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KERALA STATE POLLUTION CONTROL BOARD
കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്

Pattom P.O., Thiruvananthapuram – 695 004
പട്ടം പി.ഒ., തിരുവനന്തപുരം - 695 004

PCB/HO/SEE2/Annual Report SWM/2020-21

Dated: 06/09/2021

From

The Member Secretary

To

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

Sub: Annual report 2020-2021 on implementation of Solid Waste Management Rules, 2016-Reg

Ref: Solid Waste Management Rule 2016

Sir,

Annual Report for the year (2020-2021) as per the provision of 24 (3) of the Solid Waste Management Rules, 2016 is submitted herewith.

Yours faithfully


MEMBER SECRETARY

Encl: As above.

Copy to:

1. Regional Director, CPCB, Bangalore
2. All ROs and Dos
3. IT Cell
4. CA to Chairman
5. CA to 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 '2020 – 2021'

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	30
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: 03/09/2021 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: **30**

Number of authorizations granted: **21**

Authorizations under scrutiny: **9**

SOLID WASTE Generation status

Solid waste generation in the state (TPD): **3543 TPD**

Collected: **964.76 TPD**

Treated: **2550 TPD**

Land filled:

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

Good practices in cities/towns: 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**).

House-to-house collection:

Segregation:

Storage

Covered transportation

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); 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 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 not Identified		
2	Kollam	Work awarded		
3	Kochi	Retendering completed		
4	Munnar	Tendering		
5	Thrissur	Land identified		
6	Palakkad	Work awarded		DPR stage
7	Malappuram	Land identified		
8	Kozhikode	Work awarded – Construction to be started Clearance obtained. Power Purchase agreement will be executed		Construction to be started by August Biomining is being done
9	Sulthan Bathery	Work dropped		
10	Kannur	Work awarded		DPR stage

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: **41**

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.	Windrow composting plant, Kozhikode		Analysis Report attached as Annexure III	Analysis Report attached as Annexure III		
2.	Windrow Composting Plant, Brahmapuram		Analysis Report attached as Annexure III	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 (KSPCB) issued repeated directions to all local bodies to ensure compliance of the Solid Waste Management Rules, 2016. 3543 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	1. Ernakulam 2. Kozhikode (100TPD)
	Windrow composting plant (Small)	12	1. Attingal (13TPD) 2. North Paravur (3TPD) 3. Chalakkudy (2 TPD) 4. Kodungallur (4 TPD) 5. Kothamangalam 6. Kunnankulam 7. Guruvayoor (2 TPD) 8. Chittur -Thathamangalam (4 TPD) 9. Ottappalam (5 TPD) 10. Palakkad (4 TPD) 11. Thaliparambu 12. Payyannur
Community Level	Vermi composting plants (Small)	7	1. Attingal (0.25TPD) 2. Thodupuzha 3. North Paravur (1 TPD) 4. Chavakkad (1.5 TPD) 5. Manjeri (0.5TPD) 6. Koothuparambu 7. Mattannur (5 TPD)
	Aerobins	406	
	Biogas plants	287	
	Bobbins in flats	500+	1. Thiruvananthapuram, 2. Ernakulam, 3. Trissur
	Material Collection Facility	685	
	Resource recovery facility	77	
House hold Level	Pipe compost	1,31,559	Total- 4,32,559
	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	75,454	
Institutional level	Biogas plants, aerobins, biobins		
Rendering plant	Rendering plant	26 units	250 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

The Government of Kerala constituted a State Level Advisory Committee on Waste Management chaired by the Chief Secretary; this Committee has conducted 36 meetings, till date, for monitoring solid waste management on monthly basis. The Government has accorded sanction for establishing Waste to Energy plants in 8 cities having 1 Lakh or more population and in two local bodies having population below 1 lakh. The progress is given below:

STATUS OF SETTING UP OF WASTE to ENERGY PLANT

Sl. No.	Waste to Energy plant	Land Identified	Procured	Status	Work Initiated
1	Kozhikode Njaliyanparambu	Kozhikode corporation	(Govt. land)12.67 acre at Njaliyanparambu	1.1 Waste to Energy Plant Work awarded to Zonta Infratech Private Limited for the construction of Waste to Energy Plant at Njaliyanparambu. A company namely M/s.Malabar Waste Management Limited was formed.The Concessionaire has informed that the Financial Closure for the project has been achieved – SBI has agreed for a debt funding of Rs 146 crores. Consent to establish was issued to the waste to Energy plant.	M/s Zonta Infratech Pvt Ltd started the work of clearing of legacy waste on 3rd March, 2020. The clearing work of legacy waste resumed at the dumpsite on 4th May 2020 and 40% of legacy waste in Zone I has been removed. The work is in progress at the site.

				<p>Clearing of ground for the plant is undergoing. Land development works are undergoing. Alternate road has been constructed on the periphery and vehicles started moving through alternate roads. The main road through the Centre for the site has now been closed. Request submitted to Social Forestry department for cutting trees in the site. Laying of water supply line to the site is nearing completion.</p> <p>M/s. MITCON Consultancy and Engineering Services has been appointed as the project management consultant for the development of the project with WtoE facility at Kozhikode</p>	
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2	Kannur Chelora	Kannur Corporation	(Govt. Land) 9.7 acres at Chelora	<p>Blue Planet Kannur Waste Solutions Private Limited was formed to take up the development of the project. Waste Characterisation study was conducted by SPCB</p> <p>SLAC directed MD, KSIDC & Secretary, Kannur Municipal Corporation to take immediate steps to execute the Lease Agreement and Concession Agreement for the project.</p> <p>KSIDC has completed the tender process and the final offer along with details of the contractor, draft agreement to be executed with the Contractor and the technical proposal submitted by the Contractor has been</p>	<p>Agreement has been executed with M/s Zonta Infratech Pvt Ltd, the selected bidder on 21st October for carrying out the rehabilitation of MSW dumpsite at the site.</p> <p>Asked Secretary Kannur Municipal Corporation to take immediate steps with the Contractor to expedite the works for rehabilitation of MSW dumpsite at Chelora.</p>
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				<p>forwarded to Kannur Corporation on 07th August 2020 for further proceedings.</p> <p>KSIDC modified the Lease Deed addressing the Kannur Corporation's concern on alienation of 9.7 acres of land at Chelora. The modified lease deed was submitted to the Secretary Corporation for execution. Further a stake holder meeting was held to explain the project details to the councilors on 24th August 2020 and all concerns raised were discussed and explained. Despite all these steps, Kannur Corporation has not leased the land at Chelora to KSIDC and a council resolution authorizing the Secretary Kannur Corporation</p>	
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				<p>on to execute the concession agreement has not been passed. Concession agreement can be executed only on receiving land to KSIDC. The concessionaire has reported that the field studies including waste characterization and waste quantification studies, as part of DPR preparation will be commencing next week. Govt vide GO(Rt) No. 714/2020/LS GD dated 27-3-2020 issued direction to Kannur Municipal Corporation to hand over the 9.75 acres of the land identified at Chelora on lease basis to KSIDC for the development of Waste to Energy project and to execute</p>	
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				<p>MoU with KSIDC for clearing the existing legacy waste at dump site in Chelora.</p> <p>Detailed waste characterization of study of dumpsite at Chelora was done by the Pollution Control Board. SLAC directed the Board to submit final study</p>	
3.	Palakkad Kanjikode	Palakkad Municipality	<p>(Land taken over from Kerala State Electricity Board Ltd. in advance possession)</p> <p>15 acres at Kanjikode</p>	Blue Planet Palakkad Waste Solutions Private Limited was formed to take up the development of the project.	The Concession Agreement for the project has been executed and the Concessionaire has taken steps for preparing the DPR for the project. The Concessionaire has engaged M/s Dun & Bradstreet for preparing the DPR and that the study is in the final stages. As instructed by the Committee, modifications are incorporated in the DPR. Final DPR will be submitted by the end of February 2021.
4	Kollam Kureepuzha	Kollam Corporation	(Govt. land) 7.05 acres at kureepuzha	M/s Venad Waste Management Solutions Pvt Ltd has submitted the draft DPR for the Integrated	For biomining the site, the Corporation informed that draft agreement to be executed with M/s. Zonta Infratech Pvt Limited is vetted

				<p>Solid Waste Management project with a Wasteto Biogas facility of 200 TPD processing capacity.</p> <p>DPR was evaluated by the Committee and it has been modified and final DPR submitted to LSGD Concensionaire hastaken steps to submit applications to the concerned departments and agencies for statutory approvals and clearances.</p>	<p>by the Corporation's Standing Counsel and the same will be placed in the next Council meeting for approval.</p> <p>SLAC directed the Secretary Kollam Corporation to take necessary steps to ensure either the Contractor follow the tender conditions or cancel the present tender and go for re-tender immediately.</p> <p>Again the project has been retendered by the Corporation.</p>
5	Thiruvananthapuram Vizhinjam	Thiruvananthapuram Corporation	Land not identified	<p>KSIDC retendered the project on Swiss Challenge mode on 27th May 2020 and 30th June was the last date for the submission of bids. The pre bid meeting as part of tender procedures was held on 08th June 2020. The last date for the submission of bids was 14th July 2020. KSIDC did not receive</p>	Tendering in advanced stage

				<p>any challenging bids for the project. KSIDC directed M/s Essential Sustainability Services Incorporated to submit details regarding the technical and financial capabilities of the Consortium members and in response received certain details from them which was then evaluated. The Bid Evaluation Committee is satisfied with the technical plan presented by the consortium, and resolved that the consortium led by M/s. Pan American Communication Services S.A. is technically qualified and recommended that the financial bid submitted by the Consortium be evaluated. Bid Evaluation Committee further</p>	
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			<p>resolved that the following details shall be Obtained from Consortium before the opening of the financial bid – Testimonials of technology use, operating videos of the waste plants under this technology, Undertaking from the technology partner, Consortium members consent, analysis reports of the exhaust gas and ash. The above details were sought from the consortium and the consortium in response submitted certain details.</p> <p>Directed State Pollution Control Board to evaluate the Technical proposal submitted by the Consortium for confirming</p>	
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				the uniqueness and authenticity of the proposed technology.	
6	Ernakulam Brahmapuram	Kochi corporation	(Govt. land) 20 acres at Brahmapuram	<p>KSIDC was authorized to take immediate steps to float an RFP for the selection of suitable concessionaire to setup Waste to Energy plant at Brahmapuram. The last date for submission of bids has been extended to 14th September 2020.</p> <p>Technical bids submitted by the Bidders needs to be evaluated by the Bid Evaluation Committee and the proposal has been submitted to Government to re constitute the Bid Evaluation Committee. It was reported by LSGD that steps have been taken to re constitute the Bid Evaluation Committee</p>	<p>KSIDC floated e-tender to identify a suitable agency for the rehabilitation of MSW dump site at Brahmapuram. KSIDC submitted a proposal to constitute a Technical Evaluation Committee for technical evaluation of the bids. Evaluation of technical bid is in process.</p> <p>LSGD issued directions to Kochi Corporation to examine the quantity of legacy waste assessed and rate quoted by the bidder in consultation with PCB within 30 days</p>

				<p>and order in this regard will be issued soon. Also expressed that a restriction can be brought in the tender conditions to prevent one particular company being awarded more than 3 WtE projects on PPP mode at a particular project development time, so as to ensure more competition and also easier financial closure.</p>	
7	Idukki Munnar	Idukki Municipality	2 acres of land at munnar	<p>Evaluated the technical bid submitted by the Consortium of M/s Al Bucheeri General Transport Est, Pathanamthitta, M/s Al Bucheeri Transporting Est UAE and M/s Organic Recycling Systems Pvt Ltd, Mumbai on 19th August 2020.</p> <p>The Committee observed</p>	<p>Biomining started at Munnar Panchyath. Macro particles like plastic, tyres, metal particles etc already finished with the help of JCB. Action for installing machinery for further process is going on for turning it into briquets for construction purpose</p>

				that the Consortium is meeting the technical and financial minimum eligibility criteria. The consortium made a detailed presentation of their technical plan before the Bid Evaluation Committee. SLAC after detailed discussion resolved to accord sanction to proceed with the Financial evaluation of the Bid	
8	Wayanad Sulthan Bathery	Wayanad Municipality	0.5 acres at Sulthan Bathery	Work dropped	
9	Thrissur	Thrissur corporation	Identified land at Ollookkara village	Thrissur Corporation identified land at Ollookkara village in Thrissur district. Vide GO (Rt) No 111/2020 /LSGD dated 13/01/2020 State Government has accorded sanction to Thrissur Municipal Corporation to purchase the identified land at	Proposal submitted to Suchitwamission for sanction

				<p>Ollookkara Village in Thrissur district and to hand over the same on lease basis to KSIDC for the development of the project</p> <p>Secretary, Thrissur Municipal Corporation to report the status of price negotiation done with the owners of the land identified.</p>	
10	Malappuram	Malappuram municipality	8.09 acres of land at Kurumbathoor village in Tirur Taluk	KSIDC reported that Land Board has issued orders to District Administration Malappuram to handover 8.09 acres of land at Kurumbathoor village in Tirur Taluk to KSIDC .	KSIDC has submitted necessary application in prescribed format to District Administration. SLAC directed to expedite the process.

The progress achieved is as follows:

- Setting of Waste to energy plants at 10 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.

- For **Regional Sanitary Landfill**, land (25 acre) has been identified at site of FACT at Ambalamedu, Ernakulam and action is being taken for take over.
- **Biomining** started at Njalianparmbu dumpsite and work awarded at Kureepuzha Kollam. Tendering stage at Kottayam, Bhramapuam, Chelora. Out of the 41 dumpsites, drone survey to be done in 10 large dumpsite and total station survey in remaining dumpsites.

Annexure - IA
DUMPSITES IN KERALA AS ON MARCH 2021

Major Dumpsites locations			
Sl. No:	Location	District	Status
1	Vilappilshala	Thiruvanthapuram	
2	Kureepuzha	Kollam	M/s. Zigma Global Environ Solution Pvt. Ltd. started biomining
3	KottayamVadavathoor	Kottayam	Tendering in progress forthe disposal of non biodegradable waste
4	Sarvodayapuram	Alappuzha	Action being taken.
5	Brahmapuram	Ernakulam	Bidder has been identified and action is being taken to award the work to successful bidder. Drone survey has been done to quantify the dumpsite.
6	Laloor	Thrissur	Some area is reclaimedand construction of stadium is progressing and remaining area is taken up for biominingwith Clean Kerala mission and KIEL. Proposal under consideration of Suchitwa Mission.

Sl. No:	Location	District	Status
7	BPL Koottupatha, Palakkad	Palakkad	Under Consideration
8	Njeliyamparambu, Calicut	Kozhikode	<p>M/s Zonta Infratech Pvt Ltd started the work of clearing of legacy waste on 3rd March, 2020.</p> <p>The clearing work of legacy waste resumed at the dumpsite on 4th May 2020 and approximately 15000 cum of legacy waste was cleared from the project site as on 12th May 2020. Some disruption due to Covid and Monsoon. Machineries have been installed and resumed clearing of dumpsites.</p>
9	Chelora	Kannur	Work awarded to Zonta Infratech Private Limited. Corporation directed contractor to expedite the work.
10	Thalassery	Kannur	-

Other Dumpsite locations			
Sl. No:	Location	District	Status
1	Attingal	Thiruvanthapuram	Tendering process
3	Palayam	Thiruvanthapuram	Clearing is in an advanced stage
4	Varkala	Thiruvanthapuram	Clearing going
5	Changanassery, Fathimapuram	Kottayam	Project worth 13.5 Lakh completed. 20 lakh project to be implemented soon. Project for bioremediation and under consideration in Suchitwa Mission.
6	Erattupetta- Thevarrupara	Kottayam	Planned a proposal with Suchitwa mission, Kerala. Project taken by DPC
7	Mundakkayam - Vettukallamkuzhy	Kottayam	-
9	Kattapana-Vandenmedu	Idukki	-
10	Thodupuzha	Idukki	-
11	Munnar	Idukki	Tendering in Progress
12	Kalamassery	Ernakulam	-
13	Kothamangalam	Ernakulam	-
14	Moovattupuzha	Ernakulam	-

Sl. No:	Location	District	Status
15	North Paravoor	Ernakulam	Central Financial grant 25 Lakhs to disposal of legacy waste.
16	Chavakkad	Thrissur	-
17	Chalakkudy	Thrissur	50 cents reclaimed
18	Irijalakuda-Kuthuparamba	Thrissur	Some area is reclaimed and construction of windrow compost plant is going on.
19	Kunnamkulam		One acre reclaimed
20	Kumblagad, Wadakkancherry	Thrissur	Biomining project for this site is undertaken as part of SBM Urban DPR. A DPC project on the same is also approved for 30 lakhs
21	Ottapalam	Palakkad	-
22	Karathodu-Puliyettummal	Malappuram	-
23	Manjeri	Malappuram	SEUF is entrusted to prepare DPR
24	Thirur – Pottilathara Trenching ground	Malappuram	-
25	Vadakara, Puthiyapp	Kozhikode	Capping done over a part of legacy waste
26	Kalpetta	Wayanad	-

Sl. No:	Location	District	Status
27	Sulthan bathery, Karuvallikunnu	Wayanad	-
28	Koothuparamba	Kannur	-
29	Payyannur	Kannur	-
30	Kanjangad, Chemmatam vayal	Kasargod	-
31	Vidyanager, Kasargod	Kasargod	-

ANNEXURE II (URBAN LOCAL BODY)

Sl.No	Corporation /Municipality	District	Name of the City/Town	Population as per 2011 Census	Projected population (2021)	Quantity of Waste generated based on population	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	Centralised	Non-Bio Degradable Waste Management	Site identified for Sanitary land fill	Dump sites identified	Authorization Applied	Authorization granted
1	Corporation	Thiruvanthapuram	Thiruvanthapuram Corporation	958000	996204	448	19.4	90	25	Not properly documented and submitted	242.23	222	De centralized units	Biobin 109 of 15 TPD	Biogas Plant - 18 Nos of 18.4TPD Aerobin (Thumboornuzhi model) - 53 Nos having 12 TPD	Pipe compost- 87000 Nos., (50,000 working) of 43.5TPD Kitchen Bin- 19000 Biocom poster-15833 Biogas plant- 3982 Nos of 2.39TPD; other units- 109	Land identified for the solid waste processing plant for setting up the plant at Vizhinjam. The approval of the Board of VISL is to be obtained by the Board for the transfer of 15 acres of land on lease to KSIDC. The Board approval is to be communicated to the Port Department to issue necessary orders. KSIDC awarded the project on Swiss challenge on 27-5-2020 and prebid meeting on 8-6-2020. No challenging bids received on 14-7-2020. KSIDC directed Essential Sustainability Services to submit the technical and financial capabilities of the consortium members. The bid evaluation committee resolved that M/s. Pan American Communication Services is technically qualified and also sought to furnish some more details from the consortium before opening the technical bid and submitted certain details.	Material Collection Facility in 54 locations Resource Recovery Unit - 4 numbers	Regional landfill site identified at Kochi	3 (Of which one dumpsite cleared)	Yes	Under processing
2		Kollam	Kollam Corporation	397000	412832	186	83	70	124 (HKS)	10.5	50.32	50.32	De centralized units	Not reported	13 biogas plants of 5.6TPD; 13 aerobins of 3.9 TPD	Biogas plant- 1273 Nos. (working) of 2.5 TPD; Pipe compost - 462 (working) of 1 TPD; 720 biocomposter, biopot of 1.5 TPD	M/s. Venad Waste Management Solutions Pvt Limited has submitted the draft DPR for the integrated solid waste management with a waste to biogas facility of 200TPD. DPR was evaluated by the Committee and its has been modified and final DPR submitted to LSGD. Concessionaire has taken steps to submit applications to the concerned departments and agencies for statutory approvals and clearances.	MCF-7; RRF-1; Mini MCF-185	Regional landfill site identified at Kochi	Zigma solutions have been selected for carrying out biomining and they have started the work	Yes	Yes
3		Ernakulam	Kochi Corporation	677000	703999	317	89.8	59.8	1200	308	215	304	Centralized treatment - Windrow composting at Brahmapuram	Not reported	Nil	Biogas plant- 60 Compost pits- 1212	Windrow compost plant at Brahmapuram and retendering for the selection of proponent	MCF- 8, RRF-5	Regional landfill site identified at Kochi	1(Retendering of biomining of dumpsite at Brahmapuram)	Yes	Under processing
4		Thrissur	Thrissur Corporation	315957	330189	177	100	70	145		97	97	Decentralised units	Total quantity of biodegradable managed- 6.71TPD Non biodegradable 0.7TPD Non biodegradable 0.7TPD	Organic Waste Converter-2 Nos of 4TPD and 8TPD Biogas plant- 9	Biogas plant- 632; Compost pit- 20118; 50 pit- 20118; 50 biocomposter, biobin and four other units	Thrissur Corporation identified land at Ollokkara village in Thrissur district. Vide GO (Rt) No 111/2020/LSGD dated 13/01/2020 State Government has accorded sanction to Thrissur Municipal Corporation to purchase the identified land at Ollokkara 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-8 Resource recovery facility-3	Regional landfill site identified at Kochi	1 (Laloor)	No	No
5		Kozhikode	Kozhikode Corporation	550000	571934	257	49.72	95	645	98	95	140	Non- biodegradable- 0.75TPD	Biogas plant at public utility place- 4Nos Aerobins-28	Biogas-261 Pipe compost-10250	Windrow Composting. Work awarded to Zonta Infratech Private Limited for the construction of Waste to Energy Plant at Njaliyan parambu. A company namely M/s.Malabar Waste Management The company obtained NOC from State Environmental Impact Assessment Authority. Suchitwa Mission submitted the proposal to Ministry of Housing and Urban Affairs for approval of their share in the VGF for the project.Limited was formed and they applied for registration in Kerala Single Window Clearance Portal (KSWIFT) and to individual departments for clearance. Clarification on the points was called for by the Ministry and the same is being processed.	MCF-12;RRRF-2	Regional landfill site identified at Kochi	1(Njaliyanparambu) Biomining started	Yes	Yes	

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6		Kannur	Kannur Corporation	2,32,486	370197	167	63.5	89.3	44	85	75	70	Land Filling	Not reported	Trenching Biomehanati on of 0.25 TPD	Kitchen bin- 102 Biogas - 40(working) Pipe Compost 1682(working)	M/s Organic Recycling Systems Private Limited and M/s. Blue Planet Environment Solutions India Limited have completed the incorporation of SPVs in the name of Blue Planet Kannur Waste Consortium has selected agency for the preparation of DPR, waste quantification and characteristic study in Kannur district and the agency could not commence due to lock down announced in connection with Covid 19 pandemic. Govt vide GO(Rt) No.Solutions Private Limited to take up the development of the project.714/2020/LSGD dated 27-3- 2020 issued direction to Kannur Municipal Corporation to hand over the lease basis to KSIDC for the development of Waste to Energy project and to execute MoU with KSIDC for clearing the existing legacy waste at dump site in Chelora.	MCF-2; RRF-1	Regional landfill site identified at Kochi	1(Chelora)MoU with KSIDC for clearing the existing legacy waste at dump site in Chelora	Yes	Under processing
7	MUNICIPALITIES	Thiruvananthapuram	Attingal	37648	39150	16	48.5	100	44	16	16	16	Centralised and decentralised systems	Biogas Plant(Dheebanabandhu) 6 Nos with capacity of 1TPD Biogas plant (Portable) 5 Nos with capacity of 107.5	Windrow composting plant of 13TPD, Biogas Plant 6 Nos - 3.25 TPD Vermi Compost 1 No with capacity of 0.25 TPD	Biogas Plant 407 Nos - 0.85TPD	Windrow composting plant, vermicomposting plant, and biogas plant	MCF-1; RRF-1	Yes	1	Yes	Under processing
8			Nedumangad	60161	62561	25	6.2	62.5	88		2.8	2.8	Decentralised treatment units	Not given	37 biogas plants	2700 pipe compost; 2617 kitchen bin; 163 biogas plant-working; 15 ring composts	Nil	MCF-1; RRF-1	Yes	1	Yes	Under processing
9			Neyyattinkara	70850	73676	29	48	18.3	22	3	3	10	Decentralised treatment	Boiogas plant-20	Aerobins 21 Biogas plant - 10	Biogas plant- 104 Compost pit- 14360	Nil	MCF- 1	At regional level	Nil	No	No
10			Varkala	40048	41646	17	51	96	18	4.8	4.8	9	Decentralised treatment	500 ring omposts; 180 pipe compost; 82 compost pits	Biogas Plant - 1 No - 100Kg		Nil	MCF-3; RRF-1	At regional level	Yes -one	Yes	Yes
11	MUNICIPALITIES	Kollam	Paravur (South)	37189	43023	17	1	0	35	1.5 tons	1.5 tons	1.5 tons	55 biogas plants; 300 pipe compost	Nil	Aerobic bin compost units	Biocomposter bin (Kitchen bin)		1 MCF, 1 RRF, Plastic shredding unit and bailing unit	No	No	Yes	Yes
12			Karunagapally	47483	51420	21	29	22	32	6.5 tons	6.5 tons	6.5 tons	For Biodegradable waste treated in Houshold using pot compost and ring compost Non degradable waste treated using 1 MCF 1 RRF and 1 mini MCF	Nil	Nil	pipe compost-600 ring compost-5000 pot compost 70 biogas plant -26	Nil	1 MCF 1RRF 1Mini MCF plastic Shredding unit and bailing unit	No	No		
13			Punalur	46702	46702	19	90	80	127	3.5	3.5	10.5	For biodegradable waste aerobic bin compost units at community level and pipe compost at household level . 200mini MCF , 1RRF plastic shredding for processing non bio degradable waste.Door to door collection through harithakarmasena and given to clean kerala company and a private company(Agri tech Green Technoogies, Pathanapuram)	Nil	Aerobic bin compost units	Pipe compost 5000 unts(2 pipes / unit) ; 1250 biogas plants	Nil	200 mini MCF, 1 RRF, Plastic shredding unit	No	No	Yes	NA

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14			Kottarakara	30055	42050	17	66	20	58	1 ton	7.25	7.25	For biodegradable waste aerobic bin compost units at community level and biocomposter bins at household level . 1 MCF , 1RRF plastic shredding and bailing units for processing non bio degradable waste.Door to door collection through harithakarmasena and given to clean kerala company	nil	Aerobic bin compost units	Bucket compost,Biobin,Biogas plant		1 MCF, 1 RRF, Plastic shredding unit and bailing unit	No	No	yes	
15	MUNICIPALITIES	Pathanamthitta	Adoor	29143	30921	12	0	4	4			6.3	Bio composting(community level) ,bio bin,biodigester pot,Biogas plant(Domestic level)	Thumpurmoozhy 10 unit(21 bins)	0	1210 pipe compost,326 Ring compost,105 biobin	0	1 MCF	NA	Nil	NA	NA
16			Pandalam	42793	49099	20	72	28	16+1 (1 agency)	1.5	1.5		Decentralised treatment	0.89TPD of waste is managed	Compost bins - 2650	Nil	Not given	At regional level	Nil	no	NO	No
17			Pathanamthitta	37545	39500	16	41	95		6	6	6	Community level, Household level	0.92TPD of biodegradable waste and 0.35TPD of non biodegradable waste managed	Biogas Plant - 2 Nos Aerobin-5	Biogas plant - 400 Compost pits- 520	Nil	MCF-3; RRF-1	At regional level	Nil	Yes	Under processing
18			Thiruvalla	52883	54992	22	60	0	55		1.4	12	Decentralised treatment	4.79TPD of biodegradable waste and 1.5TPD of non biodegradable waste	Biogas Plant -2 with capacity of 350 kg Biogas Plant - 1 with capacity of 750Kg	Biogas Plant - 170Nos Pipe Compost 2360 Nos	Nil	MCF-1	At regional level	Nil	No	No
19	MUNICIPALITIES	Alappuzha	Alappuzha	174176	241219	96	95	80	76	46	36		Aerobic composting Plastic Shredding	Not given	Aerobic Compost (Thumboormuzhi Model) - 29 units	Biogas Plant - 1964 Nos.Pipe compost- 1263 Nos. Biobin- 6000 Nos	0	MCF 23; RRF-3 ;Plastic Shredding unit 3 units	Yes	Nil	Yes	
20			Chengannur	23456	24393	10	11.12	60	25	0.5	0.85	3	Decentralised treatment	Not given	Aerobic Compost (Thumboormuzhi Model) - 12 bins at 1 location		Nil	MCF-1	At regional level	Nil	Yes	Under processing
21			Cherthala	45827	47658	19	73.76	80	35	0.6	0.6	6	Decentralised treatment	Not given	Aerobic Compost (Thumboormuzhi Model) - 26 bins at 2 locations	Composting units-90 Biogas plant- 350 Compost pits- 850	Nil	MCF-1 RRF - 1	At regional level	Nil	yes	Under processing
22			Haripad	15588	16211	6	88	6	30	1	1	5	Decentralised treatment	2.02TPD is managed	Aerobic unit - 5	Composting units-783 Biogas plants- 87 Compost pits- 1579	Nil	Plastic Shredding Machine - 1 Number	At regional level	Nil	Yes	Under processing
23			Kayamkulam	68634	75861	30	65	45	9	5	3		Aerobic Compost	0.06 TPD is managed	Biogas Plant Aerobic compost (Thumboormuzhi Model 4 bin) Location with capacity of 24 kg/day	Composting unit-1431 Biogas plant- 364 Compost pits- 4450 Pipe Compost 1950	Nil	MCF-1 RRF - 1	At regional level	Nil	Yes	Under processing
24			Mavelikara	264121	27516	11	80	25	30	3.2	2.5		Composting	Not given	Aerobic Compost (Thumboormuzhi Model) - 12 bins at 1 location with capacity of 10kg/day	Biogas plant- 242 Pipe Compost 165	Nil	MCF-1 RRF - 1	At regional level	Nil	Yes	Under processing
25	MUNICIPALITIES	Kottayam	Changanassery	127987	133102	53	0	50	Haritha Karma Sena		3	20	Decentralised treatment	Not given	Aerobins -36 treating 2TPD	8800 Ring compost 1800 Biobin unit included in 2019-20 project and is under process	Nil	MCF-1 RRF - 1	At regional level	1	No	No
26			Erattupetta	34814	40000	16	70	100	56	3	3	3	Aerobic composting	Not given	Aerobic composting (Thumboormuzhi mode) - 24 bins Biogas plant: 28 nos	750 biobin included in 2019-20 project and will supply from march 2020	Nil	MCF-1 RRF - 1	At regional level	1	No	No

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27			Ettumanoor	26423	27479	11	10	56.9	62			4	Decentralised treatment	Not given	Biogas Plant at location with capacity of 500kg	Ring Compost - 450 Nos Bucket Compost-150 Nos	Nil	MCF-1 RRF - 1	At regional level	Nil	No	No
28			Kottayam	137812	172365	69	80	15	104	30	4.5	5	Aerobic Compost	Not given	Aerobic Compost (Thumboorm uzhi Model)- 62 Biogas Plant - 52	Biogas plant - 1400 Nos Pipe Compost- 2300 Nos	Nil	MCF-1 RRF - 1	At regional level	1 (Vadavathoor)	No	No
29			Pala	123000	127915	51	34	94	14	2	7	26	Decentralised treatment	Not given	Aerobic Compost (Thumboorm uzhi Model) - 6 bins at 1 location with capacity of 30kg Biogas Plant - 1 location with capacity 100 Kg	Compost - 26 Nos Biodigester Pot - 4 Nos Ring Compost - 59 Nos Bucket Compost - 170 Nos Pipe Compost 5162 Nos	Nil	MCF-1	At regional level	Nil	No	No
30			Vaikom	23234	24162	10	0	0	64			3	Decentralised treatment	Aerobic composting (Thumboorm uzhi mode) - 4 bins at 2 locations Biogas Plant - 1 bin at 1 location	Aerobic composting (Thumboorm uzhi mode) - 3 bins at 1 location	Biogas Plant - 135	Nil	MCF-1	At regional level	Nil	No	No
31	MUNICIPALITY	Idukki	Kattapana	42646	44350	18	79.4	100	81	3.24	3.24	11	Decentralised treatment	Not given	Not given	Composting unit-1505 Biogas plants- 345 Compost pit- 450	Nil	MCF- 1 Nos RRF- 1	At regional level	Nil	No	No
32			Thodupuzha	52025	62000	25	80	0	82		N		Not given	Not given	Vermi compost - 7bin at 1 location	Biogas Plant - 928	Nil	MCF- 2 RRF 1	At regional level	Nil	No	No
33	MUNICIPALITY	Ernakulam	Aluva	22428	23312	9	43	24		7.05	6.14	NA	NA	0	Centralised plant at Brahmapuram	Pipe compost - 43 Kitchen bin - 10	Centralised plant at Brahmapuram	RRF - 1	At regional level	Nil	No	No
34			Angamaly	33465	34802	14	0		Nil	0.5	0	4	Decentralised treatment	Aerobins-2	Biogas plant - 1No	Pipe compost - 979 Biogas - 504 Nos		RRF-2Nos; MCF-1:Biodigester bins-300Nos SWAP shop-1 No.	At regional level	Nil	No	No
35			Eloor	31468	32726	13	0		81	0.87	0.87	5	Decentralised treatment	Biogas Plant - Hospitals, Hotels, TCC, Canteen	Aerobic Compost (Thumboorm uzhi Model) 4 bins at 4 locations with capacity 1TPD	Biogas Plant - 310 Nos Biodigester Pot - 350 Nos	Nil	MCF-1	At regional level	Nil	No	No
36			Kalamassery	71038	73877	30	42.3	40	19	Not given	Not given	9	Centralised treatment	Not given	Centralised plant at Brahmapura	Compost pit-800, Biogas plant-9	Centralised plant at Brahmapuram	MCF-1;MRF-1	regional level	1	No	No
37			Koothattukulam	17253	18659	7	0.1	10	19	1	1	1	Decentralised treatment	Not given	Biogas Plant - 1 No with capacity 150kg	Biogas 16	Nil	Nil	At regional level	Nil	No	No
38			Kothamangalam	114574	119153	48	3.8	10	2	6	6	14	Decentralised treatment	Not given	Windrow compost plant	Kitchen bin 10000 Biogas plant- 202 Compost pit- 2303	Nil	MCF-1; MRF-1	At regional level	1	No	No
39			Maradu	44704	46490	19	12.2	6.8		0	0	6	Centralised treatment	Not given	Not given	Bucket Compost - 2330 Nos Pipe Compost 940 Nos	Centralised plant at Brahmapuram	MCF-4; RRF-1	At regional level	Nil	No	No
40			Muvattupuzha	30397	31612	13	68	35	Nil			7	Decentralised treatment	Not given	Composting - 5 bins at 1 location (not working)	Kitchen bin 24	Nil	MCF-1	At regional level	1	No	No
41			North Paravur	31503	32762	13	68	79	Not given	2	2	7	Decentralised treatment	Aerobic composting (Thumboorm uzhi model) -1 bin at 1 location with capacity 4 Cubic (Not Operating)	Biogas Plant - 1 bin with capacity 100kg (not working) Vermi Compost - 1 bin with capacity 1 TPD Windrow Compost - bin with 3 TPD Capacity	Pipe compost - 2500 Nos Biogas Plant - 25 Nos	Nil	MCF-1; RRF-1	At regional level	1	No	No
42			Perumbavoor	28110	29233	12	0	0		2.32	1	8	Decentralised treatment	0.75 TPD of non of biodegradable waste is managed	Bio-gas, aerobic compost, MRF	Ring Compost - 1000 Nos Biogas Plant - 161 Nos Biodigester Pot - 1500 Pot compost- 894	Nil	MCF-1; RRF-1	At regional level	Nil	No	No
43			Piravam	29105	32015	13	40.7	47.2	66	2.04	2.04	5	Decentralised treatment	Not given	Not given	Biogas -150 Pipe compost- 874	Nil	MCF-1; RRF-1	At regional level	Nil	No	No
44			Thrikkakkara	77319	80409	32	100	71	12	7	7	10	Centralized treatment	Not given	Not given	Biogas 31	Centralised plant at Brahmapuram	Nil	regional level	Nil	No	No

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45			Thripunithura	92522	96219	38	87.1	85.9	64	Not given	Not given	14	Decentralised treatment	Aerobic composting (Thumboormuzhi model) - 2 bins at 2 locations with capacity 14 units & 18 units. Biogas plant - 1no with100 kg capacity	1.62TPD of biodegradable waste is managed 0.124 non biodegradable waste is managed. Thumbur muzhi model at Anapparambu -41 ward	Biogas Plant - 300 Nos Biodigester Pot - 125 Nos Bucket Compost - 2400 Nos Pipe Compost 10000 Nos	Centralised plant at Brahmapuram	Material Collection Facility - 1 No (Non Operation)Plastic Shredding Machine - 1 No Baling Machine - 1 No	At regional level	Nil	No	No	
46	MUNICIPALITY	Thrissur	Chalakkudy	49525	51504	21	100	100	54	7.31tpd	7.31tpd	10	Decentralised treatment	Plants(50kg capacity) 5 SWM	Thumbur muzhi model at Anapparambu (41 ward) Vermicomposting Biogas - 3(33kg/day)	Plants(207.5 kg capacity) 83 SWM	Windrow composting (2tpd)	MRF-1; RRF-1	At regional level		yes	yes	
47			Chavakkad	39098	40660	16	36.2	51	31	4	Not given	14	Decentralised treatment	Not given	Vermi composting 1.5TPD	Pot Compost - 548 Nos Biogas Plant - 614 Nos	Nil	MCF-1; RRF-1	At regional level	1	No	No	
48			Guruvayur	70012	72810	29	24.5	100	58	4	4	15	Decentralised treatment	Biogas Plant(3.5tpd)	Bio organic management	Biogas Plant- 400 Composting units-2545 Compost pits- 1899 Kitchen Gardening	Windrow Compost (2TPD),	MCF-1; RRF-1	At regional level	Nil	No	No	
49			Irinjalakuda	62532	67542	27	48	86	130	4TPD	3TPD		Shredding Unit	17Aerobic Bin in Hill Park,Municipal office,Park	2Biogas Plant-Main Market,Evening Market	3471 Nos(Ring Compost 1865,Kitchen Bin 906,Biogas 700)	1	Segregated Non Bio waste Collected through Harithakarmasena and it transported to MCF and Stored in RRF after Shredding .It hand over to Clean Kerala Company	At regional level	1	no	No	
50			Kodungallur	71440	85150	34	75	48	84	4 TPD	3TPD		Composting Shredding	20 Aerobic bins	20 Aerobic bins	Aerobic Compost (Thumbur muzhi Model)-6 bins at 3 locations with capacity of 10 kg/day	1	Segregated Non biodegradable waste collected through Haritha karmasena and it is forwarded to MCFand RRF.SCrapp hand over to scrap dealers and rejects handover to Clean Kerala LTD	NIL	NIL	Yes	NO	
51			Kunnamkulam	54071	56232	22	100	100	56	3	3	10	Decentralised treatment	Aerobic compost (Thumbur Mozhi model)	composting plant 1.889 TPDbiodegradable waste managed, 0.81 TPD Non biodegradable waste managed	Bio bin -1628 Nos Biogas-73, Compost pits- 2906, Compost unit- 508	Windrow Composting Plant- 4.5 TPD; 5 Acres of land is available with the local bodies for waste processing.	MCF-1; RRF-1	At regional level	Nil	No	No	
52			Vadakkanchery	15674	16300	7	34.3	100	40	1.6	Nil	9	Decentralised treatment	1.93TPD waste managed(Bio&Nonbiodegradable)	Not Given	Compost units- 1918, Biogas-100,Compost pits-4471	Nil	MCF-2; RRF-1	At regional level	1	No	No	
53	MUNICIPALITY	Palakkad	Cheruplassery	30730	31958	13	60	77	22	HKS	0.2	1.2	4	Decentralised treatment	0.427 TPD Non biodegradable waste managed.	1.43 TPD Nonbiodegradable waste managed.	Pipe Compost 1000 Nos Biogas Plant - 200 Nos Composting units-1050	Nil	MCF-1; RRF-1	At regional level	Nil	Yes	Under processing
54			Chittur-Thattamangalam	33000	34319	14	51.7	11.6	56	Nos	2		Decentralised treatment	bins at 5 locations	Not given	Ring Compost - 239 Nos Composting units-1407	Aerobic Windrow Composting Plant -1 bin with capacity 3 Tons/day	MCF-7; RRF-1	At regional level	Nil	Yes	Under processing	
55			Mannarkadu	39463	41040	16		83.7	58			0	6	Decentralised treatment	Not given	Not given	Pipe compost- 40; biogas plant -20; Biocomposter- 315	Nil	MCF-1	At regional level	Nil	No	No
56			Ottapalam	53792	55942	22	57.7	50.3	56	1.4		8	Decentralised treatment	Not given	Not given	Biogas plant- 58 Pipe compost 182	Windrow compost	MCF-1; RRF-1	At regional level	1	No	No	
57			Palakkad	131000	136235	54	40.1	10.6	156	0.2	1	29	Decentralised treatment	Not given	Biogas plant - 1	Pipe compost- 2500; Ring compost-60	Windrow composting is in operation. 15 Acres of land is available at Kanjikode for setting up solid waste processing plant. Tendering process is going on. As per annual report 2.1 Hectre of land is available.	MCF-7; RRF-1	At regional level	1(BPL) Koottupatha)	Yes	Under processing	

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58			Pattambi	28632	29776	12	0	60	20	1		3	Decentralised treatment	Not given	Open composting in trench	Biogas plant- 69	Nil	MCF-1; RRF-1	At regional level	Nil	Yes	Under processing
59			Shornur	43533	45273	18	100	81.8	65	4.5	2.8	6	Decentralised treatment	Not given	Biobin	Biogas 276	Nil	MCF-1; RRF-1	At regional level	Nil	No	No
60	MUNICIPALITY	Malappuram	Kondotty	28794	29945	12	79.7	60	160	0.12	0.12	4	Decentralised treatment	Not given	Not given	Pipe compost- 420; Biogas plant-18(45kg/day); Ring compost- 123	Nil	MCF-1	At regional level	Nil	No	No
61			Kottakkal	48640	57430	23	35	20	15	1.1	1.1	1.1	Segregation	Nil	Nil	Bio Bin and Bio Gas	Nil		Nil	Nil	Nil	Nil
62			Malappuram	68088	79645	32	45	15	24	20	10	10	YES	NIL	NIL	.Biogas plant,Bio bin,Bucket compst	nil	.HKS	Nil	Nil	Nil	nil
63			Manjeri	97102	112000	45	30	43.7	16	30	100		Bio degradable = Bio Bin , Pipe Compost Pig Farms no Bio degradable Segregation and Transfer to Recycling Plants using 4 MCF and 1 RRF	Nil	Nil	Bio bin And Pipe Compost	Nil	4 MCF and 1 RRF	Nil	Nil	Nil	Nil
64			Nilambur	46366	48219	19	0		29	0.3	0.3	8	Decentralised treatment	Not given	Not given	Biogas Plant - 71 Nos. Pipe compost-135; Biocomposter- 75	Nil	Temporay	At regional level	Nil	No	No
65			Parappanangadi	71239	79888	32	98	80	90	0.5	0.5	20	Ring compost,kitchen bin,pipe compost,biogas,bio pot, MCF,MINI MCF, Non bio degradable send for recycling	bio gas plant,ring compost	composting	Ring compost,kitchen bin,pipe compost,biogas,bio pot, MCF,MINI MCF, Non bio degradable send for recycling	nil	collecting through Harithakarma sena,send for recycling to clean kerala co.	na	na	no	na
66			Perinthalmanna	49723	55290	22	35	40	52	10	10	10	MCF,MRF,Vermi composting,Wintro composting,Bio gas plant,Bio bin	nil	MCF,BIO GAS	BIO BIN,BIO GAS	NILL	Collecting through Harithakarma sena	na	na	yes	no
67			Ponnani	90491	93370	37	48	52	49	0.5	0.5	22.5	composting Bio gas plants Aerobic units Bottle booths MCFs, Mini MCFs RRF	28 Aerobic units	MCF and RRF	Composting & Bins Bio gas plants	Nil	1RRF,2MCFs 6Mini MCF Bottle booths Plastic bailing	0	0	No	NA
68			Thanoor	69534	77053	31	52	20		0.5	0.5	21.5	Ring Compost, MCF	Nil	MCF	Ring Compost	Nil	Collecting through Haritha karmasena send for recycling to clean kerala company	0	0	0	NA
69			Thiroorangi	56632	63220	25	30	10	28	0.25	0.25	14	Ring compost,kitchen bin,pipe compost,biogas,, MCF,MINI MCF, Non bio degradable send for recycling	Biogas plant	Composting	Ring compost,kitchen bin,pipe compost,biogas, MCF,MINI MCF, Non bio degradable send for recycling	no	collecting through Harithakarma sena,send for recycling to private agency on agreement basis	0	0	Yes	Pending before KSPCB
70			Tirur	56058	62173	25	80	100	38	4	4	4	Bio degradable waste-bio methenation & composting,Non bio degradable -send for recycling through forward linking agency.	bio gas plant	composting	composting & bio methenation units	1 with 90 ton capacity	send for recycling through for word linking agency	na	na	na	na
71			Valanchery	40318	45306	18	0	0	13	1	1	1	biogas plant ring compost bio bin house hold level	bio gas	nil	biobin, ring compost,biogas plant	nil	HKS	nil	nil	yes	nil
72	MUNICIPALITY	Kozhikode	Faroke	57074	60000	24	63.5	4	18	4tpd	4tpd	4tpd	various Composting methods	Nil	Thumbur Muzhi	Biobin, Ring Compost, Biogas plant, Pipe compost	Thumbur Muzhi	Collection and Segregation and legacy waste hand over to clean kerala	No	No	No	No
73			Koduvally	48678	50623	20	0		72 (Haritha Karma Sena)	0.6	0.6	7	Decentralised treatment	Not given	Not given	Not given	Nil	MCF-1	At regional level	Nil	Yes	Under processing
74			Koyilandy	71873	74745	30	59.7	7.9	100	10	2.5	11	Decentralised treatment	Not given	1. Thumbur muzhi model composting - 11 unit 2. biogas plant - 500 kg per day	1. Portable biogas 250 nos; 2. pipe, ring; and vermicompost -1933 nos	Nil	MCF-2 MRF-1; Plastic shredding machine -2 bailing machine-1	At regional level	Nil	No	No
75			Mukkam	40670	42295	17	62.45	55.41	38	3.5	0		BIOGAS, RING COMPOST, AEROBIC PLANT	AEROBIC	AEROBIC	BIOGAS, RING COMPOST,	NA	NA	NIL	NIL	YES	

Sl.No	Corporation /Municipality	District	Name of the City/Town	Population as per 2011 Census	Projected population (2021)	Quantity of Waste generated based on population	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	Centralised	Non-Bio Degradable Waste Management	Site identified for Sanitary land fill	Dump sites identified	Authorization Applied	Authorization granted	
76			Payyoli	23576	24518	10	0		Nil	0.25	0.25	3	Decentralised treatment	Not given	Not given	Pipe compost 100;Kitchen bin 300	Nil	Not given	At regional level	Nil	No	No	
77			Ramanattukara	35937	37373	15	0		Nil	0.01	0.2	4	Decentralised treatment	Not given	Not given	Ring Compost- 320 Nos	Nil	Not given	At regional level	Nil	No	No	
78			Vadakara	75295	77325	31	72	60	63	7	7	7	Biogas plant, biobin, pipe compost, ring compost, bucket compost, aerobic compost	Thumburmuzhi	Thumboormuzhi	Biogas plant, biobin, pipe compost, ring compost, bucket compost	NA	YES	NIL	NIL	YES	NIL	
79	MUNCIPALITI	Wayanad	Kalpetta	31580	32842	13	26.6	81.5	32	6	6	4	Decentralised treatment	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	
80			Mananthavady	59497	62450	25	40	47	26		.5TPD		BUCKET COMPOST,BIOGAS,PTT COMPOST.	NIL	NIL	NIL	NIL	Not given	NIL	YES	NIL	NIL	
81			Sulthanbathery	23333	24265	10	0	0	23	0.5	9.1	14	Decentralised treatment		Not given	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	No	No	
82	MUNCIPALITI	Kannur	Anthoor	28212	32693	13	11	0	28	9 TPD	9 TPD		plastic shruing and bailing 1MCF,1 RRF thumboormuzhi	collectors school bin		0	ring compost BIOGAS KITCHEN BIN	0	0	nil	nil	NIL	NIL
83			Iritty	40369	48501	19	65	30.71	40	2.5	2.35	0	windrow compost	collectors school bin	mcf		ring compost		0	nil	nil	yes	not granted
84			Koothuparambu	32404	38000	15	100	90	64	2 TPD	2 TPD	2 TPD	COMPOSTING & BAILING	1		0	0	0	0	NIL	NIL	NIL	NIL
85			Mattanur	47078	60000	24	90	90	39	5	5	5	windrow compost unit,plastic shruing and bailing	collectors @school bin	Mini M C F in all wards	pipe compost,ring compost,vermi,biogas	windrow compost unit,plastic shruing and bailing	plastic shruing and bailing	NIL	NIL	NO	NOT GRANTED	
86			Panoor	58916	68751	28	51.5	25.7	52	0.1	0	0	NA	NA	NA	950 RING COMPOST, 190 KITCHEN BIN	NIL	NIL	nil	nil	NO	NA	
87			Payyanur	72131	90684	36	80	20	44	4.2	4.2		Bailing ,Shredding and Thumboormuzhi composting	NA	NIL	Ring compost, Biogas plant, Kitchen bin	1 MCF, RRF, Thumboormuzhi	Bailing & Shredding	nil	nil	Applied	applied	
88			Sreekantapuram	33489	37000	15	95	90	30	2	2	2	ringing compost,calender waist collection door to door inclooding platic shruing and bailing	nil	2 mcf, 1 rrf	ring compost,compost pit etc	nil	plastic shrudding bailing	nil	nil	applied	applied	
89			Thalassery	92864	96257	39	85	90	97	3	2		plastic shruing	NA	NIL	biobin,biopot,pipecompost	NIL	plastic shruing	NIL	NIL	applied	NA	
90			Thaliparambu	44827	47965	19	85	39.6	34	3.5TPD	3.5TPD		Windrow compost, plastic shredding unit, thumboormuzhi, 1MCF,1 RRF	NA	Thumboormuzhi		water treatment plant,windrow compost, plastic shredding unit, thumboormuzhi, 1MCF,1 RRF	MRF, RRF	NIL	NIL	NA	NA	
91	MUNCIPALITI	Kasaragod	Kanhangad	73536	76475	31	80	65	36	2.5	2	2	Plastic shredding, bailing, ring compost, kitchen bin, thumboormuzhi, 2 M C F, 1 RRF	No	Thumboormuzhi	ring compost, kitchen bin, bio gas,	Plastic shredding, bailing, ring compost, kitchen bin, thumboormuzhi, 2 M C F, 1 RRF	2 M C F, 1 RRF PLASTIC SHREDDING, BAILING	NIL	NIL	NA	NA	
92			Kasaragod	54172	59589	24	86	32	17	7	6	6		YES	YES	YES	-	MCF, SHREDDING, PETTELIZATION	NIL	na	-	-	
93			Nileshwaram	40802	47502	19	90	85	30	10	10	8	Plastic shredding, bailing, ring compost, 3 M C F, 1 RRF	NIL	YES	YES	Plastic shredding, bailing, ring compost, 3 M C F, 1 RRF	MCF, RRF, PLASTIC SHREDDING, BAILING	NIL	NA	NA	NA	
						3571				964.76		1077.19											

ANNEXURE II A - STATUS OF WASTE MANAGEMENT IN RURAL LOCAL BODIES

SL NO:	DISTRICT	LOCAL BODY	NO OF WARDS	No of Household	% Household D2D-Dry	% of Household-D2D-Wet	No of establishment	%establishment-D2D-Dry	% establishment_D2D-Wet	% of houses in which source level treatment	% of establishment in which source level treatment	% disposing to centralised system	% disposing to centralised system	Quantity of Waste generated (TPD)	Quantity of Waste collected (TPD)	Quantity of Waste treated (TPD)	Quantity of Waste processed in Composting Sites (TPD)	Quantity of Waste processed in biomethanation (TPD)
1	T	Amboori	13	5954	100	0	828	84	0	60	100	0	0	0.4	0	0	0	0
2	H	Anadu	19	11944	52	47	1835	10	5	100	100	0	0	0.5	0	0	0	0
3	R	Anchuthengu	14	4906	41	0	50	80	50	41	80	0	0	0.2	0.1	0	0	0
4	I	Andoorikonam	18	9598	65	0	2198	56	0	13	28	0	0	0.32	0.3	0	0	0
5	U	Aruvikkam	20	13418	100	0	217	35	100	0	0	0	0	0.36	0	0	0	0
6	V	Aryand	18	11323	78	0	1514	75	0	10	5	0	0	0.1	0.005	0.005	0	0
7	A	Aryaneode	16	7820	100	0	235	100	0	5	5	0	0	0.15	0	0	0	0
8	N	Athiyannoor	17	9389	100	0	257	0	0	0	0	0	0	0.002	0.4	0.379	0	0
9	A	Azhoor	18	9428	0	0	176	0	0	1	0	0	0	5.4	0	0	0	0
10	T	Balarampuram	20	10380	47	0	3345	88	0	0	0	0	0	0.5	0	0	4.6	0
11	H	Cherumaruthy	19	8238	77	21	420	86	0	75	30	0	0	0.05	0.3	0	0	0
12	A	Cherikal	21	12705	28	100	2900	149	7	100	100	0	0	0.45	0	0	0	0
13	P	Cherunniyoor	14	6935	100	0	4322	6	0	100	100	0	0	0.6	0.5	0	0	0
14	A	Chiruvinkooczhu	19	9698	52	0	754	40	0	0	0	0	0	0.278	0.27	0	0	0
15	U	Edava	17	9573	100	0	420	100	0	0	0	0	0	0.5	0	0	0	0
16	R	Elakamon	16	9888	86	0	212	70	0	86	0	0	0	0.5	0	0	0	0
17	A	Kadavkkavoor	16	10347	0	0	1878	0	0	63	15	0	0	0.2	0.12	0	0	0
18	M	Kadinankulam	23	25734	5	0	3236	5	0	100	100	0	0	0.2	0.12	0	0	0
19		Kallara	17	9421	100	0	600	100	0	100	100	0	0	0.2	0	0	0	0
20		Kallikkadu	13	4665	68	0	937	67	0	100	100	0	0	0.2	0	0	0	0
21		Kalliyoer	21	14753	0	64	820	0	0	18	5	0	0	0.2	0	0	0	0
22		Kanjirankulam	14	6835	100	0	42	100	76	59	32	0	0	0.5	0	0	0	0
23		Karakulam	23	18000	28	28	168	100	0	45	100	0	0	0.2	0	0	0	0
24		Karavaram	18	11640	31	0	1898	19	0	30	0	0	0	0.1	0.05	0.05	0	0
25		Karodu	19	11554	100	0	1530	100	0	70	95	0	0	0.3	0.15	0	0	0
26		Karunkulam	18	7589	45	0	616	25	0	100	100	0	0	0.2	0	0	0	0
27		Kattakkada	21	14310	5	0	2187	12	0	76	67	0	0	0.1	0	0	0	0
28		Keerzhivillam	20	9496	95	0	461	100	0	100	100	0	0	0.845	0	0	0	0
29		Kilimanoor	15	6735	100	0	189	84	0	95	28	0	0	0.5	0	0	0	0
30		Kollavil	16	9080	0	0	1083	0	0	0	4	0	0	0.2	0.125	0	0	0
31		Kottukal	19	13512	80	20	1671	3	85	100	100	0	0	0.54	0	0	0	0
32		Kulatheer	20	10586	102	0	1121	16	82	0	20	0	0	0.45	0.39	0	0	0
33		Kunnathukal	21	11567	10	0	302	0	0	32	20	0	0	0.4	0.25	0	0	0
34		Kuttielal	14	6665	100	0	1601	0	100	55	100	0	0	0.35	0	0	0	0
35		Madavoor	15	7003	79	0	202	90	0	0	0	0	0	0.225	0	0	0	0
36		Malayinkil	20	14338	100	0	2957	51	100	79	90	0	0	0.12	0.11	0	0	0
37		Manamboor	16	9405	1	0	1354	1	0	44	49	0	0	0.5	0.05	0	0	0
38		Mangalapuram	20	14358	95	0	2474	78	0	80	0	0	0	0.25	0	0	0	0
39		Manikkal	21	13500	80	0	860	63	0	5	0	0	0	0.1	0	0	0	0
40		Maranaloor	21	14321	0	0	2409	0	0	0	0	0	0	0.81	0	0	0	0
41		Mudakkal	20	12843	0	0	1892	100	0	0	0	0	0	0.4	0	0	0	0
42		Nagroor	17	9945	5	0	1342	5	0	100	100	0	0	0.35	0	0	0	0
43		Naruniyodu	18	10292	100	100	2593	100	100	0	0	0	0	0.45	0.1	0	0	0
44		Navavikkulam	22	14365	6	2	2942	3	4	100	50	50	0	0.62	0	0	0	0
45		Nellandu	16	9985	90	0	3515	43	0	0	0	0	0	0.33	0	0	0	0
46		Otoor	13	5935	46	26	375	100	0	100	100	0	0	0.28	0.15	0	0	0
47		Ottasekharangalam	14	6728	3	2	1375	4	15	26	75	0	0	0.5	0	0	0	0

SL NO:	DISTRICT	LOCAL BODY	NO OF AWARDS	No of Household	% Household D2D-Dry	% of Household-D2D-Wet	No of establishment	%establishment-D2D-Dry	% establishment_D2D-Wet	% of houses in which source level treatment	% of establishment in which source level treatment	% disposing to centralised system	% disposing to centralised system	Quantity of Waste generated (TPD)	Quantity of Waste collected (TPD)	Quantity of Waste treated (TPD)	Quantity of Waste processed in Composting Sites (TPD)	Quantity of Waste processed in biometanation (TPD)
48		Pallichal	23	16543	100	0	140	100	0	100	100	0	0	0.6	0	0	0	0
49		Pallikkal	13	5873	5	0	712	5	0	0	0	0	0	0.35	0	0	0	0
50		Panavoor	15	7338	80	0	2563	75	0	5	5	0	0	0.05	0	0	0	0
51		Pangode	19	11278	100	0	1683	100	0	100	100	0	0	0.58	0.41	0	0	0
52		Parussala	23	12800	27	0	2439	2	0	70	10	0	0	0.38	0.266	266kg/m	0	0
53		Pazhavakunnummal	17	10372	75	0	4780	75	0	5	5	0	0	0.5	0	0	0	0
54		Peringamala	19	12097	65	0	1355	71	0	50	2	0	0	0.5	0.21	0	0	0
55		Perunkadavila	16	8571	93	0	1151	100	0	80	84	0	0	0.16	0.4	0	0	0
56		Poovachal	23	15429	100	0	2403	100	0	38	0	0	0	0.87	0	0	0	0
57		Poovar	15	4543	24	0	740	10	0	0	0	0	0	0.1	0	0	0	0
58		Potheneode	18	10638	0	0	3048	0	0	61	0	0	0	0.63	0	0	0	0
59		Pullimath	19	11519	69	0	322	43	0	100	100	100	0	0.1	0.05	50	0	0
60		Pullambara	15	6798	0	0	278	0	0	0	0	0	0	0.25	0	0	0	0
61		Thirupuram	14	5256	0	0	562	0	0	100	0	0	0	0.25	0	0	0	0
62		Tholikkodu	16	9405	2	0	1354	2	0	80	0	0	0	0.24	0	0	0	0
63		Uzhamalavikkal	15	7967	0	0	160	0	0	82	34	0	0	0.25	0	0	0	0
64		Vakkam	14	5240	66	0	262	27	5	66	27	0	0	0.4	0.21	0	nil	nil
65		Vamanapuram	15	7345	67	0	212	52	0	0	100	100	0	0.1	0	0	0	0
66		Vellanad	18	11836	25	0	460	22	0	100	100	0	0	0.5	0	0	0	0
67		Vellanada	23	11990	29	0	1317	100	100	100	100	0	0	0.105	0	0	0	0
68		Vembayam	21	13401	60	0	193	44	36	5	5	0	0	0.41	0	0	0	0
69		Venganoor	20	14780	5	0	756	5	0	100	70	0	0	42	0	0	0	0
70		Vetoor	14	6248	99	0	205	100	0	99	100	0	0	0.8	0	0	0	0
71		Vilappil	20	36420	0	0	1737	57	0	0	0	0	0	0	0	0	0	0
72		Vilavoorkal	17	12798	100	0	255	20	0	78	100	0	0	0.5	0	0	0	0
73		Vithura	17	10347	100	0	680	100	0	100	100	0	0	5.32	0.1	2.1	0	0.1

SL NO:	DISTRICT	LOCAL BODY	NO OF WARDS	No of Household	% Household D2D-Dry	% of Household-D2D-Wet	No of establishment	%establishment -D2D-Dry	% establishment _D2D-Wet	% of houses in which source level tretment	% of establishment in which source level treatment	% disposing to centralised system	% disposing to centralised system	Quantity of Waste generated (TPD)	Quantity of Waste collected (TPD)	Quantity of Waste treated (TPD)	Quantity of Waste processed in Composting Sites (TPD)	Quantity of Waste processed in biomethanati on (TPD)
74	K O L A M	Adichanalloor	20	11069	90	85	686	80	47	90	0	2	1	2	0.4	0	0	0
75		Alappad	16	5931	70	0	384	58	0	0	1	0	1	0	0	0	0	0
76		Alayamon	14	7350	0	0	1177	0	0	0	0	0	0	0.2	0.1	0	0	0
77		Anchal	19	12968	70	0	1748	65	0	10	15	0	12	4	4	4	0	0
78		Ariencavu	13	3244	65	0	232		0	0	1	0	1	0.1	0.1	0	0	0
79		Chadasyamangalam	15	7661	80	0	1356	80	0	0.6	0.6	0	1	1	1	1	0	0
80		Chathanoor	18	10927	35	0	752	15	0	90	90	8	0	2	2	2	0	0
81		Chavara	23	13568	60	0	1400	60	0	15	2	2	0	2	0.6	0.5	0.5	0.1
82		Chirakkara	16	8629	90	0	1300	40	0	0	1	0	0	0	0	0	0	0
83		Chithara	23	15164	49	0	450	48	0	3	1	0	1	0	0	0	0	0
84		Clappana	15	8552	83	0	1015	6	0	3	1	0	1	0	0	0	0	0
85		East Kallada	15	7234	0	0	8655	0	0	0	0	0	0	0	0	0	0	0
86		Edamulackal	22	6200	0	0	1560	0	0	0	0	0	0	0	0	0	0	0
87		Elamadu	17	7728	55	0	85	71	0	1	36	0	36	0	0	0	0	0
88		Elampalloor	21	5753	79	0	25	62.4	0	10	44	0	44	0	0	0	0	0
89		Ezhukone	16	8569	2254	0	1200	12	0	16	0	0	0	0	0	0	0	0
90		Ittiva	21	12278	40	0	1780	20	0	1	3	0	3	3	2.2	2.2	0	0
91		Kadakkal	19	9800	9800	0	3700	2100	0	237	8	9.8	2.1	2	1	1	0	6
92		Kalluvathukkal	23	16006	80	0	2474	74	0	35	4	0	11	2	1.8	1.8	0	0
93		Karavaloor	16	8644	71	0	1470	69	0	1	1	0	1		0.27	0.27	0	0
94		Kareepra	18	6000	0	0				1		0						
95		Kottamkara	21	12978	65	0	552	109	0	1	0	1	0	0.5	0.35	0.35	0	0
96		Kulakkada	19	11253	0	0	536	126	0	1	0	0	0	0.45	3 ton	3	0	0
97		Kulasekharapuram	23	15978	78	0	3642	38	0	1	0	0	0	0.25	0.33	0.175	0	0
98		Kulathoopuzha	20	11210	59	0	1250	8	0	2	7	0	7	0.3	0.3	0.2	0	0
99		Kummil	14	8210	56	0	211	51	0	1	5	0	5	0.2	0.1	0.1	0	0
100		Kundara	14	4561	72		220	25	0	0	0	0	0	0	0.1	0	0	0
101		Kunnathoor	17	8843	63	0	0	0	0	10	0	0	0	1	1	0	0	0
102		Mayyanad	23	15657	55	0	2890	5	0	29	81	0	0	16	8.5	8.5	4.5	2.5
103		Melila	15	5888	60	0	157	100	0	60	60	0	0	0.25	0.25	0	0	0
104		Munroethuruthu	13	3228	15	0	115	22	0	75	70	0	0	0.2	0	0	0	0
105		Mylom	13	3228	0	0	115	22	0	75	70	0	0	0.2	0	0	0	0
106	Mynagappally	22	150	0	0				0		0							
107	Nedumpana	23	17193	80	80	133	68	68	2	68	80	68	16	11	0	1.5	2	
108	Neduvathoor	18	8521	41	0	1150	98	0	52	65	0	0	0	0	0	0	0	
109	Neendakara	13	5085	58	0	713	0.65	0	0.15	0.3	0	0	0.25	0.25	0.25	0	0	
110	Nilamel	13	5827	80	0	1564	35	0	60	58	0	0	0.15	0.75	0	0	0	
111	Oachira	17	8422	39	0	1025	36	0	0	0	0	0	0.21	0.21	0.25	0	0	
112	panayam	16	8771	0	0				0		0							
113	Panmana	23	16013	90	0	2449	0	21	0	0	0	0	0.15	0.125	0.125	0	0	
114	Pathanapuram	23	11372	700	60	0	54	0	15	93	0	0	6.5	6.5	0	0	0	
115	Pattazhi	13	6265	85	0	199	90	0	61	100	0	0	1.5	1.5	1.5	0	0	
116	Pattazhi																	
117	Vadakkekara	13	6251	80	0	192	90	0	80	100	0	0	1.25	0	0	0	0	
118	Pavithreswaram	19	12977	51	0	786	81	0	20	35	0	0	6	8	5	4	0	
119	Perayam	14	6450	0	0	250	0	0	0	0	0	0	0.25	0.25	0.25	0	0	
120	Perinad	20	11580	53	0	2201	29	0	0	0	0	0	5	3	24	4	0	
121	Piravanthoor	21	3600	42	0	1038	12	0	36	32	0	0	2	0.5	0	0	0	
122	Poothakkulam	21	9621	36	0	308	65	10	29	55	0	0	6	3	3	0	0	
123	Pooyappally	16	8870	70	0	976	40	0	85	10	0	0	5	1.5	1.5	0	0	

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123		Poruvazhy	16	9581	47	0	1200	42	0	0	0	0	0			4	0	0
124		Sasthamcotta	19	15243	0	0				0		0		4	3	2	0	0
125		Sooranad North	18	9871		0	1935	0	0	0	0	0	0					
126		Sooranad South	16	8228	70	0	1120	63	0	0	0	0	0	4	3	2.5	0	0
127		Thalavoor	20	7200	0	0	0	0	0	0	0	0	0	2	1	1	0	0
128		Thazhava	22	11019	70	34	3256	50	30	2	6	0	6	3.8	2.9	2.9	0	0
129		Thekkumbhagom	13	5600	62	0	272	70	0	2	1	0	0	4	2.5	2.5	0	0
130		Thenmala	16	8369	70	0	239	65	0	0	0	0	0	4	3.5	3.5	0	0
131		Thevalakkara	23	8000	0	0	1568	78	0	0	4	0	5	0	0	0	0	0
132		Thodiyoor	23	14237	72	0	2224	82	0	1	2	0	2	5.5	3.5	0	0	0
133		Thrikkaruva	16	12238	0	0	2005	86	0	1	1	0	1	4.9	1.8	0	0	0
134		Thrikkovilvattom	23	21027	0	0	4460	0	0	0	0	0	0	0	0	0	0	0
135		Ummannoor	20	11584	60	0	2153	60	0	10	10	0	0	0.036	0.0216	0	0	0
136		Velinalloor	17	9010	82	0	2250	4	0	4	1	0	1	0	0	0	0	0
137		Veliyam	19	10513	61	0	1983	1	0	1	1	0	1	0	0	0	0	0
138		Vettikkavala	21	1850	0	460	805	0	0	3	0	0	0	0	0	0	0	0
139		Vilakkudy	20	10897	46	0	3256	52	11	16	12	0	0	0	0	0	0	0
140		West Kallada	20	5813	78	0	909	74	0	0	0	0	0	0	0	0	0	0
141		Yeroor	14	14321	1	0	615	1	1	0	1	0	1	0	0	0	0	0

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142	P	Anicaud	13	5067	0	6	0	0	0	0	0	0	0	20kg	20kg	0	0	0
143	A	Aranmula	18	9671	0	100	1697	0	100	0	0	0	0	2	2.5	2	0	0
144	T	Aruvappulam	15	6816	0	8	175	0	0	1	2	0	0	20	15	0	0	0
145	H	Ayroor	16	6548	0	55	835	0	77	0	0	0	0	20Kg	20	0	0	0
146	A	Chenneerkara	14	6515	0	0	0	0	0	0	0	0	0					
147	N	Cherukole	13	4398	0	0	521	0	0	0	0	0	0	50kg	50kg	50kg	0	0
148	A	Chittar	13	5315	0	0	42	0	0	0	0	0	0	48 KG	48Kg	48Kg	0	0
149	M	Elanthur	13	4585	0	0	3980	0	0	0	0	0	0	310Kg	310Kg	0	0	0
150	T	Enadimangalam	15	7241	0	50	380	0	0	0	0	0	0	300 KG	100 kG	0	0	0
151	H	Erathu	17	9011	0	0	510	0	0	0	0	0	0	55 Kg	55Kg	0	0	0
152	I	Eraviperoor	17	8920	0	72	490	0	81	1	2	40	0	1200kg	122kg	0	0	0
153	T	Ezhankulam	20	11555	0	74	2536	0	76	0	0	0	0	1400 kg	1400kg	0	0	0
154	T	Ezhumattur	14	6807	0	100	1226	0	100	50	50	0	0	0.034	0.034	0.034	0	0
155	A	Kadampnad	17	9094	0	0	1497	0	0	0	0	0	0	320kg	320kg	0	0	0
156		Kadapra	15	8608	0	74	803	0	76	0	1	0	0	0.8	0.6	0	0.2	0
157		Kanjoor	20	12080	0	51	892	0	44	0	0	0	0	900	900	0	0	0
158		Kallooppa	14	6043	0	1	797	0	0	0	0	0	0	36	30	0	0	0
159		Kaviyoor	14	6450	0	1	260	0	97	0	0	100	100	16kg	0	0	0	0
160		Kodumon	18	8972			10495	0	0	0	1	0	0		2000 kg	720 kg	0	0
161		Koipuram	17	10486			2191			0	0	0	0	0.5	0.5	0.5	0.5	0.5
162		Konni	18	10028	3	50	1000		50	90	30	1	10	500	350	350	300	0
163		Kottanad	13	4919	0	50	31	0	0	0	0	0	0	55	55	0	0	0
164		Kottangal	13	5699	0	0	760	0	0	0	0	0	0					
165		KOZHANCHERRY	13	4133	2	12	2191	0	2	0	0	2	2	900 kg	210kg	210kg	160 kg	0
166		Kulanada	16	8229	0	100	420	0	100	0	100	100	100	0.033	0.033	0.033	10	10
167		Kunnamthanam	15	6854	0	52	401	0	70	0	0	0	0	300kg	150kg	0	0	0
168		Kuttoor	14	6958	0	0	1088	0	0	0	0	0	0					
169		Malayalapuruzha	14	6324	0	74	930	0	100	98	100	0	0	3.4	2.9	0	0	0
170		Mallappally	14	6091	0	96	1370	0	100	0	0	0	0	350 ton	200 ton	0	0	0
171		Mallapuzhassery	13	4087	0	70	1054	0	3	2	1	0	0	4	0.05	0.01	0	0
172		Mezhuvelli	13	5145	1	80	874	0	60	3	0	0	0	800Kg	700Kg	0	200kg	0
173		Mylapra	13	3600	0	0	446	0	12	0	12	3	1	540 kg	540 kg	Nil	Nil	Nil
174		Naranamoozhi	13	4851	2	91	51	0	102	60	102	2	2	650 kg	650 kg	Nil	Nil	Nil
175		Naranganam	14	5276	0	50	126	0	38	100	100	100	100	380 kg	380 kg	380	0	0
176		Nedumpuram	13	4595	0	77	230	0	44	98	87	0	0	450kg	450kg	450kg	0	0
177		Niranam	13	4477	2	92	316	0	68	73	82	0	0	412	412	412	0	0
178		Omaller	14	6448	4	0	350	90	229	90	72	0	0	950kg	5 (plastic only)	5	400kg	0
179		Pallickal	23	14820	1	60	79	0	35	0	0	0	0	0.5	0.5	nil	nil	nil
180		Pandalam	14	7003	4	80	371	0	216	80	68	0	0					
181		Peringara	15	6700	0	0	320	0	0	0	0	0	0	65 kg	65 kg	0	0	0
182		Pramadom	19	11502	0	79	1236	0	205	0	0	0	0			0	0	0
183		Puramattom	13	5049	0	52	232	0	78	1	2							
184		Ranni	13	6358	4	100	325	0	73	100	96	1	2	0.3	0.3	0.3	0.3	0.15
185		Ranni Angadi	13	5005	4	100	300	10	32	95	96	6	5	200 kg	200 kg	200	100 kg	0
186		Ranni Pazhavangady	17	8229	0	100	420	0	100	0	100	100	100	600 kg/month	600	600	0	0
187		Ranni Perunad	15	7356		69	842	0	29	0	0	0	0	20kg	16kg	18kg	0	0

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188		Seethathode	13	5841	6	100	723	0	100	0	0	0	0	60kg	38kg	31kg	0	0
189		Thannithode	13	4590	0	0	195	0	0	0	0	0	0	0	0	0	0	0
190		Thottapuzhassery	13	5450	0	59	636	0	13	2	2	0	0	350kg/month	350kg/month	350Kg	0	0
191		Thumpamon	13	2887	0	100	267	0	100	52	0	0	0	.168 tpd	.168 tpd	Nil	0	0
192		Vadasserikkara	15	6854	0	0	401	0	129	0	2	0	0	450 kg	450 kg	450	0	0
193		Vallicode	15	7724		70	498	0	21	0	0	0	0	0	0	0	0	0
194		Vechoochira	15	5600	0	100	250	0	100	0	0	0	0	1870 KG	1870 KG	1870 KG	0	0
195	A	Ala	13	4670	0	0	136	0	0	15	0	0	0	0.04	0.04	0.04	NA	NA
196	L	Ambalapuzha	18	8738	0	0	164											
197	A	Ambalapuzha south	15	7323	0	0				2		0						
198	P	Arattupuzha	18	9077														
199	P	Arookutty	13	6245	60	0	324	50	0	2	2	0	0	0.3	0.2	0	0	0
200	U	Aroor	22															
201	Z	Aryad	18	9588	100	0	426	100	0	3	2	0	0	0.5	0.1	0.5	0	0
202	H	Bharanikkavu	21	13420	46	0	340	64	0	32.6	69.2	0	0	0.4	0.29	1.1	0	0
203	A	Budhanoor	14	6533	0	0	320	0	0	33	54	0	0	0	0	0	0	0
204		Chambakulam	13	4900	0	0	122	0	0	15	0	0	0	0	0	0	0	0
205		Chennampallipuram	17	9441	28	0	388	45	0	74	100	0	0					
206		Chennithala Thriperumthura	18															
207		Cheppad	14	7400	0	0	252	0	0	0	0	0	0	0	0	0	0	0
208		Cheriyanaad	15	8320	60	0	128	30	0	10	50	0	0	0.5	1	0	0	0
209		Cherthala south	22	11458	80	95	587	85	40	35	28	0	0	1	0	0	0	0
210		Cheruthana	13	4347	100	0	99	100	0	0	57	0	0	3.2T	1	0	0	0.2
211		Chettikulangara	21	10832	0	0	1542	0	0	0	0	0	0	1.5	1.5	1.3	0	0
212		Chingoli	13	5078	40	0	974	50	0	1	0	0	0					
213		Chunakkara	15	7747	0	0	1240	0	0	0	0	0	0	0.5	0.2	0	0	0
214		Devikulangara	15	6525	100	0	226	100	0	20	100	0	0	0.002	0.002	0.002	0	0
215		Edathua	15	6994	58	0	112	80	0	40	58	0	0	0	0	0	0	0
216		Ezhupunna	16	9018														
217		Kadakarappally	14	6302	0	0	388	0	0	0	0	0	0					
218		Kainakary	15	5335	50	0	15	90	0	37	100	0	0	0.2	0.2	0.2	0	0
219		Kandalloor	15	7440	86	14	1304	90	10	91	90	0	0	0.32	0	0	0	0
220		Kanjikuzhy	18	8500	100	0	450	100	0	90	100	0	0	0.5	0.5	0.5	0.5	0
221		Karthikapally	13	4479	95	0	98	100	0	0	0	0	0	0	0	0	0	0
222		Karuvatta	15	7216	0	0	1417	0	0	0	0	0	0					
223		Kavalam	13	4136			471							1.1	0.9	0.9	0	0
224		Kodamthuruth	15	6055	80	20	268	75	25	30	100	0	0	0	0	0	0	0
225		Krishnapuram	17	7055	0	0	425	0	0	0	0	0	0	0	0	0	0	0
226		Kumarapuram	15															
227		Kuthiathode	16	5400	97	6	372	0	0	0	0	0	0	0	0	0	0	0
228		Mannanchery	23															
229		Mannar	18	7566	90	0	592	53	0	25	1	0	0	4 T	3T	3T	0	0
230		Mararikulam North	18	8375	100	0	469	0	100	1	1664	2	0	0	0	0	0	0
231		Mararikulam south	23	15938	95	0	2437	493	0	76	83	0	0	0	0	0	0	0
232		Mavelikara Thamarakulam	17	8953	59	0	2883	0	5	0	0	0	0	0	0	0	0	0
233		Mavelikara Thekkekara	19	11661	40		1653		9	0	0	0	0					
234		Muhamma	16	7777	50	0	10	70	0	70	50	5	50	1000kg	782kg	0	7395kg	0

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235		Mulakuzha	18	8570	100	0	560	0	0	0	0	0	0	1.5	320kg	320kg	0	0
236		Muthukulam	15	8405	0	0	50	0	0	0	0	0	0	0	0	0	0	0
237		Muttar	13	2884	100	100	239	0	0	100	100	0	0	0.05T	0	0	0	0
238		Nedumudy	15	5186	0	0	1578	0	0	1	32	0	0	1.2 T	0.8T	0	0	0
239		Neelamperoor	13	3841	100	0	460	0	0	0	0	0	0					
240		Nooranad	17	9328	70	0	469	88	0	0	0	0	0	0	260KG/	0	0	0
241		Palamel	19	8546	89	0	502	0	0	0	0	0	0	1.5 T	1.4 T	1.4T	0	0
242		Pallippad	13	6029	80	0	573	10	0	95	98	0	0	2T	1.33T	1.33T	0	0
243		Panavally	18	7285	8	0	632	50	0	55	0	0	0	0	0	0	0	0
244		Pandanad	13	3946	0	0	110	0	0	0	0	0	0					
245		Pathiyoor	19	11953	100	0	1249	100	0	1	1	0	0	0.000331	0.0002	0.0002	0	0
246		Pattanakkad	19	11005	100	0	2400	100	0	100	100	0	0	1.5	0	0	0	0
247		Perumbalam																
248		Pulincunnu	19	5389	0	0	185	0	0	0	0	0	0	2.5T	2.5T	2.5T	0	0
249		Puliyoor	13	6612	0	0	158	75	0	23	12	0	0	2T	2T	1.5T	0	0
250		Punnapra north	17	8669	0	0	325	0	0	100	100	0	0					
251		Punnapra south	17	8560	0	0	346	0	0	0	0	0	0					
252		Purakkad	18	9354	20	0	1159	0	0	10	1	0	0	0.01	0.001	0	0	0
253		Ramankary	13	3959	30	0	506	0	0	100	100	0	0	989.75kg	0	0	0	0
254		Thakazhy																
255		Thalavady	15	7210	0	0	247	0	0	98	98	0	0	1200kg	1000kg	0	0	0
256		Thannermukkom	23	10203	40	0	396	50	0	30	100	0	0	0.02	0	0	0	0.003
257		Thazhakkara	21	12128	50	0	2141	0	0	3	0	0	0	0	0	0	0	0
258		Thiruvandoor	13	4686	0	0	216	0	0	15	0.32	0	0	0	0	0	0	0
259		Thrikkunnapuzha	17	7273	62	0	263	43	0	2	2	0	0	00KG/MONT	00KG/MONT	00KG/MONT	0	0
260		Thuravoor	18	8707														
261		Thykattussery	15	5928	50	0	928	40	0	15	15	0	0	1800KG/m	1000kg	0	0	0
262		Vallikunnam	18	9679	20	0	1918	20	0	20	20	0	0	3	2	0	0	0
263		Vayalar	16	5817	0	0	218	0	0	15	28	0	0	0	0	0	0	0
264		Veeyapuram	13	3678	0	0	212	0	0	0	0	0	0	0	0	0	0	0
265		Veliyanad	13	3680	0	0	246	0	0	0	0	0	0	0	0	0	0	0
266		Vempony	15	7453	0	0	574	6	0	0	0	0	0	1500kg/m	1000kg/m	1000kg/m	0	0
267	K	Akalakunnam	15	5580	436	74	0	70	0	67	64	0	0	2160 kg	2160 kg	2160kg	40 kg	150 kg
268	O	Arpookara	16	6214	362	50	0	45	0	92	0	0	0	1400	0	0	1400	0
269	T	Athirampuzha	22	12380	2608	70	0	58	0	6	3	16	5	3 ton	0	0	500kg	0
270	A	Ayarkunnam	20	10445	1102	69	49	609	424	3	4	0	0	1579 kg	1579 kg	1579 kg	35 kg	110 kg
271	Y	Aymanam	20	10522	1150	100	0	71	0	13	10	0	0	3230 kg	3230 kg	3230 kg	115 kg	0
272	A	Bharanganam	13	3840														
273	M	Chempu	15	6240	1444	73	0	49	0	13	4	0	0	2230Kg	2230Kg	2230 KG	450 Kg	0
274		chirakkadavu	20	10986	3122	100	0	81	0	100	81	0	0	2000	2000	2000	0	0
275		Elikulam	16	7790	370	40	0	72	0	40	72	0	0	240KGS	205KGS	35KGS	0	0
276		Erumely	23	16843	2362	5	0	15	0	26	15	0	0	250	305kg	68	6500kg	2500kg
277		Kadanad	14	5717	1482	0	0	0	0	0	0	0	0	220	0	0	0	0
278		Kadaplattom	13	3317	198	100	0	100	0	100	100	0	0	100kg	75kg	75 kg	0	0
279		Kaduthunthy	19	10336										3350	390	3350	0	350
280		Kallara (Vaikom)	13	3905	254	85	0	100	0	90	90	0	0	0.039	0.039	0.039	0	0
281		Kanakkary	15	7567	284	25	0	53	0	8	10	0	0	101kg	75kg	75kg	0	0
282		Kangazha	15	6383	117	45	0	30	0	55	70	0	0	0.5	0.5	0.5	0	0
283		Kanjirappilly	23	12478	3000	85	0	75	0	85	75	0	0	0.6	60 kg	0	0	0
284		Karoor	15	7119	35	32	0	14	0	100	100	0	0	0.15	0.15	0.15	0	0

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285		Kannakeral	16	8040	1093	0	0	0	0	0	0	0	0	2	1	0.5	0.5	0
286		Kidangoor	15	6686	512	67	0	29	1	15	3	67	30	2	0	0.5	0.5	0
287		Koottoppada	17	8335	241	0	0	0	0	24	17	0	42	3	0	0	0	0
288		Koottikal	13	5363	739	0	0	0	0	0	0	93	0	0	0	0	2	0
289		Konhodu	13	4803	475	71	0	25	25	14	100	0	0	40	28	0	0	0
290		Kozhuvanal	13	4103	256	0	0	0	0	2	1	0	0	28	0	0	1.2	0
291		Kumarakom	16	6472	8714	39	0	0	0	4	0	0	0	0	0	0	0	0
292		Kuruvilangad	14	5831	1329	60	0	15	0	73	2	0	0	2	2	0	0	0
293		Kurichi	20	10600	348	42	0	29	0	1	2	0	0	3.1	0.2	0	0.1	0
294		Madappally	20	10718	1100	70	0	70	0	30	10	0	0	1.45	1.01	0	0	0
295		Manarad	17	9321	824	100	0	100	0	0	100	100	0	110 KG	60 KG	60 KG	0	0
296		Mainnala	15	5430	50	6	0	60	0	0	30	0	0	0.41	0.21	0	0	0
297		Manjoor	18	8210	1608	100	0	100	0	1	2	0	2	420	220	220	160	25
298		Marangattupilly	14	5264	1107	64	0	18	0	1	2	0	1	1000kg	400kg	400kg	0	0
299		Maravanthuruth	15	7499	243	90	0	35	0	4	75	0	0	337	270	270	0	0
300		Meenachil	13	4800	402	100	0	100	0	0	14	0	0	0.066	0.066	0	0	0
301		Meenadam	13	4161	524	90	0	33	0	90	3	0	0	110	60	60	20	0
302		Melkavu	13	3700	89	84	0	62	0	0	62	0	0	90KG	90KG	90KG	0	0
303		Moornilavu	13	2975	160	96	0	98	0	0	98	0	0	50kg	25kg	25kg	0	0
304		Mulikkulam	17	7250	322	8	0	10	0	40	10	0	0	0.1	0.1	0	0	0
305		Mundakayam	21	11901	700	3	0	100	0	89	100	0	0	0.2	0.1	0	0	0
306		Mutholy	13	5245	1218	62	0	27	0	0	26	0	0	1840 kg	1840 kg	1840 kg	0	0
307		Nedunkunnam	15	6922	1241	46	0	26	0	46	26	0	0	0.1	0.1	0	0	0
308		Neendoor	15	6902	702	9	0	4	0	43	90	0	0	0.1	0.1	0.45	0.1	0
309		Niezhoor	14	4732	342	0	0	100	0	0	2	2	8	2.7	0.45	0.45	1.4	0
310		Palappad	16	7766	1245	66	0	73	0	0	0	0	0	1200 KG	1200 KG	0	0	0
311		Pallickathodu	13	5649	1472	50	0	24	0	20	0	0	0	3.66	3.66	0	0	0
312		Pampady	20	10700	2822	40	0	7	0	17	0	0	0	0	0	0	0	0
313		Panathikud	23	12190	899	29	0	11	0	12	0	0	0	0	0	0	0	0
314		Parathodu	19	11438	371	31	0	27	0	17	0	0	0	0	0	0	0	0
315		Poombar	13	3966	690	100	0	100	0	48	1	0	0	12.165	12.165	0	0	0
316		Poonjar	14	5426	1077	90	0	100	0	30	35	0	0	145kg	82kg	0	0	0
317		Thekkikkara	18	7630	1510	0	0	0	0	40	42	0	0	0.75	0.15	0	0	0
318		Puthupally	18	9285	1152	11	0	18	0	5	13	0	0	350	75	0	0	0
319		Ramanapuram	14	6161	139	90	0	66	66	0	0	90	65	3.224	0	0	1.24	0
320		T. V. Puzam	13	3626	424	70	0	35	0	0	0	0	0	0.643	0	0	0	0
321		Teekoy	13	2230	73	43	0	27	0	0	18	0	0	0	0	0	0	0
322		Thalappam	13	3935	872	82	0	31	0	18	27	0	0	0.356	0	0	0	0
323		Thalappalam	15	4800	158	100	0	100	0	2	0	0	0	3.7 ton	3.7	0	0	0
324		Thalayolaparambu	15	8577	630	42	0	100	0	0	0	0	0	0.01	0	0	0.01	0
325		Thiruvannur	14	6511	838	75	0	18	0	20	15	0	0	.77 Ton	.77 Ton	0	0	0
326		Thiruvannur	18	8653	321	70	0	67	0	5	27	0	0	.5 Ton	.5 Ton	0	0	0
327		Thikkodithanam	20	11273	1300	0	0	12	0	0	0	0	0	.4 TON	.5 TON	0	0	0
328		Udayanapuram G.P	17	8462	64	50	0	18	0	10	5	0	0	3000 KG	5 TON	0	0	0
329		Uzhavoor	13	5216	205	16	0	15	0	4	10	0	15	0.8	0.3	0.3	0	0
330		Vakkatharam	20	10500	1400	60	0	40	0	45	15	0	0	0.3	2.5	0.3	0.1	0
331		Vazhappally	21	11900	1460	70	0	65	0	30	10	0	0	1.64	0.98	0.3	0	0
332		Vazhoor	16	8384	517	100	0	100	0	15	14	0	0	0.5	0.3	0	0.25	0
333		Vechoor	13	5461	847	58	0	30	0	35	15	0	0	0.4	0.3	0.3	0.1	0

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334		Veliyannoor	13	3846	436	72	0	5	0	75	80	0	0	0.25	0.05	0.3	0.02	0.075
335		Vellavoor	13	6265	918	20	0	7	0	3	0	0	0	0.01	0.02	0.03	0	0
336		Velloor	16	6184	946	73	0	32	0	0	0	0	0	0.8	0.4	0	0	0
337		Vijayapuram	19	10741	1129	85	0	5	0	4	0	85	0	0.2	0.2	0.2	0	0
338	I	Adimaly	21	10363	1140	92	5	95	20	70	80	25	25	20	5	5	1	0
339	D	Alakode	13	2662	76	85	0	82	0	25	50	0	0	1	0.1	0.1	1	0.5
340	U	Arakulam	15	6445	182	25	0	32	0	75	68	25	32	1.5	0.5	0.5	0	1
341	K	Ayyappancoil	13	4993	92	10	0	27	0	12	8	25	22	0.5	0.1	0.1	0	0
342	K	Bisonvalley	13	3853	168	18	0	31	0	34	29	43	24	1.5	0.5	0.5	0	0
343	I	Chakkupallam	15	7120	407	0	0	80	0	29	0	24	78	2.5	2.5	2	0	0
344		Chinnakanal	13	4632	923	72	0	0	0	18	65	62	25	1.5	0.75	0.75	0	0
345		Devikulam	18	7894	108	40	0	70	0	75	75	85	80	0.4	0.2	0.3	0	0
346		Edamalakudy	13	764	19	0	0	0	0	5	16	25	10	0	0	0	0	0
347		Edavetty	13	5316	763	89	0	48	0	23	22	0	0	4.37	4.18	4.18	1.67	0
348		Elappara	17	8160	950	80	0	85	25	65	50	50	80	3.5	3.1	3.1	2.5	0.2
349		Eratayar	14	4695	492	80	0	75	0	50	25	100	100	1.3	0.5	0.5	0	0
350		Idukki Kanjikuzhy	18	10560	320	65	0	0	0	50	75	60	60	3.1	1	1	0	0
351		Kamakshy	15	6234	450	80	0	75	0	90	60	0	0	4	4	3.5	0	0
352		Kanchiyar	16	6718	962	65	0	80	0	20	10	65	0	6.7	1.9	1.9	0	0
353		Kanthalloor	13	4680	0	75	0	100	100	75	25	100	25	1.39	0.5	0.5	0.5	0
354		Karimannoor	14	5064	768	70	0	75	0	50	50	0	0	0.6	0.3	0.2	0.2	0
355		Karimkunnam	13	4135	501	0	0	63	0	50	50	0	0	0.43	0.43	0.43	0.84	0
356		Karunapuram	17	8107	1054	85	0	65	0	80	75	0	0	6.5	4.5	4.5	2	0
357		Kodikulam	13	3984	117	92	0	90	0	38	60	0	0	3.89	2.95	2.95	0	0
358		Kokkayar	13	4728	133	95	0	92	0	30	65	0	0	3.65	2.3	0.6	0	0
359		Konnathady	19	8730	650	85	0	80	90	87	72	23	32	1.5	0.5	0.5	0	1
360		Kudayathoor	13	3456	163	50	0	68	0	35	20	0	0	3.9	2	2	0	0
361		Kumaramangalam	13	4512	122	50	0	20	0	40	40	0	0	3	1.5	1.5	0.5	0.25
362		Kumily	20	11850	2280	95	13	96	95	87	4	13	95	4	4	3.9	3.5	3.5
363		Manakkad	13	4739	138	94	0	40	0	45	25	0	0	4.53	2.45	2.45	2	2
364		Mankulam	13	4589	632	68	0	74	0	64	48	74	0	2.219	0.012	0.012	0	0
365		Manappuram	13	4659	791	75	0	100	100	75	25	100	25	1.39	0.5	0.5	0.5	0
366		Mariyapuram	13	3592	15	0	0	100	0	98	60	0	90	0.9	0.6	0.3	0.15	0
367		Munnar	21	9107	3132	70	0	90	70	100	100	40	0	44485	44485	44485	6	4
368		Muttom	13	2563	2300	75	0	90	0	60	50	50	50	2.1	0.5	0.6	0.2	0
369		Nedumkandam	22	15132	10361	75	0	90	0	25	10	0	90	13.51				
370		Pallivasal	14	5800	1200	70	0	65	0	70	50	60	75	3.26	0.5	0.5	2	0.2
371		Pampadumpara	16	6832	150	70	0	70	0	75	75	20	20	6.35				
372		Peermade	17	9090	1425	100	0	85	0	30	15	85	85	1.5	1.5	1.5	0	0
373		Peruvanthanam	14	4242	1630	0	0	75	0	30	35	60	25	2	1.5	0.9	0.5	0
374		Purapuzha	13	3170	414	100	0	70	0	40	30	100	70	0.33	0.33	0.33	7.4	0
375		Rajakad	13	3819	880	85	85	85	80	75	75	100	80	0.49	0.49	0.49	0.49	0.49
376		Rajakumary	13	6052	250	75	75	90	0	70	75	50	50	0.68	0.68	0.68	0.68	0.68
377		Santhanpara	13	4845	170	95	0	100	90	81	95	91	91	4.69	4.26	4.26	0.6	0
378		Senapathy	13	4300	150	78	0	100	84	80	72	74	74	3.39	2.75	2.75	0.8	0
379		Udumbanchola	14	7607	248	0	0	75	0	90	80	50	50	0.4	0.2	0.2	0.2	0
380		Udumbannoor	16	6254	1115	60	60	70	70	40	70	60	60	0.5	0.3	0.15	0.15	0
381		Upputhara	18	8184	1211	0	0	100	0	98	60	60	90	0.9	0.6	0.3	0.15	0
382		Vandanmedu	18	10373	1509	0	11	0	5	85	96	5	5	9.17	0.6	0.6	0.6	0.2
383		Vandiperiyar	23	13969	1011	0	60	80	60	40	70	70	70	5	5	3	3	3

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384		Vannappuram	17	11001	1123	30	0	50	0	25	20	0	0	3.3	1.1	1.1	0	0
385		Vathikudy	18	10194	1412	50	0	70	0	68	10	0	0	9.79	0.1	1.1	0	0
386		Vattavada	13	2747	198	51	0	60	0	0	20	0	0	0.1	0.1	0.1	0.1	0.1
387		Vazhathope	14	4500	450	55	0	64	0	60	25	75	0	1.1	1.1	1.1	0	0
388		Vellathooval	17	8448	1072	93	0	62	0	63	85	0	0	7.89	4.1	4.1	0.1	0
389		Velliyamattom	15	6970	1093	75	0	85	0	83	79	0	0	0.1	0.1	0.1	0.1	0.1

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390	E	Aikkarānadu	14	7889	1649	34	0			0	0	0	0	5.02	0.5	0.5	0	0
391	R	Alengadu	21	16317	920	60	0	80	0	10	10	0	0	4.12	0	0	0	0
392	N	Amballur	16	8454	1690	19	0	12	0	8	1	0	4	0.06	0.0012		0.00036	0.00012
393	A	Arakuzha	13	4965	189	0	0	0	0	0	0	0	0	0	0	0	0	0
394	K	Asamannur	14	6329	150	8	0	0	0	8	400	0	0	0	0	0	0	0
395	U	Avoli	14	6404	1638	0	0	0	0	1	10	0	0	0	0	0	0	0
396	L	Ayavana	14	6621	568	0	0	0	0	0	0	0	0	0	0	0	0	0
397	A	Ayyampuzha	13	5706	668	0	0	0	0	10	35	0	0	0	0	0	0	0
398	M	Chellanam	21	10535	62	0	0	0	0	0	0	0	0	0	0	0	0	0
399		Chendamangalam	18	9665	1108	56	0	4	0	49	19	0	0	6.3	6.3	6.3	0	0
400		Chengamanad	18	10566	468	100	0	64	0	95	75	0	0	6.99	6.99	6.99	0	0
401		Cheranallur	17	10832	568	74	0	67	0	74	67	0	67	3.7	3.7	3.7	0	0
402		Chittattukara	18	9583	412	16	0	0	0	99	58	0	0	4.5	3	1	0	0
403		Chooranikkara	18	10805	1996	75	0	0	0	0	0	0	0	9 TDP	9TDP	9TDP	0	0
404		Chottanikkara	14	9097	480	92	0	88	0	95	88	3	88	4.3 TPD	4.3 TPD	4.3 TPD	0	0
405		Edakkattuvayal	14	6133	900	49	0	100	0	49	44	0	0	7 TPD	7 TPD	7 TPD	0	0
406		Edathala	21	17007	4154	59	0	91	0	22	45	0	0	3.5	0	0	0	0
407		Edavanakkadu	15	6346	954	75	0	100	0	75	0	0	0	6	3	3	0	0
408		Elamkunnappuzha	23	15479	1562	95	0	100	0	23	42	0	0	7	4	4	0	0
409		Elanji	13	5552	127	64	0	100	0	100	100	0	0					
410		Ezhikkara	14	6162	196	69	0	100	0	100	100	0	0	0	0	0	0	0
411		Kadamakkudi	13	4021	619	0	0	0	0	0	0	0	0					
412		Kadungalloor	21	16221	5505	0	0	0	0	0	0	0	0					
413		Kalady	17	9733	2512	82	0	0	0	12	4	0	0	7.06	1.6	0.9	0.5	0.5
414		Kalloorkadu	15	7511	320	0	0	0	0	2	6	0	0					
415		Kanjoor	13	4192	242	0	0	0	0	9	14	0	0	0	0	0	0	0
416		Karukutty	17	9699	2666	0	0	0	0	0	0	0	0	0	0	0	0	0
417		Karumaloor	20	11253	1215	0	0	0	0	1	2	0	0	0	0	0	0	0
418		Kavalangad	18	9880	1770	0	0	0	0	0	0	0	0	0	0	0	0	0
419		Keerambara	13	4106	720	0	0	0	0	0	0	0	0	NOT ASSESSED	0	0	0	0
420		Kozhikodu	19	12788	716	0	0	0	0	7	21	0	0	No data available	0	0	0	0
421		Kizhakkambalam	19	9253	539	0	0	0	0	0	0	0	0	0	0	0	0	0
422		Kottappadi	13	6172	685	0	0	0	0	100	100	0	0	0	0	0	0	0
423		Kottuvalli	22	14573	2105	50	0	0	0	86	1	0	0	0	0	0	0	0
424		Kumbalam	18	10129	1725	0	0	0	0	4	5	0	0	7.2	0	0	0	0
425		Kumbalangi	17	8719	1430	100	0	90	0	100	90	0	0	not estimated	not estimated	0	0	0
426		Kunnathunadu	18	12419	3940	23	0	0	0	4	0	0	0	0.5	0	0	0	0
427		Kunnukara	15	6500	250	54	0	60	0	46	40	0	0					
428		Kuttambuzha	17	8220	220	0	0	0	0	0	0	0	0	0	0	0	0	0
429		Kuvappady	20	12123	0	10	0	0	0	3	0	0	0					
430		Kuzhupilli	13	3015	185	34	0	51	0	0	0	0	0	0	0	0	0	0
431		Malayattoor - Neeleswaram	17	8386	971	0	0	0	0	0	0	0	0	0	0	0	0	0
432		Maneed	13	5048	219	0	0	0	0	0	0	0	0	0	0	0	0	0
433		Manjalloor	13	5253	1585	81	19	0	0	0	0	0	0	0	0	0	0	0
434		Manjapra	13	3857	173	0	0	0	0	4	0	0	0	175KG	0	0	0	0
435		Marady	19	10995	72	0	0	0	0	0	0	0	0	0.05	0.001	0.001	NIL	NIL
436		Mazhuvannur	14	6499	353	0	0	0	0	0	0	0	0	nil	nil	nil	0	nil

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437		Mookkannur	14	5354	200	0	0	0	0	0	0	0	0	nil	nil	nil	0	0
438		Mudakkuzha	13	7386	700	0	0	0	0	0	0	0	0	100KG	0	0	0	0
439		Mulanthuruthi	16	7728	11	0	0	0	0	0	0	0	0					
440		Mulavukadu	16	7479	1105	0	0	0	0	0	0	0	0					
441		Narayambalam	19	12909	3522	37	0	10	0	0	0	0	0					
442		Nedumbassery	21	12271	0	0	0	0	0	0	0	0	0	24	0.5	0.5	0	0
443		Nellikuzhi	16	7801	0	0	0	0	0	0	0	0	0	0	0	0	0	0
444		Njarakkal	16	7957	1974	0	0	0	0	0	0	0	0	0	0	0	0	0
445		Okkal	16	4780	2	0	0	0	0	0	0	0	0	0	0	0	0	0
446		Paingottur	13	4500	135	76	0	100	0	0	0	0	0	0	0	0	0	0
447		Palakkuzha	13	5050	1517	0	0	0	0	0	0	0	0	0	0	0	0	0
448		Pallarimangalam	23	13549	1141	75	0	70	0	92	90	0	0	0	0	0	0	0
449		Pallippuram	23	13549	1141	75	0	70	0	92	90	0	0	11	0.01	0	0	0
450		Pambakkuda	18	9860	3022	0	0	0	0	71	93	0	0	1	4.9			
451		Parakadavu	22	11745	315	0	0	0	0	98	1587	0	0					
452		Payipra	13	6129	588	0	0	0	0	100	100	0	0					
453		Pindimana	14	7649	3107	34	0	6	0	100	100	0	0					
454		Poothrikka	13	6453	1814	12	0	8	0	12	0	0	0	2219 KG	2219 KG	1780 KG	0	0
455		Pothanikadu	13	3687	750	23	0	17	0	20	0	0	0	100kg/day	0	0	0	0
456		Puthenvelikkara	17	9932	436	0	0	0	0	0	0	0	0	Not Estimated	Not	0	0	0
457		Ramamangalam	20	12715	1200	40	0	7	0	8	46	0	0	3TPD	3TPD	0	3tpd	0
458		Rayamangalam	16	6000	2000	25	20	3	0	14	2	0	0					
459		Sreemoola Nagaram	16	5769	250	0	0	0	0	0	0	0	0	0	0	0	0	0
460		Thirumaradi	13	2825	606	45	0	54	0	0	0	0	0	0	0	0	0	0
461		Thiruvanivoor	14	7572	1654	0	0	0	0	10	10	0	0	1 tnd	0	0	0	0
462		Thuravur	20	15375	365	0	0	0	0	0	0	0	0		175KG	0	0	0
463		Udayamperoor	20	10022	1586	0	0	0	0	0	0	0	0					
464		Vadakkekkara	17	9549	1789	0	0	0	0	4	11	0	0					
465		Vadavukodu-Puthankurisu	14	6174	1628	0	0	0	0	0	0	0	0					
467		Varappetti	13	6087	771	0	0	0	0	0	0	0	0	0.07	0.07	0	0	0
468		Varappuzha	16	9275	1858	0	0	0	0	0	0	0	0	0	0	0	0	0
469		Vazhakkulam	20	17202	788	0	0	0	0	0	0	0	0	1	1	0	0	0
470		Vengola	23	17853	850	0	0	0	0	78	71	0	0	3	0	0	0	0
471		Vengoor	15	5855	775	0	0	0	0	0	0	0	0	10	10	0	0	0

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472	T H R I S S U R	Adat	18	8480	1154	0	0	17	0	0	0	0	0	2	3	3	0	0	
473		Alagappanagar	17	9749	1917.0	0	0	0	0	15	8	0	0	2	0	0	0	0	
474		Aloor	23	17500	1700	0	0	0	0	0	0	0	0	1 ton	1/2 ton	0	0	0	
475		Annamanada	18	10499	2666	0	0	0	0	0	14	0	0	0	0	0	0	0	0
476		Anthikad	15	6922	1160	0	0	0	0	0	7	0	0	0					
477		Arimpur	17	10495	69	0	0	0	0	0	19	0	0	0	3 ton	2 ton	nil	0	0
478		Athirappilly	13	3604	967	0	0	0	0	0	0	0	0	0	Not estimated	Not Estimated	0	0	0
479		Avanur	15	8062	373	25	0	5	0	0	2	0	0	0	8	0	0	0	0
480		Avinisserry	14	6213	521	0	0	89	0	0	3	0	0	0	0	0	0	0	0
481		Chazhur	18	7956	7956	100	0	100	0	0	0	0	0	0	0	0	0	0	0
482		Chelakkara	22	13745	2921	23	0	3	0	0	0	0	0	0	0	0	0	0	0
483		Cherpu	21	11176	2156	72	0	0	0	0	1	0	0	0	not estimated	not estimated	not	not estimated	not estimated
484		Choondal	18	10449	3097	0	0	0	0	0	0	0	0	0	0	0	0	0	0
485		Chowannur	13	5251	919	0	0	0	0	0	0	0	0	0	0	0	0	0	0
486		Desamangalam	15	7119		0	0	0	0	0	0	0	0	0	0	0	0	0	0
487		Edathiruthy	18	8642	783	0	0	0	0	0	0	0	0	0	0	0	0	0	0
488		Edavilangu	14	6469	1363	100	0	0	0	0	0	0	0	0	0	0	0	0	0
489		Elavally	16	8513	1941	70	0	50	0	0	0	0	0	0	1 ton	1 ton	0	0	0
490		Engandiyur	16	7781	1515	72	0	30	0	0	0	1	0	0	not estimated	not estimated	not	not estimated	not estimated
491		Eriyad	23	14585	2704	0	0	0	0	0	0	0	0	0	0	0	0	0	0
492		Erumapetty	18	7420	3920	0	0	0	0	0	0	0	0	0	0	0	0	0	0
493		Kadangode	18	8561	2696	0	0	0	0	0	0	0	0	0	0	0	0	0	0
494		Kadappuram	16	6810	901	0	0	0	0	0	0	0	0	0	0	0	0	0	0
495		Kadavallur	20	9254	1232	0	0	0	0	0	0	0	0	0	0	0	0	0	0
496		Kadukutty	16	8276	1175	0	0	0	0	0	0	0	0	0	0	0	0	0	0
497		Kaipamangalam	20	10800	960	50	0	5	0	0	0	0	0	0	0	0	0	0	0
498		Kaiparambu	18	8409	818	36	0	6	0	0	0	0	0	0	not estimated	0	0	0	0
499		Kandanassery	16	7791	1487	0	0	0	0	0	0	0	0	0	not estimated	0	0	0	0
500		Karalam	15	6486	839	0	0	21	0	0	95	25	0	0	0.2	0.2	0.2	0	0
501		Kattakampal	16	8500	700	0	0	0	0	0	0	0	0	0	0	0	0	0	0
502		Kattoor	14	5559	1679	30	0	5	0	0	0	0	0	0	0	0	0	0	0
503		Kodakara	19	10871	3016	29	0	0	0	0	17	0	0	0	9.6 tons	6.7 tons	6.7 tons	0.5 ton	0
504	Kodassery	20	11341		0	0				0				0	0	0	0	0	
505	Kolazhy	17	11845	1135	0	0	0	0	0	0	0	0	0	not estimated	not estimated	not estimated	not estimated	not estimated	
506	Kondazhy	15	6764	972	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
507	Koratty	19	10989	610	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
508	Kuzhur	14	6510	908	0	0	0	0	0	0	0	0	0	not estimated	0	0	0	0	
509	Madakkathara	16	8860	1562	40	0	52	0	0	10	0	0	0	2.05 TON	2.05 TON	2.05 TON	0.25TON	1 TON	
510	Mala	20	11856	4446	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
511	Manalur	19	9467	2312	100		100		100	100	90			9.86TON	9.86TON	9.86TON	05. TON	0	
512	MATHILAKAM	17	7565	588	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
513	Mattathur	23	16245	2731	0	0	0	0	0	0	0	0	0	4.9 ton	4.9 ton	4.9 ton	0	0	
514	Meloor	17	6888		0	0				0				200kg	0	200kg	0	0	
515	Mulakunnathukavu	14	7053		0	0				0				Mulakunnathukavu	0	0	0	0	
516	Mullassery	15	6753	413	67	0	0	0	0	0	0	0	0	0.002	0.002	0	0	0	
517	Mullurkkara	60	5927	1383	36	0	4	0	0	0	0	0	0	0	0	0	0	0	
518	Muriyad	17	9633	1180	100	1			100	0	0	0	0						

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519		Nadathara	17	10032	1658	100	0			100	50	100	50	2000Kg	2000Kg	2000Kg	1000Kg	500Kg
520		Nattika	14	6373	2514	84	0	11	0	60	45	0	0	2 ton	1 ton	0	0	0
521		Nenmanikkara	15	6745	1815	22	0	8	1	0	0	0	0	NA	NA	0	0	NA
522		Orumanayur	13	3035	249	0	0	0	0	0	0	0	0	NA	NA	NA	NA	NA
523		Padiyoor	14	6333	902	0	0	0	0	0	0	0	0	NA	NA	NA	NA	NA
524		Panchery	23	15443	3231	0	0	0	0	0	0	0	0					
525		Panjal	16	8250	1175	0	0	0	0	0	0	0	0	0	0	NA	NA	NA
526		Paralam	15	6085		6	0			0		0						
527		Parappukkara	18	9758	1789	90	0	31	0	0	31	0	0	0.5Ton	0.5Ton	0	0	0
528		Pariyaram	15	5406	8916	0	0	0	0	0	0	0	0	NA	NA	NA	NA	NA
529		Pavaratty	15	6755	1775	0	0	0	0	0	0	0	0	NA	NA	NA	NA	NA
530		Pazhayannur	22	13680	516	45	45	90	87	0	0	0	0	Not estimated	Not	Not	NA	NA
531		Perinjalam	15	6883	650	100		100		100	100							
532		Poomangalam	13	4336		0	0			0		0		Not estimated	Not	Not	Not estimated	NA
533		Porkulam	13	5471		0	0			0		0						
534		Poyya	15	7662		0	0			0		0						
535		Pudukad	15	7635	565	0	0	0	0	0	0	0	0	Not estimated	Not	Not	Not estimated	Not estimated
536		Punnayoorkulam	19	9516	2040	0	0	0	0	0	0	0	0	324	324	324	0	0
537		Punnayur	20	9972	2128	0	0	0	0	0	0	0	0	615	615	615	0	0
538		Puthenchira	15	16797	1107	0	0	0	0	0	0	0	0	115 ton	115	115	0	0
539		Puthur	23	13268	3186	9	0	2	0	0	0	0	0	55	10	0.1	0	0
540		Sreenarayanapuram	21	12471	2857	50	0	50	0	0	0	0	0	0.2	0.15	0	0	0
541		Talikulam	16	8164	420	29	0	100	0	0	0	0	0	50	30	30	0	0
542		Thanniyam	18	9782	5000	51	0	100	0	0	0	0	0	20 ton	20	20	0	0
543		Thekkumkara	18											5TON/DAY	0	5/TON	0	0
544		Thiruvilwamala	17	NA	NA													
545		Tholur	13	4388	30	0	0	83	0	0	0	0	0			20	na	na
546		Thrikkur	17	8552	1280	50	0	26	0	80	75	0	0	0.2	0.2	0.2	0	0
547		Vadakkkekad	16	8320	980	0	0	5	0	0	0	0	0	0	0	0	na	na
548		Valapad	20	10127	1767	4	0	0	0	1	1	0	0	not estimated	not estimated	not estimated	na	na
549		Vallachira	14	7320	670	0	0	0	0	0	0	0	0	0.05	0.04	0.04	0	0
550		Vallatholnagar	16	6378	1331	60	0	2	0	0	0	0	0	not estimated	not estimated	not estimated	0	0
551		Varandarappilly	22	13900	2601	0	0	0	0	5	0	0	0	not estimated	not estimated	not estimated	na	na
552		Varavoor	14	6451	911	0	0	0	0	0	0	0	0	not estimated	not estimated	not estimated	na	na
553		Vatanappally	18	7625	1236	8	0	2	0	0	0	0	0	not estimated	not estimated	not estimated	0	0
554		Vellangallur	21	12510	710	0	0	0	0	0	0	0	0	not estimated	not estimated	not estimated	0	0
555		Velukkara	18	8960	1766	0	0	0	0	6	1	0	0					
556		Velur	17	8430	1439	0	0	0	0	0	0	0	0	not estimated	not estimated	not estimated	0	0
557		Venkitangu	17															

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558	P	Agali	21	12739	2615	75	0	96	4	94	2	0	98					
559	A	Akathehtara	17	9500	1892	45	0	2	0	48	2	0	0		3500 kg	500 kg/ month	0	0
560	L	Alanallur	23	15185	4290	82	0	0	0	17	6	82	0	2140. kg	1400. kg	1400. kg	0	0
561	A	Alathur	16															
562	K	Ambalappara	20	12928	1432	87	0	0	0	0	29	0	0	6 Ton	6 Ton	Transported	0	0
563	K	Anakkara	16	7066	1401	70	0	0	0	0	0	0	0	0	0	0	0	0
564	A	Ananganadi	15	7526	985	10	0	20	0	15	0	0	0	0	0	0	0	0
565	D	Ayilur	17	8227	1289	85	2	0	0	0	0	0	0	0	0	0	0	0
566		Chalavara	15	6860	1048	0	0	0	0	0	0	0	0	0	0	0	0	0
567		Chalissery	15	6550	1200	100	0	100	100	15	8	0	0	100	0	0	0	0
568		Elappully	22	11815	2016	70	64	60	47	0	0	0	0	1100 Kg	1000 Kg	850 Kg	0	0
569		Elavanchery	14	5235	235	0	0	0	0	0	0	0	0	0.15	0.1	0	0	0
570		Erimayur	18	9482	889	0	0	0	0	0	0	0	0	0	0	0	0	0
571		Eruthenpathy	14	5681	362	22	52	32	43	0	0	0	0	0.05	0.02	0.03	0	0
572		Kadampazhipuram	18	9872	2239	90	0	69	0	0	0	0	0					
573		Kanjirappuzha	19	9944	1959	0	0	0	0	2	0	0	0	0.03	0.03	0	0	0
574		Kannadi	15	8063	1100	50	0	11	0	0	0	0	0					
575		Tarur	16	7784	44		0	0	0	0	1							
576		Kannambra	16	7950	650	45	0	100	0	0	0	0	0	0.10 tonne	0.05 tone	0.05 tone	0	0
577		Kappur	18	8902	1759	0	0	0	0	0	0	0	0	0.45	0	0	0	0
578		Karakurussi	16	7417	1490	0	0	100	0	100	2	0	0	0.05	0.01	0.01	0	0
579		Karimba	17	8870	2049	70	0	97	0	0	0	0	0					
580		Karimpuzha	18	9835	268	64	64	100	4	0	2	0	0	0.5	0.5	0.5	0	0
581		Kavassery	17	8966	218	7	0	12	0	0	0	0	0					
582		keralassery	13	4861	238	0	0	0	0	0	0	0	0	0.03	0.03	0.03	0	0
583		Kizhakkanchery	22	13196	2238	69	0	67	0	0	1	0	0	0.04	0.04	0.04	0	0
584		Kodumbu	15	8182	1323	85	84	90	90	28	4	0	0	7 tonnes	6 tonnes	6 tonnes	0.2 tonnes	0
585		Koduvayur	18	10181	465	0	0	0	0	5	75	0	0	1.05 tonne	1.05 tonne	1.05 tonne	205 kg	0
586		Kollenkode	18	7346	1345	0	0	157	240	0	0	0	0	1500	1200	1200	200	0
587		Kongad	18	9300	1684	100	0	48	0	54	42	100	42	500	500	500	0	0
588		Koppam	17	9915	3482	100	0	41	0	0	0	0	0	0.05	0.05	0.05	0	0
589		Kottaravi	15	6993	1774	10	0	45	0	5	1	0	0	0.05	0.05	0.05	0	0
590		Kottoppadam	22	13171	2843	0	0	30	0	0	0	0	0	0.05	0.05	0.05	0	0
591		Kozhinjampara	18	9119	1735	0	0	0	0	0	0	0	0					
592		Kulukkallur	17	8572	1787	79	0	0	58	0	0	0	0	0	0	0	0	0
593		Kumaramputhur	18	8902	1852	81	0	0	60	0	0	0	0	0.05	0.05	0.05	0	0
594		Kuthannur	16	6896	824	0	0	0	0	0	0	0	0	0	0	0	0	0
595		Kuzhalmannam	17	8923	283	100	0	0	100	0	0	0	0	0	0	0	0	0
596		Lekkidi-Perur																
597		Malampuzha	13															
598		Mankara	14	7125	1220	75	0	25	0	0	0	0	0	0	0	0	0	0
599		Mannur	14	5925	1300	48	0	19	0	0	0	0	0	0	0	0	0	0
600		Marutharoad	19	11926	2101	50	0	0	0	0	0	0	0					
601		Mathur	16	7924	676	73	0	100	0	0	0	0	0	0	0	0	0	0
602		Melarkode	16	7043	0	0	0	0	0	0	0	0	0	0	0	0	0	0
603		Mundur	18	9593	1819	0	0	0	0	0	0	0	0	0	0	0	0	0
604		Muthalamada	20	9704	2110	0	0	0	0	0	0	0	0	0	0	0	0	0
605		Muthuthala	15	6945	175	100	0	100	0	18	42	0	0	539.25	323.55	323.55	200.15	100.5
606		Nagalassery	17	8507	590	100	0	100	0	45	25	0	0					
607		Nallepilly	19	8095	448	100	0	100	0	0	0	0	0	0	0	0	0	0
608		Nellaya	19	10587	0	0	0			0								

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609		Nelliampathy	13	950	97	100	0	100	0	0	0	0	0	0	0	0	0	0
610		Nemmara	20	11815	2449	97	0	5	0	7	2	0	0	180 KG	172 KG	172	0	0
611		Ongallur	22	12811	3161	99	0	5	0	0	0	0	0	700 kg	0	0	0	0
612		Pallassena	16	8433	268	93	0	17	0	6	0	0	0	0	0	0	0	0
613		Parali	20	10752	2069	0	0	0	0	0	0	0	0	0	0	0	0	0
614		Paruthur	16	6082	728	0	0	0	0	0	0	0	0	0	0	0	0	0
615		Pattanchery	16	8829	150	0	0	0	0	0	0	0	0	na	na	na	na	na
616		Pattithara	18	9467	1784	0	0	0	0	4	7	0	0	0	0	0	0	0
617		Penumatti	18	9900	380	53	0	67	0	0	0	0	0	0	0	0	0	0
618		Perungottukurissi	16	9539		0	0			0		0						
619		Peruvemba	14	5757	700	0	0	0	0	0	0	0	0	500 kg	50kg	0	0	0
620		Pirayiri	21	13282	1959	0	0	0	0	0	0	0	0	1400 Kg	0	0	0	0
621		Polpully	13	5289	690	0	0	0	0	0	0	0	0	500 kg	0	0	0	0
622		Pookotukavu	13	4561	489	0	0	54	0	0	0	0	0	NA	NA	NA	NA	NA
623		Pudukkode	15	6294	6	0	0	0	0	0	0	0	0	NA	NA	NA	NA	NA
624		Pudunagaram	13	4248	875	12	0	0	0	0	0	0	0	NA	NA	NA	NA	NA
625		Puduppariyaram	21	12062	21	0	0	0	0	0	0	0	2381					
626		Pudur																
627		Pudusseri	23	16896	4062	0	0	0	0	0	0	0	0	NA	NA	NA	NA	NA
628		Sholayur	14	6926	275	0	0	0	0	0	0	0	0					
629		Sreekirshnapuram	14	5380	350	100		100		56				539.25	323.55	323.55	200.15	100.5
630		Thachampara	15	5502	868	0	0	0	0	0	0	0	0					
631		Thachanattukara	16	6085	170	100	0	0	0	0	0	0	0	153.6	37.2	NA	NA	NA
632		Tharur	16	7784	181	50	0	0	0	0	0	0	50	3.8384 tone	3.8384 tone	3.8384 tone	0	0
633		Thenkara	17	8347	1064	0	0	0	0	0	0	0	0	0	0	0	0	0
634		Thenkurussi	17	8348	820	72	0	56	0	0	0	0	0	0	0	0	0	0
635		Thirumittakkode	18	8300	450	0	0	0	0	0	0	0	0	0	0	0	0	0
636		Thiruvegappura	18	8684	1585	0	0	0	0	0	0	0	0	0	0	0	0	0
637		Thrikkaderi	16	6698	279	0	0	0	0	0	0	0	0	0	0	0	0	0
638		Thrithala	17	8429	424	0	0	0	0	0	0	0	0	8 tone	7 tone	7 tone	0	0
639		Vadakarappathy	17	9066	912	20	0	20	0	5	10	0	0	1	0.25	0	0	0
640		Vadakkanchery	20	10360	829	7	0	29	16	20	29	0	0	4 tone	2 tone	1 tone		
641		Vadavannur	13	5074	980	0	0	0	0	0	0	0	0	0	0	0	n	n
642		Vallapuzha	16	8838	1547	0	0	0	0	0	0	0	0	0	0	0		
643		Vandazhi	19	10149	738	90	0	20	0	90	20	0	0	0	0	0	0	0
644		Vaniyamkulam	18	10199	815	0	0	0	0	23	74	0	0	5000kg	3000kg	3000	0	0
645		Vellinezhi	13	5147	281	100	0	100	0	100	100	0	0	840	600	600	600	0
646		Vilayur	15	6953		0	0			92		0						

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647	M	Alamkodu	19	11127	200	75	25	0	0	0	0	0	0					NIL
648	A	Aliparambu	21	11621	1982	0	0	0	0	0	0	0	0	0.05	0.05	0.05	NA	NA
649	L	Amarambalam	19	7841	604	100	0	100	0	0	0	0	0	0.045	0.045	0.045	0.045	Nil
650	A	Anakkayam	23	15424	305	100	0	100	0	0	0	0	0	0.05	0.05	0.05	0.05	Nil
651	P	Angadipuram	23	15220	4201	75	25	90	10	50	50	50	50	0.05	0.05	0.05	0.05	nil
652	P	Areekkode	18	8536	4718	0	0	0	0	13	18	0	0					
653	U	Athavanadu	22	12145	3512	0	0	0	0	18	22	0	0	0.04	0.04	0.25	0.15	NIL
654	R	Chaliyar	14	6361	267	100	0	100	0	12	82	0	2	0.02	0.02	0.02	0.02	0.02
655	A	Cheekkode	18											0.075	0.03	0.03	0.02	0.01
656	M	Chelambra	18	10601	1888	100	0	0	0	10	5	0	0	0.075	0.035	0.035	0.02	nil
657		Cheriyamundam	18	6540	420	100	0	100	0	0	0	0	0	0.035	0.035	0.035	0.02	0.02
658		Cherukavu	19	11042	426	100	0	100	0	0	0	0	0	0.045	0.045	nil	nil	nil
659		Chokkadu	18	9284	254	0	0	0	0	0	0	0	0	0	0	0	0	0
660		Chunkathara	20											0.09	0.09	0.09	0.09	nil
661		Edakkara	16	8675	486	73	0	55	0	9	45	0	1	0.055	0.055	0.055	0.055	0.055
662		Edappal	19	9438	3437	100	0	58	0	14	1	0	0	0.04	0.04	0.04	0.04	0.04
663		Edappatta	15	4996	110	22	0	18	0	27	1	0	0	0.036	0.036	0	0	0
664		Edarikkode	16	6500	NIL									0	0	0	0	0
665		Edavanna	22	11141	3978	92	0	75	0	18	6	0	0	0.06	0.06	0.06	0.06	0.06
666		Edayur	19	8706	1796	29	0	0	0	7	0			0.2	nil			
667		Elamkulam	16	7919	314	65	0	55	0	45	18	0	0	0.05	0.05	0.04	Nil	Nil
668		Irimbiliyam	17	8308	1730	0	0	0	0	8	0	0	0					
669		Kaladi	16	7529	1964	24	0	15	0	0	0	3		0.13	0.11	nil	nil	nil
670		Kalikavu	19	10292	470	0	0	0	0	48	10	0	0	0.065	0	0	0	0
671		Kalpakanchery	19	9844	3364	0	0	0	0	0	0	0	0	0.035	0.035	0.035	0	0
672		Kannamangalam	20	10141	2793	30	0	30	0	10	10	0	0	1	1.1	1.2	0	0
673		Karulai	15	5625	220	100	0	100	0	0	0	0	3	0.05	0.05	0.05	0.05	0.05
674		Karuvarakkundu	21	9967	295	0	0	0	0					0	0	0	0	0
675		Kavannoor	19	9586	346	0	0	0	0									
676		Keezhattur	19	8387	1546	64	0	33	0	18	3	0	0	0.68	0.5	0.5	0	0
677		Keezhuparambu	14	6050	262	0	0	0	0	0	0	0	0	0	0	0	0	0
678		Koddu	19	10290	220	0	0	0	0	8	0	0	0					
679		Koottilangadi	19	10058	3274	100	0	100	0	0	0	0	0	0.035	0.035	0.035	0.035	NIL
680		Kuruva	22	13895	3813	60	0	70	0	10	10	0	0	0.04	0.04	0.04	0.04	0
681		Kuttippuram	23	13613	3568	65	0	75	0	35	70	0	0	0.045	0.045	0.045	0.045	0
682		Kuzhimanna	18	9400	542	60	0	60	0	40	40	0	0	0.025	0.025	0	0	0
683		Makkaraparambu	13	5861	394	100	0	100	0	0	0	0	0	0.2	0.2	0.2	0.2	0.013
684		Mambad	19	9850	220	0	0	0	0	8	0	0	0	0.3	0.3	0.3	0	0
685		Mangalam	20	7866	7866	100	324	324	100	61	46	0	0	0.02	0.02	0.02	0	0
686		Mankada	18	9845	200	0	0	100	0	91	100	0	0	0.1	0.1	0.1	0	0
687		Marakkara	20	7715	342					46	158			0.5	0.5	0.5	0.5	0
688		Maranchery	19	10699	2291	100	0	0	100	100	100	0	0	0.5	0.5	0.5	0.3	0
689		Melattur	16	8402	127	60	0	25	0	35	60	0	0	0.02	0.02	0.02	0.02	0
690		Moorniyur	23	14450	686	60	0	40	0	10	5	0	0	0.05	0.05	0.05	0	0
691		Moorkkanadu	19	8452	385	76	24	70	30	0	0	0	0	0.15	0.15	NIL	0.1	NIL
692		Morayur	18	8745	313	60	0	100	0	1	8	60	100	0.15	0.15		0.12	0
693		Muthedam	15	7145	204	100	24	100	0	24	100	0	0	0.1	0.1	0.1	0.05	0
694		Muthuvallur	15	6347	167	75	25	60	40	90	100	0	0	0.5	0.5	0.5	0.5	0
695		Nannambra	21	9100	3000	0	0	0	0	0	0	0	0	0.032	0.032	0	0	0
696		Nannamukku	17	6752	400	48	0	100	0	10	5	0	0	0.02	25	0	0	0

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697		Niramaruthur	17	7969	1156	0	0	0	0	0	0	0	0	0.03	0	0	0	0
698		Orakam	17	7995	256	11	0	14	0	0	0	0	0	0.075	0.075	0.075	0	0
699		Othukkungal	20	10666	2844	50	0	100	0	90	90	90	90	0.055	0.03	0	0	0
700		Ozhur	18	7996	252	30	0	40	0	20	60	0	0	0.025	0.02	0	0	0
701		Pallikkal	22	12642	4297	47	5	32	8	0	0	0	0	0.02	0	0	0	0
702		Pandikkad	23	15510	482	0	0	0	0	0	0	0	0	0.1	0	0	0	0
703		Parappur	19	9574	1919	0	5	0	0	0	0	0	0	0	0	0	0	0
704		Perumanna Klari	16	7553	2123	2	0	0	0	1	5	0	0	0	0	0	0	0
705		Perumpadappu	18	8127	1647	4	2	33	8	2	8	0	0	0	0	0	0	0
706		Peruvallur	19	9124	30	75	30	0	0	0	10	0	0	0.05	0.01	0	0	0
707		Ponmala	18	7237	1302	0	0	0	0	0	0	0	0	0	0	0	0	0
708		Ponmundam	16	6657	329	100	100	40	20	0	2	2	0	0.05	0.05	0.05	0	0
709		Porur	17	9076	1482	0	0	0	0	0	0	0	0	0.1	0.03	0	0	0
710		Pothukallu	17	10427	726	0	0	0	0	0	0	0	0	0	0	0	0	0
711		Pukkottur	19	8785	689	0	0	0	0	0	0	0	0	0	0	0	0	0
712		Pulamanthol	20	12698	1200	12	10	25	23	3	3	0	0	0.05	0	0	0	0
713		Pulikkal	21	10949		5	0	0	0	0	0	0	0	0.02	0.02	0.02	0	0
714		Pulpatta	21	11886	2287	100	0	100	0	0	0	0	0	0.05	0.05	0.05	0	0
715		Purathur	19	6959	1689	100	100	40	0	25	0	0	0	0.015	0.015	0.015	0	0
716		Puzhakkatteeri	17	9386	340	100	0	100	0	0	29	100	100	4	0	3.5	0	0
717		Thalakkadu	19											0.02	0.015	0	0	0
718		Thanalur	23	13527	1436	100	0	82	0	0	0	0	0	0.05	0.06	0.06	0	0
719		Thavannur	19	10047	800	100	0	100	0	54	40	0	0	0.18	0.15	0.15	0	0
720		Thazhakkode	21	10080	6	100	0	83	0	64	83	0	0	1.5	1.35	0	0	0
721		Thenhippalam	17	9821		0	0			69		0	0	0	0	0	0	0
722		Thennala	17	7131	0	0	0			100		0	0					
723		Thirunavaya	23	13052	13125	83	0					0	0	0	0	0	0	0
724		Thiruvai	16	7182	16	100	0	0	0	97	63	0	0	0	0	0	0	0
725		Thrikkalangodu	23	14903	2436													
726		Thriprangode	21	8575	1100	100	0	60	0	65	0	0	0	0.75	0.65	0	0	0
727		Tuvvur	17	6500	220	100	0	100	0	45	0	0	0	0.35		0	0	0
728		Urgantheeri	21	11046	2203													
729		Valavannur	19	9139	2182	100	0	50	0	4	0	0	0	0.025	0.03	NA	0.05	NA
730		Vallikkunnu	23	13999	2715	100	0	100	0	35	25	0	0	0.35	0	NA	0.1	NA
731		Vattakkulam	19	11117	4986													0
732		Vazhakkad	19	13445	3450													
733		Vazhayaur	17	9402	2216	100	0	100	0	100	100	0	0	0.18	0.15	0.14	0	0
734		Vazhikkadavu	23	14141	3111	0	0	0	0	0	0	0	0	16	11	8	0	0
735		Velijankode	18	9221	2081													
736		Vengara	23	10852		0	0					0	0	NA	NA	NA	NA	NA
737		Vettathur	16											25	20	14	15	15
738		Vettom	20	8313	1892	100		0	0	0	0	0	0			0	0	0
739		Wandoor	23											NA	NA	NA	NA	NA
740		Kainakary	30	5335		100	0	100	0	100	100	0	0	0.7	0.5	0.5	0	0

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741	K O Z H I K O D E	Arrikkulam	13	4409	1178	91	0	85	0	22	30	91	85	15 kg	15kg	15 kg	0	0
742		Atholy	17	7193	1966	71	0	81	0	13	10	71	81	20 KG/DAY	20 KG/DAY	20 KG/DAY	0	0
743		Ayancheri	17	8354	2857	0	0	0	0	30%	5%	100	5	1 TON	1 TON	1 TON	0	0
744		Azhiyur	18	7900	561	63	0	80	0	100	100	0	0	800Kg/day	800Kg/day	800Kg/day	0	0
745		Balusseri	17	8779	1715	97	0	96	10	90	80	0	0	1200 kg/day	1200 kg day	1200 kg /day	0	0
746		Chakkittappara	15	6916	1811	80	0	79	0	90	90	0	0	20 KG/DAY	20 KG/DAY	20 KG/DAY	0	0
747		Changaroth	19	9963	2737	100	0	92	16	86	92	0	0	25 Kg / day	25 Kg/ day	25Kg/day	0	0
748		Chathamangalam	23	15068	3746	34	0	12	8	24	82	0	0	20 kg/day	20 kg/day	20 kg/day	0	0
749		Chekkiad	15	6544	1823	4	0	1	0	0	0	0	0	5 ton	5 ton	0	0	0
750		Chellanur	21	12483	2250	6	0	0	0	0	0	0	0	20kg/dy	20kg/dy	0	0	0
751		Chemmanchery	20	11521	3090	7	0	0	0	0	0	0	0	1589	1389QUINT	1389QUIN	0	0
752		Chengottukavu	17	6990	350	100	0	310	0	55	80	0	0	5 TPD	5	5	0	0
753		Cheruvannur	15	6772	1465	50	0	0	19	10	0	0	0	4T	4T	0	0	0
754		Chorode	21	10118	860	30	0	4	6	11	2	0	0	6	6	0	0	0
755		Edachery	17	7936	514	100	0	195	0	19	146	0	0	5 ton	5 ton	0	0	0
756		Eramala	19	9407	2000	79	0	100	8	84	120	0	0	240 kg	240kg	0	240kg	0
757		Kadalundy	22	10742	2815	74	0	43	0	93	53	0	0	10 TONE	10 TONE	0	0	0
758		Kakkodi	21	12913	2472	100	0	42	0	50	8	0	0	0.25 TONE	0.25 TONE	0	0	0
759		Kakkur	15	5950	1141	76	0	61	7	0	0	0	0	120	120 KG	0	120KG	0
760		Karassery	18	9961	3007	69	0	100	7	0	0	0	0	0.1	0.1	0	0	0
761		Kattippara	15	5668	664	0	0	0	0	0	0	0	0	110kg	145 KG	0	0	0
762		Kavilumpara	16	7471	2028	67	0	38	0	100	46	67	47	0.27 Ton/Day	1.5 TONS	0	0	0
763		Kayakkody	16	6143	1355	79	0	47	0	100	100	0	0	350KG/DAY	350KG/DAY	0	0	0
764		Kayanna	13	4430	624	78	0	100	0	100	100	0	0	85	85	0	0	0
765		Keezhariyur	13	4639	590	0	0	0	0	0	0	0	0	0.15	0.15	0	0	0
766		Kizhakkoth	18	9183	3773	69	0	67	0	95	86	0	0	105kg	105 kg	0	0	0
767		Kodenchery	21	10848	865	58	0	0	0	67	87	0	0	20 KG/day	20 KG	0	0	0
768		Kodiyathoor	16	8383	4710	100	0	100	0	0	100	0	0	210kg	210kg	0	0	0
769	Koodamangalam	14	6900	518	55	0	52	0	1	0	0	0	0.3 ton/day	ton/day	0	0	30	
770	Koorachund	13	5601	1369	40	0	0	0	70	60	0	0	350	300	0	0	0	
771	Koothali	13	5737	412	18	0	0	0	0	0	0	0	200	150	0	0	0	
772	Kottur	19	7830	1050	70	51	48	33	100	100	0	0	150kg/day	100kg/day	0	0	0	
773	Kunnamangalam	23	17474	5898	0	0	11	0	100	100	0	0	450 kg/day	425 kg/day	0	0	0	
774	Kunummal	13	5668	2124	100	0	100	0	100	100	0	0	160 Kg / Day	140 Kg / Day	140 Kg / Day	0	0	
775	Kuruvattur	18	11425	3015	0	0	303	48	80	48	0	0	400 Kg/Day	400 Kg/Day	400 Kg/Day	0	0	
776	Kuttiady	14	6083	4241	69	0	143	0	100	100	0	0	170 kg/Day	155Kg/Day	155 Kg/Day	0	0	
777	Madavoor	17	7126	1383	100	0	29	0	15	1	0	0	300	250	250	0	0	
778	Maniyur	21	12421	1412	35	0	445	0	5	1	0	0	2.5	1 ton / month	0	0	0	
779	Maruthonkara	14	6763	805	100	0	68	0	41	11	0	0	158K.G./Day	135K.G/Day	135 kg/Day	0	0	
780	Mavoor	18	9027	1190	65	0	60	0	22	12	0	0	120 Kg / Day	100kg/day	100	0	0	
781	Meppayur	17	7308	1840	89	0	100	0	89	100	0	0	0.2	0.18	0.18	0	0	
782	Moodadi	18	8594	2284	100	0	100	0	92	100	0	0	138 T	138 T	138 T	5 T	0	
783	Nadapuram	22	11000	1500	87	0	0	0	100	100	0	0	5.5 ton per day	4.6 ton per day	0	0	0	
784	Naduvannor	16	7050	2090	80	0	80	0	72	72	0	0	8.50 ton	2.50 ton	0	0	0	

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785		Nanminda	17	8780	1192	100	0	100	0	100	100	0	0	NOT	NOT	0	0	0
786		Narikkuni	15	6302	2909	0	0	217	0	70	65	0	0	112 ton	NOT	NOT	NOT	NOT
787		Narippatta	17	7609	1236	96	0	28	0	90	100	0	0	NOT	NOT	NOT	NOT	NOT
788		Nochad	17	6800	950	40	0	20	0	80	70	0	0	Not measured	3412kg	3412 kg	NA	0
789		Olavanna	23	18531	6560	0	0	0	0	75	65	0	0	Not measured	Not measured	Not	Not measured	Not measured
790		Omassery	19	10612	3516	57	0	0	0	85	70	0	0	Not measured	2.5 TON	2.5 TON	0	0
791		Onchiyam	17	7843	2376	100	0	18	0	70	20	0	0	2 T	2 T	0	0	0
792		Panangad	20	8916	1969	65	0	75	0	80	70	0	0	Not measured	2.5 ton	2.5 ton	0	0
793		Perambra	19	9640	1450	85	0	62	0	85	48	0	0	not measured	4.5	4.5	0	0
794		Perumanna	18	11635	1012	82	0	18	0	80	0	0	0	0.90 ton	0.90 ton	0.90 ton	0	0
795		Peruvayal	22	15467	1310	100	0	100	0	100	100	0	0	5 ton	5 ton	5 ton	0	0
796		Purameri	17	8206	1948	24	0	421	0	100	100	0	0	0.20/0.16 tpd	0	0	0	0
797		Puthuppady	21	14588	3269	118	0	300	0	130	0	0	0	5 ton	5 ton	0	0	0
798		Thalakulathur	17	8978	1520	75	0	0	0	75	2	0	0	4ton	4 ton	0	0	0
799		Thamarassery	19	9730	1432	84	0	84	84	0	0	0	0	0.74	0.74	0.74	0	0
800		Thikkodi	17	8561	1828	2	0	0	0	0	0	0	0	5 ton	5 ton	5 ton	0	0
801		Thiruvallur	20	8946	2339	100	0	3	0	0	0	0	0	1.5	1.2	0	0	0
802		Thiruvambady	17	9493	2793	28	0	34	0	28	34	0	0	5.5	3.8	3.8	0	0
803		Thurayur	13	3943	1158	100	0	100	0	0	0	0	0	0.2	0.18	0.18	0	0
804		Tuneri	15	7067	1377	0	0	0	0	1	0	93	65	747.5161 M3	747.5161 M3	747.5161	0	0
805		Ulliyeri	19	9958	2262	0	0	286	0	100	44	60	0	9.08	1.8	0	0	0
806		Unnikulam	23	13779	3355	0	0	100	0	100	100	0	0	200 ton	200 ton	0	0	0
807		Valayam	14	4485	957	56	0	31	0	100	30	0	0	0.05	0.04	0.05	0	0
808		Vanimel	16	7340	2035	100	0	51	0	100	100	0	0	15 kg	15kg	15 kg	0	0
809		Velom	17	6754	2936	100	0	100	0	100	100	0	0	150	148	148	0	0
810		Villappalli	19	9962	3493	60	0	60	0	100	65	0	0	8.2	5	5	0	0
811	W	Ambalavayal	20	10291	4579	33	0	7	0	0	0	0	0	4tone	3 tone	3tone	Nil	Nil
812	A	Edavaka	19	9519	744	89	0	40	0	0	0	0	0	4 tone	3 tone	2 tone	3 tone	nil
813	Y	Kaniyambetta	18	11791	2207	24	0	18	0	0	0	0	0	8 tone	6 tone	3 tone	3 tone	nil
814	A	Kottathara	18	9979	540	69	0	100	0	100	100	0	0	NA	NA	NA	NA	NA
815	N	Meenangadi	13	5293	622	0	0	0	0	100	100	0	0	2	1	1	2	1
816	A	Meppadi	19	8735	1000	100	0	100	0	100	100	0	0	NA	NA	NA	NA	NA
817	D	Mullankolly	22	10616	813	100	0	100	0	36	70	0	0	1.2. tone	1.2. tone	0	0	0
818		Muppainadu	18	8756	652	0	0	0	0	0	0	0	0	3 tone	0	0	0	0
819		Muttil	19	7667	575	100	0	100	0	100	100	0	0	5 tonne	3.5 tonne	3.5 tonne	3 tonne	0
820		Nenmeni	19	10002	692	100	0	100	0	100	100	0	0	10 tone	7 tone	3 tones	0	0
821		Noolpuzha	23	14755	703	61	0	100	100	100	100	0	0	4 Tone	3 Tone	3 Tone	3 Tone	0
822		Padinharathara	16	6624	472	100	0	100	0	13	38	0	0	1.652 TONE	1.652 TONE	0	0	0
823		Panamaram	16	7244	347	83	83	69	0	83	0	0	0	0	0	0	0	0
824		Poothadi	23	13782	400	100	0	46	0	0	0	0	0	0.06	0.05	0.05	0	0
825		Pozhuthana	13	5783	2004	38	0	2	0	100	100	0	0	2 tone	1 tone	1	1	0.5 tone
826		Pulppalli	20	10437	3147	30	0	33	0	11	0	0	0	3	3	2	1	0
827		Thariode	13	3671	740	100	0	100	0	0	0	0	0	NA	NA	NA	NA	NA
828		Thavinhal	22	10433	700	25	0	0	0	100	100	0	0	4	2	NIL	NIL	NIL
829		Thirunelly	17	8620	1405	25	0	0	0	0	0	0	0	0	0	0	0	0
830		Thondernadu	15	7687	1320	42	0	30	0	0	0	0	0	2Tone	2Tone	Nil	Nil	Nil
831		Vellamunda	21	11620	1439	0	0	30	0	0	0	0	0	5.5	0	0	Nil	Nil
832		Vengappalli	13	2730	195	69	0	100	0	0	0	0	0	1.5	1.5	0	0	0
833		Vythiri	14	6086	1582	100	0	100	0	100	100	100	100	50 kg	50 kg	50 kg	35 kg	0
834	K	Alakode	21	9950	2160	100	0	100	0	100	100	0	0	2.07	0.0811	2.07	0	0

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SL NO:	DISTRICT	LOCAL BODY	NO OF WARDS	No of Household	% Household D2D-Dry	% of Household-D2D-Wet	No of establishment	%establishment -D2D-Dry	% establishment _D2D-Wet	% of houses in which source level tretment	% of establishment in which source level treatment	% disposing to centralised system	% disposing to centralised system	Quantity of Waste generated (TPD)	Quantity of Waste collected (TPD)	Quantity of Waste treated (TPD)	Quantity of Waste processed in Composting Sites (TPD)	Quantity of Waste processed in biomethanation (TPD)
835	A	Anjarkkandi	15	6471	759	100	0	100	0	100	100	0	0	1.39	0.04565	1.39	0	0
836	N	Aralam	17	9215	289	100	0	100	0	100	100	0	0	1.88	0.03244	1.88	0	0
837	N	Ayyankunnu	16	7546	405	100	0	100	0	100	100	0	0	1.54	0.03437	1.54	0	0
838	U	Azhikode	23	13408	380	100	0	100	0	100	100	0	0	2.73	0.04629	2.73	0	0
839	R	Chapparappadavu	18	10255	212	100	0	100	0	100	100	0	0	2.09	0.04264	2.09	0	0
840		Chembilode	19	8700	381	100	0	100	0	100	100	0	0	1.77	0.03225	1.77	0	0
841		Chengalai	18	9270	370	100	0	100	0	100	100	0	0	1.89	0.04031	1.89	0	0
842		Cherukunnu	13	4628	558	100	0	100	0	100	100	0	0	0.95	0.02245	0.95	0	0
843		Cherupuzha	19	8028	457	100	0	100	0	100	100	0	0	1.85	0.04071	1.85	0	0
844		Cheruthazham	17	10898	628	100	0	100	0	100	100	0	0	2.22	0.04265	2.22	0	0
845		Chirakkal	23	14173	1337	100	0	100	0	100	100	0	0	2.96	0.1232	2.96	0	0
846		Chittariparamba	15	7131	370	100	0	100	0	100	100	0	0	1.45	0.0273	1.45	0	0
847		Chokii	17	8343	620	100	0	100	0	100	100	0	0	1.71	0.04159	1.71	0	0
848		Dharmadam	18	8765	866	100	0	100	0	100	100	0	0	2.34	0.04172	2.34	0	0
849		Eramam-Kuttoor	17	7011	674	100	0	100	0	100	100	0	0	1.44	0.0364	1.44	0	0
850		Eranholi	16	8224	462	100	0	100	0	100	100	0	0	1.68	0.03231	1.68	0	0
851		Eruvessi	14	5196	198	100	0	100	0	100	100	0	0	1.06	0.02243	1.06	0	0
852		Ezhom	14	4297	472	100	0	100	0	100	100	0	0	0.88	0.02019	0.88	0	0
853		Irikkoor	13	3500	700	100	0	100	0	100	100	0	0	0.72	0.02363	0.72	0	0
854		Kadamboor	13	4520	450	100	0	100	0	100	100	0	0	0.93	0.02254	0.93	0	0
855		Kadannapally-Panapuzha	15	8596	542	100	0	100	0	100	100	0	0	1.78	0.04417	1.76	0	0
856		Kadirur	18	7684	494	100	0	100	0	100	100	0	0	1.82	0.03151	1.82	0	0
857		Kallisseri	18	9570	650	100	0	100	0	100	100	0	0	3.11	0.19594	3.11	0	0
858		Kanichar	13	5008	278	100	0	100	0	100	100	0	0	1.02	0.01954	1.02	0	0
859		Kankol-Alappadamba	14	5775	506	100	0	100	0	100	100	0	0	2.84	0.04425	2.84	0	0
860		Kannapuram	14	6214	585	100	0	100	0	100	100	0	0	2.81	0.20773	2.81	0	0
861		Karivloor-Perlam	14	6520	650	100	0	100	0	100	100	0	0	6.43	0.8963	4.33	0	0
862		Kelakam	13	5379	554	100	0	100	0	100	100	0	0	1.1	0.02482	1.1	0	0
863		Keezhallur	14	6755	836	100	0	100	0	100	100	0	0	205.01	0.3886	5.01	0	0
864		Kolambur	17	7903	2584	100	0	100	0	100	100	0	0	1.87	0.05566	1.87	0	0
865		Kolayad	14	5823	483	100	0	100	0	100	100	0	0	3.11	0.02888	3.11	0	0
866		Koodali	18	8625	512	100	0	100	0	100	100	0	0	1.76	0.03509	1.76	0	0
867		Kottayam	14	4703	1400	100	0	100	0	100	100	0	0	0.98	0.03887	0.98	0	0
868		Kottivoor	14	5288	550	100	0	100	0	100	100	0	0	1.08	0.02431	1.08	0	0
869		Kunhimangalam	14	5945	507	100	0	100	0	100	100	0	0	202.63	0.0299	2.63	0	0
870		Kunnothparamba	21	11494	500	100	0	100	0	100	100	0	0	4.51	0.84256	4.51	0	0
871		Kurumathoor	17	11252	616	100	0	100	0	100	100	0	0	2.3	0.05344	2.3	0	0
872		Kuttiattur	16	8388	2131	100	0	100	0	100	100	0	0	1.74	0.05855	1.74	0	0
873		Madayi	20	9574	525	100	0	100	0	100	100	0	0	1.96	0.04378	1.96	0	0
874		Malappattam	13	2807	128	100	0	100	0	100	100	0	0	0.53	0.00987	0.53	0	0
875		Maloor	15	6914	428	100	0	100	0	100	100	0	0	1.42	0.03235	1.42	0	0
876		Mangattidom	19	10654	450	100	0	100	0	100	100	0	0	2.17	0.03924	2.17	0	0
877		Mattool	17	6089	356	100	0	100	0	100	100	0	0	1.25	0.02817	1.25	0	0
878		Mayyil	18	9643	745	100	0	100	0	100	100	0	0	1.97	0.04059	1.97	0	0
879		Mokeri	14	5761	440	100	0	100	0	100	100	0	0	1.18	0.0282	1.18	0	0
880		Munderi	20	8979	560	100	0	100	0	100	100	0	0	1.83	0.03579	1.83	0	0
881		Muzhakkunnu	15	7412	1384	100	0	100	0	100	100	0	0	1.53	0.04856	1.53	0	0
882		Muzhappilangad	15	5929	230	100	0	100	0	100	100	0	0	1.21	0.02153	1.21	0	0

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883		Naduvil	19	8805	280	100	0	100	0	100	100	0	0	1.8	0.03722	1.8	0	0
884		Narath	17	7821	711	100	0	100	0	100	100	0	0	1.59	0.02818	1.59	0	0
885		New Mahi	13	4417	402	100	0	100	0	100	100	0	0	0.91	0.02259	0.91	0	0
886		Padiyoor	15	6400	180	100	0	100	0	100	100	0	0	1.3	0.02222	1.3	0	0
887		Panniannur	15	8892	319	100	0	100	0	100	100	0	0	1.37	0.02988	1.37	0	0
888		Pappinisseri	20	10580	680	100	0	100	0	100	100	0	0	2.67	3.05247	2.67	0	0
889		Pariyaram	18	11073	720	100	0	100	0	100	100	0	0	2.47	0.05232	2.47	0	0
890		Pattiam	18	9152	546	100	0	100	0	100	100	0	0	1.87	0.0381	1.87	0	0
891		Pattuvam	13	3938	227	100	0	100	0	100	100	0	0	0.81	0.01817	0.81	0	0
892		Payam	18	7462	470	100	0	100	0	100	100	0	0	1.52	0.02981	1.52	0	0
893		Payyavoor	16	5698	496	100	0	100	0	100	100	0	0	1.17	0.02881	1.17	0	0
894		Peralasser	18	8835	465	100	0	100	0	100	100	0	0	2.1	0.03392	2.1	0	0
895		Peravoor	16	6800	100	100	0	100	0	100	100	0	0	1.39	0.027	1.39	0	0
896		Peringome-Vayakkara	16	9875	350	100	0	100	0	100	100	0	0	2.06	0.08737	2.06	0	0
897		Pinarayi	19	10280	681	100	0	100	0	100	100	0	0	2.1	0.04877	2.1	0	0
898		Ramanthali	15	6502	503	100	0	100	0	100	100	0	0	2.15	0.04538	2.15	0	0
899		Thillankeri	13	4534	401	100	0	100	0	100	100	0	0	1.43	0.02302	1.43	0	0
900		Thrippangottoor	18	9070	301	100	0	100	0	100	100	0	0	1.85	0.03218	1.85	0	0
901		Udayagiri	15	6231	254	100	0	100	0	100	100	0	0	1.27	0.02718	1.27	0	0
902		Ulikkal	20	11958	550	100	0	100	0	100	100	0	0	2.79	0.039472	2.79	0	0
903		Valapattanam	13	1800	1594	100	0	100	0	100	100	0	0	0.35	0.02991	0.35	0	0
904		Vengad	21	12883	820	100	0	100	0	100	100	0	0	2.59	0.05248	2.59	0	0
905	K	Ajanur	23	15573	10573	68	0	700	80	0	70	60	0	0.04	0.04	0.04	0	0
906	A	Badiadka	19	12867	9654	75	0	630	40	0	65	45	0					
907	S	Batal	16	8585	6585	77	0	260	100	0	100	85	0	0.85	m	nil	0.85	0
908	A	Bedadka	17	8829	6200	70	0	635	100	0	80	86	0	0.2523	0.023	0.023	0.023	0
909	R	Belloor	13	3424	2051	60	0	325	100	0	70	80	0	0.0625	0.0625	0		
910	G	Chemnad	23	15169	9169	60	0	436	75	0	8	68	0	0.12150	0.154	0	0	0
911	O	Chengla	23	18355	5368	29	0	3845	20	0	98	85	0	0.400	d & treated at	0	0	0
912	D	Cheruvathur	17	6623	4623	70	0	220	84	0	86	81	0	0.24	0.195	0.195	0	0
913		Delampady	16	5274	5274	100	0	46	60	0	80	70	0	0.006	0.006	0.006	nil	nil
914		East Eleri	16	8295	7295	88	0	453	50	0	90	57	0	nil	nil	nil	nil	nil
915		Enmakaje	17	5535	4535	82	0	140	40	0	56	75	0					
916		Kallar	14	7013	6013	86	0	92	90	0	60	80	0	0.0133	0.0133	0.0133	0	0
917		Karadka	15	6183	5183	84	0	1374	70	0	60	85	0	0.012	0	0	0	0
918		Kodom Belur	19	8163	6163	75	0	630	65	0	58	78	0					
919		Kayyur Cheemeni	16	9356	8356	89	0	636	85	0	84	90	0	0	0	0	0	0
920		Kinanoor Karinthalam	17	9648	7448	77	0	620	100	0	100	100	0	150	100	100	0	0
921		Kumbdaje	13	4605	2005	44	0	110	100	0	89	95	0	0	0	0	0	0
922		Kumbala	23	12355	8500	69	0	340	54	0	54	55	0					
923		Kuttikol	16	7250	5430	75	0	450	70	0	63	66	0	0	0	0	0	0
924		Madhur	20	13393	13393	100	0	418	52	0	56	58	0	1	0.3	0	0	0
925		Madikai	15	6331	6331	100	0	217	100	0	100	100	0	0.7	0.7	0	0	0
926		Mangalpady	23	13650	8500	62	0	2500	40	0	32	40	0					
927		Manjeshwar	21	11500	6060	53	0	300	45	0	45	45	0					
928		Meenja	15	7111	7111	100	0	166	54	0	68	78	0	0.7	0	0	0.7	0
929		Mogral Puthur	15	7011	6011	86	0	300	69	0	78	89	0	0.2	0	0	0	0

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930		Muliyar	15	7523	6523	87	0	253	70	0	78	84	0	0.2	0	0	0	0
931		Padne	15	6400	4400	69	0	520	65	0	87	87	0	0.2	0	0	0.2	0
932		Paivalike	19	9709	5700	59	0	260	68	0	68	75	0	0.5	0.2	0.3	0.2	0
933		Pallikkare	22	15177	12177	80	0	644	90	0	94	96	0	0.15	0.15	0.15	0	0
934		Panathady	15	7426	6426	87	0	357	85	0	85	83	0	0.73	0	0	0	0
935		Pilicode	16	6842	5932	87	0	473	84	0	90	84		0.62				
936		Pullur Periya	17	10644	9644	91	0	500	100	0	90	90	0	0.58	0.58	0.52		
937		Puthige	14	7078	5078	72	0	1081	50	0	48	50	0	1.09	1.09	1.09	0	0
938		Trikaripur	21	11733	8700	74	0	946	60	0	62	53		0.125	0.125			
939		Udma	21	11332	9622	85	0	617	100	0	64	54	0	0.15	0.15	0.15	0	0
940		Valiyaparamba	13	6861	4800	70	0	100	100	0	84	70	0	0.18	0.18	0.18	0	0
941		Vorkady	16	6834	4800	70	0	200	40	0	85	64	0	0.16	0.16	0	0	0
942		West Eleri	18	6974	5474	78	0	220	70	0	60	87	0	0.75	0.75	0.72	0.02	Nil

ANNEXURE III

Telephone: 0471-2303844
e.mail: kspcbdotvm@yahoo.com

KERALA STATE POLLUTION CONTROL BOARD

കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്



DISTRICT OFFICE, THIRUVANANTHAPURAM
ജില്ലാ ഓഫീസ്, തിരുവനന്തപുരം

T. C. 12/96 (4,5), PLAMOODU JN., PATTOM P.O. THIRUVANANTHAPURAM - 695 004

ടി.സി. 12/96 (4,5), പ്ലാമൂട് ജംഗ്ഷൻ, പട്ടം പി.ഒ, തിരുവനന്തപുരം - 695 004

ANALYSIS REPORT

No: 202176

Date: 03/07/2020

Source		Dumpsite of Attingal Municipality (Leachite Sample)		
Sample received from		TAI	Date of sample collection	24/06/2020
Date of Receipt		26/04/2020	Ref. No.	R14
Sl. No.	Parameter	Unit	Value	Permissible Limit
1	pH	-	6.8	6.5-8.5
2	Suspended Solids	mg/L	67.8	100
3	COD	mg/L	40	250
4	BOD	mg/L	27	30
5	Total Dissolved Solids	mg/L	1356.1	-----
6	Chloride	mg/L	15	-----
Signature:		<p>for As Mahesh 3/7/2020</p>		
Remarks:				
Scientist-in-Charge of Analysis				

o/c

ANNEXURE III

Telephone: 0471-2303844
e.mail: kspcbdotvm@yahoo.com

KERALA STATE POLLUTION CONTROL BOARD

കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്



DISTRICT OFFICE, THIRUVANANTHAPURAM
ജില്ലാ ഓഫീസ്, തിരുവനന്തപുരം

T. C. 12/96 (4.5), PLAMOODU JN., PATTOM P.O, THIRUVANANTHAPURAM - 695 004
ടി.സി. 12/96 (4.5), പ്ലാമൂട് ജംഷൻ, പട്ടം പി.ഒ, തിരുവനന്തപുരം - 695 004

ANALYSIS REPORT

No: 202175

Date: 03/07/2020

Source	Dumpsite of Vaikala Municipality (Bore Well Sample)			
Sample received from	TA1	Date of sample collection	24/06/2020	
Date of Receipt	26/04/2020	Ref. No.	R11	
Sl. No.	Parameter	Unit	Value	Permissible Limit
1	pH	-	5.4	6.5-8.5
2	Suspended Solids	mg/L	52.2	100
3	COD	mg/L	16	250
4	BOD	mg/L	6	30
5	Total Dissolved Solids	mg/L	96.1	-----
6	Conductivity	S/m	92	-----
Signature:		<p>for AS Maha 3/7/2020</p>		
Remarks:				
Scientist-in-Charge of Analysis				

ANNEXURE III

KERALA STATE POLLUTION CONTROL BOARD CENTRAL LABORATORY



കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്
കേന്ദ്ര പരീക്ഷണശാല



Certificate No.
TC-8525

ANALYSIS REPORT

Analysis Report No.	PCB/CL/1446/20-21	Date	22 Apr 2021	Doc.No: PCB/CL/CH/F-7
Ref.No.	PCB/RO dated 03.03.2021	Date Of Collection	03 Mar 2021	
Received From	R O ERNAKULAM	Date Of Receipt	03 Mar 2021	
No. Of Sample	1	Period Of Analysis	03 Mar 2021 - 22 Apr 2021	
Source	Brahmapuram solid waste plant leachate	Scientist-in-charge	Rajeena	
Sample Condition	fit for analysis	Sample Type	Waste Water	
Sample collected by	CEE, RO ERNAKULAM	Sample volume & container type	2L plastic can	
Sample preservation	As per APHA/ IS :3025(Part-1)	Type of test	CHEMICAL	
Sampling Point	Leachate drain			

Sample ID : BLD-GEN

Sl.No	Parameters	Unit	Value	Test Method	Detection Limit
1	pH	-	7.6	APHA, 4500- H+B, 4-95 to 4- 99, 23rdEdition: 2017	1
2	Chloride	mg/L	4573.0	APHA, 4500- Cl /B, 4-75 to 4-76, 23 rd Edition: 2017	1 mg/L
3	Fluoride	mg/L	0.06	APHA, 4500- F C, 4-89 to 4-90, 23rd Edition (Ion Selective Electrode Method): 2017	0.1 mg/L
4	Sulphate	mg/L	1014.0	APHA, 4500-SO42- E, 4-199 to 4-200, 23 rd Edition: 2017	1 mg/L
5	Sulphide	mg/L	59.6	APHA, 4500 S2 F, 4-187 , 23rd Edition: 2017	1 mg/L
6	Nitrate as Nitrogen	mg/L	61.98	APHA, 4500 NO3 -,B,4-127 , 23 rd Edition (Ultraviolet Spectrophotometric Method): 2017	0.05 mg/L
7	Phosphate	mg/L	58.9	APHA, 4500- P, E, 4-164 to 4-165 ,23 rd Edition: 2017	0.1mg/L

GANDHI NAGAR, KOCHI - 682 020 ഗാന്ധിനഗർ, കൊച്ചി - 682020

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8	Magnesium	mg/L	89.1	APHA, 3500- Mg B, 386, 23rd Edition: 2017	0.2 mg/L
9	Biochemical Oxygen Demand (BOD)	mg/L	4269.0	IS 3025 (Part 44): 1993	0.1 mg/L
10	Phenolic compounds	mg/l	1.14	APHA 5530-C, 22nd Edition	0.001mg/L

-- End of Report --

Checked by

Rajeena
22/4/21

RAJEENA. R
Assistant Environmental Scientist

Authorised by

M. H. Smerafudeen

M. H. SMERAFUDEEN
Senior Environmental Scientist & Govt Analyst

Note: The test results relate only to the sample submitted for analysis and it shouldn't be reproduced except in full without the written permission of the authorised signatory of the lab.

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**KERALA STATE POLLUTION CONTROL BOARD
CENTRAL LABORATORY**

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കേന്ദ്ര പരീക്ഷണശാല



Certificate No.
TC-8525

ANALYSIS REPORT

Analysis Report No.	PCB/CL/1448/20-21	Date	24 Mar 2021	Doc.No: PCB/CL/CH/F-7
Ref.No.	PCB/RO dated 03.03.2021	Date Of Collection	03 Mar 2021	
Received From	R O ERNAKULAM	Date Of Receipt	03 Mar 2021	
No. Of Sample	1	Period Of Analysis	03 Mar 2021 - 24 Mar 2021	
Source	Brahmapuram solid waste plant leachate	Scientist-in-charge	Geetha P	
Sample Condition	fit for analysis	Sample Type	Waste Water	
Sample collected by	CEE, RO ERNAKULAM	Sample volume & container type	300 ml sterile BOD bottle	
Sample preservation	As per APHA/ IS :3025(Part-1)	Type of test	MICROBIOLOGY	
Sampling Point	Leachate drain			

Sample ID : 486

Sl.No	Parameters	Unit	Value	Test Method	Detection Limit
1	Total Coliform	cfu/100ml	2400	APHA 9222 B, 23rd Ed.2017	1cfu/100ml

-- End of Report --

Zahida P Z
24/3/21

Checked by

ZAHIDA P Z
Assistant Scientist

Geetha P
24/3/2021

Authorised by

P. GEETHA
Environmental Scientist

Note: The test results relate only to the sample submitted for analysis and it shouldn't be reproduced except in full without the written permission of the authorised signatory of the lab.

GANDHI NAGAR, KOCHI - 682 020

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KERALA STATE POLLUTION CONTROL BOARD

CENTRAL LABORATORY, KOCHI – 682 020

**FORM-II
REPORT OF THE BOARD ANALYST
(See rule 27)**

Report No .PCB/CL/LEGAL/ES11/2019

Dated 19th March, 2021

I hereby certify that, P. Geetha, Board analyst, duly appointed under subsection (3) of section 53 of the water (prevention and control of pollution) act 1974 (act 6 of 1974) received at 4:00 pm on 06.03.2021 from the Environmental Engineer, Kerala State Pollution Control Board, District Office-11, Perumbavoor two samples of effluent Bottle No PCB/DO2/LS-1 and PCB/DO2/LS-2 collected by Smt. Rameena.V.V, Assistant Environmental Engineer, Kerala State Pollution Control Board, District Office-2, Perumbavoor,Ernakulam at 12.30 pm on 06.03.2021 from the Septage Treatment Plant of Kochi Corporation at Brahmapuram . The sample was in a condition fit for analysis as reported below.

I further certify that I have analysed the aforementioned samples on 09.03.2021 to 19.03.2021 and declare the result of the analysis to be as follows:

Sl. No.	Parameter	Unit	Values	Method of Analysis
1	p ^H	-	6.8	APHA, 4500-H+B,4-95 to 4-99, 23 rd Ed.,2017
2	BOD(3Days at 27 °C)	mg/l	135	IS 3025 part 44 1993
3	Oil and Grease	mg/l	BDL	APHA, 5520-B,5-42 to 5-44, 23 rd Ed.,2017
4	COD	mg/l	448	APHA, 5520-B, 23 rd Ed
5	Nitrate as Nitrogen	mg/l	7.4	APHA,4500NO ₃ -,B,4-127,23 rd Edition (Ultraviolet Spectrophotometric Method) 2017
6	Phosphates	mg/l	36.67	APHA,4500P,E,4-164 to 4-165, 23 rd Edition:2017
7	Sulphates	mg/l	63.1	APHA, 4500-SO ₄ 2-E, 23 rd Ed., 2017
8	Free Ammonia	mg/l	0.75	GEMS OPERATONAL GUIDE WHO
9	Total Kjeldhal Nitrogen	mg/l	114.2	APHA, 4500-N Org B, 23 rd Ed., 2017
10	Total Coliform	CFU/100ml	620000	APHA 9222 B, 23 rd Ed.2017

11	Faecal Coliform	CFU/100ml	480000	APHA 9222 D, 23 rd Ed.2017
12	Faecal Streptococci	CFU/100ml	1000	APHA 9230 C, 9-119 to 9-122. 23 rd Ed.2017
13	Ammoniacal Nitrogen	mg/l	94.0	APHA,4500 NH3 F,4-119 TO 4-120Phenate method, Colourimetric),23 rd Edition:2017

The condition of the seals, fastening and containers on receipt was as follows:

The sample was contained in brown coloured 2.5 litre for general parameter and 1L Glass bottles for Oil & Grease, 300ml sterilized BOD bottle for Microbiology analysis securely sealed with sealing wax. There was no leak. The impression both on the seals and on the attached tags were representative of the Kerala State Pollution control Board. The impressions of each party on the seal and the tag were identical. The tag contained the signature of

Sri. Prasannan.C, Health Inspector, Brahmapuram MSW plant, Kochi Corporation.

The seal were opened by me just before analysis.

Signed this 19th March, 2021.



Geetha
 Board Analyst
 P. GEETHA
 Environmental Scientist
 Central Laboratory
 Kerala State Pollution Control Board
 Gandhi Nagar, Kochi-20

Address: P. Geetha,
 Environmental Scientist (HG)
 Central Laboratory
 Kerala State Pollution control Board,
 Gandhi Nagar, Kochi - 20

To: The Member Secretary,
 Kerala State Pollution control Board,
 Pattom Palace P.O.,
 Thiruvananthapuram – 695 004.

Copy to: The Chief Environmental Engineer,