

# 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
- 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

House-to-house collection: composter, Biobins, pipe compost, ring compost, compost pits, Material Collection facilities, Resource. Material collection and recovery facilities are provided. (Details

Segregation: attached as Annexure I for Urban Local Bodies).

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	Community level-7	Community level-287,	Nil
	composting plants -		Household level-	
	2(Large); 12(Small)		21,550	
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	Remarks
			Generation (MW)	
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

### ${\bf Disposal\ of\ solid\ waste\ (number/names\ of\ towns/capacity):}$

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	Groundwater	Leachate	Compost	VOCs
		air		quality	quality	
1.	Windrow composting plant, Kozhikode		attached as	Analysis Report attached as Annexure III		
2.	Windrow Composting Plant, Brahmapuram		attached as	Analysis Report attached as Annexure III		

### Status of Action Plan prepared by Municipalities

Total number of Corporations/municipalities: 97

Number of Action Plan submitted: Being submitted

### **ANNEXURE** I

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

The Government of Kerala has taken efforts to implement the Solid Waste Management Rules, 2016 in the State. There are 6 Corporations, 87 Municipalities and 941 GPs in the State. The Kerala State Pollution Control Board (KPSCB) issued repeated directions to all local bodies to ensure compliance of the Solid Waste Management Rules, 2016. 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
Centralisedplant	Windrow composting plants(large)	2	Ernakulam     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. Kunnamkulam 7. Guruvayoor (2 TPD) 8. Chittur -Thathamangalam (4 TPD) 9. Ottappalam (5 TPD) 10. Palakkad (4 TPD) 11. Thaliparambum 12. Payyannur
CommunityLevel	Vermi composting plants(Small)	7	<ol> <li>Attingal (0.25TPD)</li> <li>Thodupuzha</li> <li>North Paravur (1 TPD)</li> <li>Chavakkad (1.5 TPD)</li> <li>Manjeri (0.5TPD)</li> <li>Koothuparambu</li> <li>Mattannur (5 TPD)</li> </ol>
	Aerobins	406	
	Biogas plants	287	
	Bobbins in flats	500+	Thiruvananthapuram,     Ernakulam,     Trissur
	Material Collection Facility	685	
	Resource recovery facility	77	
House holdLevel	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 cites 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

acre at Njaliyanpar ambu  Njaliyanpar ambu  Awarded to Begacy waste or Zonta Infratech Private Limited for the construction of Waste to May 2020 and Energy Plant  Started the work of clearing of legacy waste or Zonta 3rd March, 202 The clearing we dumpsite on 4th of Waste to May 2020 and Energy Plant  Started the work of clearing of legacy waste or Zonta The clearing we dumpsite on 4th of Waste to May 2020 and Energy Plant  Started the work of clearing of legacy waste or Zonta The clearing we dumpsite on 4th of Waste to May 2020 and Energy Plant	Kozhikode Njaliyanparambu
Njaliyanparambu corporation land)12.67 acre at Njaliyanpar ambu Work of clearing of legacy waste or Zonta Infratech Private Limited for the construction of Waste to Energy Plant at Njaliyan parambu. A las been Infratech Pvt Lt.	Njaliyanparambu  corporation  land)12.67 acre at Njaliyanpar ambu  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 Limited was formed. The Concessionai re has informed  Infratech Pvt Lt started the work of clearing of legacy waste of 3rd March, 2020 dimpsite on 4th May 2020 and 40% of legacy waste in Zone I has been removed.  The work is in progress at the site.
M/s.Malabar Waste Management Limited was formed.The Concessionai re 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 establishwas	Financial Closure for the project has been achieved — SBI has agreed for a debt funding of Rs 146 crores. Consent to

Clearing of groundfor the plant is undergoing. Land development works are undergoing. Alternate road has been constructed onthe 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 tothe site is nearing completion. 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

	·	1	T		
2	Kannur	Kannur	(Govt. Land)	Blue Planet	Agreement has
	Chelora	Corporation	9.7 acres at	Kannur	been executed
			Chelora	Waste	with M/s Zonta
				Solutions	Infratech Pvt Ltd,
				Private	the selected bidder
				Limited was	on 21st October
				formed to	for carrying out
				take up the	the rehabilitation
				developmen	of MSW dumpsite
				t of the	atthe site.
				project. Waste	Actad Cornetary
				Characterisat	Asked Secretary Kannur Municipal
				ion study	Corporation to take
				was	immediate steps
				Contuctedby	with the
				SPCB	Contractor to
					expedite the
				SLAC	works for
				directed MD,	
				KSIDC &	rehabilitation
				Secretary,	of MSW
				Kannur	dumpsite at
				Municipal	Chelora.
				Corporation	
				to take	
				immediate	
				steps to	
				execute the	
				Lease	
				Agree	
				ment	
				and	
				Conces	
				sion	
				Agreemen	
				t for the	
				project.	
				KSIDC has	
				completed	
				the tender	
				process and	
				the finaloffer	
				along with	
				details of the	
				contractor,	
				draft	
				agreement to	
				be executed	
				with the	
				Contractor	
				and the	
				technical	
				proposal	
				submitted by	
				the	
			0	Contractor	
			8	has been	

forwarded to Kannur Corporation on 07th August 2020 for further proceedings. **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 theSecretary Corporation for execution. Further a stake holder meetingwas 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 authorizin g the Secretary Kannur Corporati

on to execute the concessio n agreement has not been passed. Concessi on agreemen t can be executed only on receiving land to KSIDC. The concension arire has reported that the field studies including waste characterizat ion andwaste quantification studies, as part of DPR preparation will be commencing next week. Govt vide GO(R) 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				
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development				
of Waste to				
Energy				
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to avacuta				
10 to execute		10	to execute	

3.	Palakkad Kanjikode	Palakkad	(Land taken	MoU with KSIDC for clearing the existing legacy waste at dump site inChelora.  Detailed waste characterizati on of study of dumpsite at Chelora was done by the Pollution Control Board. SLAC directed the Board to submit final study  Blue Planet	The Concession
3.	raiakkad Kanjikode	Palakkad Municipality	(Land taken overfrom Kerala State Electricity Board Ltd. in advance possession)  15 acres at Kanjikode	Blue Planet Palakkad Waste Solutions Private Limited was formedto 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 & Bradstreetfor 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 tobe executed with M/s.Zonta Infratech Pvt Limited is vetted

		1	1	0 11 1 7 7 7	T
				Solid Waste	by the
				Management	Corporation's
				project with	Standing Counsel
				a Wasteto	and the same will
				Biogas	be placed in the
				facility of	next Council
				200 TPD	meeting for
				processing	approval.
				capacity.	CI AC 1' 1
				DDD	SLAC directed
				DPR was	the Secretary
				evaluatedby the Committee and	Kollam Corporation to
				it has been	Corporation to
				modified and	take necessary steps to ensure
				final DPR	either the
				submitted to	Contractor follow
				LSGD	the tender
				Concenssionair	conditions or
				e hastaken	cancel the present
				steps to submit	tender and go for
				applications to	re-tender
				the concerned	immediately.
				departments	ininicalatory.
				and agencies	Again the project
				for statutory	has been
				approvals and	retendered by the
				clearances.	Corporation.
					F
1		Î			
5	Thiruvananthapur	Thiruvananthapur	Land not	KSIDC re	Tendering in
5	am	am	Land not identified	tendered the	Tendering in advanced stage
5	•			tendered the project on	
5	am	am		tendered the project on Swiss	
5	am	am		tendered the project on Swiss Challenge	
5	am	am		tendered the project on Swiss Challenge mode on	
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resolved that the following details shall be Obtained from Consortium before the opening of the financial bid -Testimonial s of technology use, operating videos of the wte 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. Directed State Pollution Control Board to evaluate the Technical proposal submitted by the Consortiu mfor confirming

	T		1	Τ.,	1
				the	
				uniqueness	
				and	
				authenticit	
				y of the	
				proposed	
				technology.	
6	Ernakulam	Kochi corporation	(Govt.	KSIDC was	KSIDC floated e-
	Brahmapuram	1100m Corporation	land) 20	authorized to	tender to identify a
	Di willing wi will		acres at	take	suitable agency for
			Brahmap	immediate	the rehabilitation
			uram	steps to float	of MSW dump site
			uram	an RFP for	at Brahmapuram.
				the selection	KSIDC submitteda
				of suitable	proposal to
				concessionai	constitute a
				re to setup	Technical
				Waste to	Evaluation
				Energy plant	Committee for
				at	technical
				Brahmapura	evaluation of the
				m. The last	bids. Evaluation of
				date for	technical bid is in
				submission	process.
				of bids has	process.
				been	LSGD issued
				extended to	
				14th	directions to Kochi
				September	Corporation to
				2020.	examine the quantity
				2020.	of legacywaste
				TD 1 1 1	assessed and rate
				Technical	quoted by the bidder
				bids	in consultation with
				submitted by	PCB within 30 days
				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	
			4.5	Committee	
L	<u> </u>	L	15		1

the tender conditions to prevent one particular company being awarded more than 3 WtE projects on PPPmode at a particular project development time, so as to ensure more competition and also easier financial closure.  Idukki Munnar Muncipality 2 acres of land at munnar Muncipality 2 acres of land at munnar of M/s Al Bucheeri General Transport Est, Pathanamthit ta, M/sAl Bucheeri Grange Transporting Est UAE and M/s Organic Recycling Systems Pvt Ltd, Munbai on 19th August 2020.  The Committe ee observed	conditions to
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				Consorti	
				um 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	
				evaluationof	
				the Bid	
				the Diu	
8	Wayanad	Wayanad	0.5 acres at	Work	
	Sulthan Bathery	Muncipality	Sulthan	dropped	
	•		Bathery		
9	Thrissur	Thrissur	Identified	Thrissur	Proposal submitted
		corporation	land at	Corporation	to Suchitwamission
			Ollookkara	identified	for sanction
			village		
			village	land at	
			village	Ollookkara	
1			village	Ollookkara village in	
			vinage	Ollookkara village in Thrissur	
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			vinage	Ollookkara village in Thrissur district.	
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			Village	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	
			Village	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	

				Ollookkara Village in Thrissur district and to hand over thesame on lease basis to KSIDC for the development of the project  Secretary, Thrissur Municipal Corporatio n to report the status ofprice negotiation	
10	Malappuram	Malappuram munciplaity	8.09 acres of land at Kurumbat hoor village in Tirur Taluk	negotiation done with the owners of the land identified.  KSIDC reported that Land Board has issued orders to District Administrati on Malappuram to handover 8.09 acres of land at Kurumbatho or 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 Du	impsites locations				
Sl.	Location	District	Status			
No:			Status			
1	Vilappilshala	Thiruvanthapuram				
2	T7 1	77. 11	M/s. Zigma Global			
2	Kureepuzha	Kollam	Environ Solution			
			Pvt. Ltd. started			
			biomining			
			Tendering in			
		**	progress forthe			
3	KottayamVadavathoor	Kottayam	disposal of non			
			biodegradable waste			
4	Sarvodayapuram	Alappuzha	Action being taken.			
			Bidder has been			
			identified and action			
5	Duchmanum	Ernakulam	is being taken to			
3	Brahmapuram	Effiakulani	award the work to			
			successful bidder.			
			Drone survey has			
			been done to			
			quantify the dumpsite.			
			Some area is			
			reclaimedand			
			construction of			
			stadium is			
6	Laloor	Thrissur	progressing and			
			remaining area is			
			taken up for			
			biomining with Clean			
			Kerala mission and			
			KIEL. Proposal			
			under consideration			
			of			
			Suchitwa Mission.			

Location	District	Status
BPL Koottupatha, Palakkad	Palakkad	Under Consideration
		M/s Zonta Infratech Pvt Ltd started the work of clearing of legacy waste on 3 <sup>rd</sup> March, 2020.
Njeliyamparambu,Calicut	Kozhikode	The clearing work of legacy waste resumed at the dumpsite on 4 <sup>th</sup> May 2020 and approximately 15000 cum of legacy waste was cleared from the project site as on 12 <sup>th</sup> May 2020. Some disruption due to Covid and Monsoon.  Machineries have been installed and resumed clearing of dumpsites.
Chelora	Kannur	Work awarded to Zonta Infratech Private Limited. Corporation directed contractor to expedite the work.
Thalassery	Kannur	-
	BPL Koottupatha, Palakkad  Njeliyamparambu, Calicut  Chelora	BPL Koottupatha, Palakkad  Njeliyamparambu, Calicut  Chelora  Kannur

	Other Du	impsite 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. Proj.ect 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 /Municipalit y	District	Name of the City/Town	Population as per 2011 Census	Projected populatio n (2021)	Quantity of Waste generated based on	D2 Colle	ntage of 2D ection waste)	No of collect ors	As rep	orted	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 Manage ment	Site identified for Sanitary land fill	Dump sites identified	Authorizat ion Applied	Authoriza tion granted
	Thiruvant hapuram	Thiruvanthapu ram Corporation	958000	996204	nonulation 448	19.4	90	25 Service provider s	Not properl y docume nted and submitt ed	242.23	222	De centralized units	Biobin 109 of 15 TPD	Biogas Plant - 18 Nos of 18.4TPD Aerobin (Thumboorm uzhi 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 ew-tendered 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 qualitified 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
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 aencies for statutory approvals and clearances.	MCF-185	Regional landfill site identified at Kochi	Zigma solutions have been selected for carrying out biomining and they have started the work		Yes
3	Ernakula m	Kochi Corporation	677000	703999	317	89.8	59.8	1200	308	215	304	Centralized treatment - Windrow composting at Brahmapur am	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(Retenderin g 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 biodegrada ble managed- 6.71TPD Non biodegrada ble 0.7TPD Non biodegrada ble 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 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 Ollookkara Village in Thrissur district and to hand over the same on lease basis to KSIDC for the development of the project. The matter is being placed before the Council for approval and further proceedings.	Material collection facility-8 Resource recovery facility-3	Regional landfill site identified at Kochi	1 (Laloor)	No	No
5		Kozhikode Corporation	550000	571934	257	49.72	95	645	98	95	140	Non- biodegrada ble- 0.75TPI	D Biogas plant at public utility place- 4Nos Aerobins-28	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.		Regional landfill site identified at Kochi	1(Njaliyanpa rambu) Biomining started		Yes	Yes

Sl.No Corporation /Municipalit District	Name of the City/Town		Projected populatio n (2021)	Quantity of Waste generated based on population	Percen D2 Colle (Dry v	2D ection	No of collect ors	As rep		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 Manage ment	Site identified for Sanitary land fill	Dump sites identified	Authorizat ion Applied	Authoriza tion granted
6 Kannur	Kannur Corporation	2,32,486	370197	167	63.5	89.3	44	85	75	70	Land Filling	Not reported	Trenching Biomethanati 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)M oU with KSIDC for clearing the existing legacy waste at dump site in Chelora	Yes	Under processi ng
7 MUNCIPALIT Thiruvana thapuram	Attingal	37648	39150	16	48.5	100	44	16	16	16	Centralised and decentralised systems	Biogas Plant(Dhee nabandhu) 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 wih capacity of 0.25 TPD	Biogas Plant 407 Nos - 0.85TPD	Windrow composting plant, vermic composting plant, and biogas plant	MCF-1; RRF-1	Yes	!	l 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	Nil	No	No
10	Varkala	40048						4.8	4.8		Decentralised treatment		Biogas Plant - 1 No - 100Kg	S-1 1 1	Nil	MCF-3; RRF-1	level At regional	Yes -one		Yes
	Varkana	10010	11010		31	70	10	1.0	1.0		Decemanised dealinem	pipe compost; 82 compost pits	Brogus Films 1100 Tooks			, Ku 1	level	Tes one		
11 MUNCIPALIT Kollam IES	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		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	NII	NII	pipe compost-600 ring compost-5000 pot compost 70 biogas plant -26		1 MCF 1RRF 1Mini MCF plastinc Shredding unit and bailing unit	No	No		
13	Punalur	46702	46702	19	90	80	127	3.5	3.5		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)		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

Sl.No /	Corporation Municipalit y	District	Name of the City/Town	Population as per 2011 Census	Trojecteu	Quantity of Waste generated based on population	Percenta D2I Collect (Dry wa	D tion		As reported y localbodie		Waste treatment	Institutional level SWM Plants	Community Level SWM Plants	Household Level SWM Plants	Centralised	Non-Bio Degradable Waste Manage ment	Site identified for Sanitary land fill	Dump sites identified	Authoriza ion Applied	t Authoriza tion granted
14			Kottarakara	30055	42050	17	66	20 5	S8HKS 1	ton 7.2	7.2	For biodegradable waste aerobic bin compost units at community level and biocomposter bins at household level . 1 MCF, IRRF plastic shredding and bailing units for processing non bio degradable waste.Doo to door collection through harithakarmasena and given to clean kerala company		Aerobic bin compost units	Bucket compost,Biobin,Biogas plant		1 MCF, 1 RRF, Plastic shredding unit and bailing unit	No	No	yes	
15 N	MUNCIPALIT ES	Pathanamt hitta	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		16+1 (1 agency)	1.5 1.	5	Decentralis ed treatme	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 biodegrada ble waste and 0.35TPD of non biodegrada blewaste managed	Biogas Plant - 2 Nos Aerobin-5	Biogas plant - 400 Compost pits- 520	Nil	MCF-3; RRF-1	At regional level	Nil	Yes	Under processi ng
18			Thiruvalla	52883	54992	22	60	0	55	1.	4 1	2 Decentralis ed treatment	4.79TPD of biodegrada ble waste and 1.5TPD of non biodegrada ble waste		Biogas Plant - 170Nos Pipe Compost 2360 Nos	Nil	MCF-1	At regional level	Nil	No	No
	MUNCIPALIT ES	Alappuzha	Alappuzha	174176	241219	96	95	80	76	46 3	6	Aerobic composting Plastic Shredding	Not given	Aerobic Compost (Thumboorm uzhi Model) - 29 units	Biogas Plant - 1964 Nos.Pipe compost- 1263 Nos. Biobin- 6000 Nos		0 MCF 23; RRF-3 ;Plastic Shredding unit 3 units		Nil	Yes	
20			Chengannur	23456	24393	10	11.12	60	25	0.5 0.8	55	3 Decentralis ed treatment	Not given	Aerobic Compost (Thumboormuzhi Model) - 12 bins at 1 location		Nil	MCF-1	At regional level	Nil	Yes	Under processi ng
21			Cherthala	45827	47658	19	73.76	80	35	0.6 0.	6	6 Decentralis ed treatment	Not given	Aerobic Compost (Thumboorm uzhi 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 processi ng
22			Haripad	15588	16211	6	88	6	30	1	1	5 Decentralis ed 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 processi ng
23			Kayamkulam	68634	75861	30	65	45	9	5	3	Aerobic Compost	0.06 TPD is managed	Biogas Plant Aerobic compost (Thumboorm uzhi 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 processi ng
24			Mavelikara	264121	27516	11	80	25	30	3.2 2.	5	Composting	Not given	Aerobic Compost (Thumboorm uzhi 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 processi ng
	MUNCIPALIT ES	Kottayam	Changanassery	127987	133102	53	0	F	Haritha Karma Sena		3 2	0 Decentralis ed 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 (Thumboorm uzhi mode) - 24 bins Biogas plant: 28 nos		Nil	MCF-1 RRF - 1	At regional level	1	No	No

Sl.No Corporation /Municipality		Name of the	2011 Census	populatio n (2021)	Quantity of Waste generated based on population	Percent D2 Collec (Dry w	CD ction vaste)	No of collect ors	As repo	rted v	antity of waste occessed (TPD)	Waste treatment technology used	SWM Plants	Community Level SWM Plants	Household Level SWM Plants	Centralised	Non-Bio Degradable Waste Manage ment	land fill	Dump sites identified	Authoriza ion Applied	tion
27		Ettumanoor	26423	27479	11	10	56.9	62			41	Decentralis ed treatment	Not given	Biogas Plant at location with capacity of 500kg	Ring Compost - 450 Nos Bucket Compos 150 Nos	t-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		Biogas plant - 1400 Nos Pipe Compost- 2300 Nos	Nil	MCF-1 RRF - 1	At regional level	1 (Vadavathoo r)	No	No
29		Pala	123000	127915	51	34	94	14	2	7	26	Decentralis ed treatment		uzhi Model) - 6 bins at 1	Compost - 26 Nos Biodigester Pot - 4 Nos Ring Compost - 59 Nos Bucket Compost 170 Nos Pipe Compost 5162 Nos	s Nil	MCF-1	At regional level	Nil	No	No
30		Vaikom	23234	24162	10	0	0	64			3	Decentralis ed treatment	Aerobic compostin g (Thumboo rmuzhi mode) 4 bins at 2 locationsBiogas 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 MUNCIPALIT	I Idukki	Kattapana	42646	44350	18	79.4	100	81	3.24	3.24	11	Decentralis ed 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	Vermi compost - 7bin at 1 location	Biogas Plant - 928	Nil	MCF- 2 RRF 1	At regional level	Nil	No	No
33 MUNCIPALIT	I Ernakula m	Aluva	22428	23312	9	43	24		7.05	6.14 NA	1	NA		Centralised plant at Brahmapura m	Pipe compost - 43 Kitchen bin - 10	Centralised plant at Brahmapuram	RRF - 1		Nil	No	No
34		Angamaly	33465	34802	14	0	]	Nil	0.5	0	4	Decentralis ed treatment	Aerobins-2	Biogas plant - 1No	Pipe compost - 979 Biogas - 504 Nos		RRF-2Nos; MCF- 1;Biodigest er bins- 300Nos SWAP shop-1 No.	level	Nil	No	No
35		Eloor	31468	32726	13	0		81	0.87	0.87	5	Decentralis ed treatment		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		Not No	ot ven	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		Koothattukula m	17253	18659	7	0.1	10	19	1	1	1	Decentralis ed treatment	Not given		Biogas 16	Nil	Nil	At regional level	Nil	No	No
38		Kothamangala m	114574	119153	48	3.8	10	2	6	6	14	Decentralis ed treatment	Not given		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		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	Decentralis ed 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	Decentralis ed treatment	(Thumboo rmuzhi model) -1 bin at 1	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	Decentralis ed treatment	0.75 TPD of non of biodegrada ble waste is managed		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	Decentralis ed 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

Sl.No /	Corporation Municipalit y	District	Name of the City/Town	2011 Census	n (2021)	Quantity of Waste generated based on population	D2 Colle (Dry v	2D ection waste)	ors	As repo	odies proce (TP	Waste treatment technology used	SWM Plants	Community Level SWM Plants	Household Level SWM Plants	Centralised	Non-Bio Degradable Waste Manage ment	land fill		Authorization Applied	tion granted
45			Thripunithura	92522	96219	38	8 87.1	85.9	64 1		ot een	14 Decentralis ed treatment	Aerobic composting (Thumboornuzhi model) - 2 bins at 2 locations with capacity 14 units & 18 units. Biogas plant - 1no with100 kg capacity	1.62TPD of biodegradable e waste is managed 0.124 non biodegradabl e waste is managed. Thumbur muzhi model at Anapparamb u -41 ward	Biogas Plant - 300 Nos Biodigester Pot - 125 Nos Bucket Compost - 2400 Nos Pip Compost 10000 Nos	Centralised plant at Brahmapuram e	Material Collection Facility - 1 No (Non Operation)Plastic Shredding Machine - 1 No Baling Machine - 1 No	At regional level	Nil	No	No
46 N	MUNCIPALITI	Thrissur	Chalakkudy	49525	51504	21	100	100	54 7	.31tpd 7.	31tpd	10 Decentralis ed treatment	Plants(50k g capacity) 5 SWM	Thumbur muzhi model at Anapparamb u (41 ward ) Vermicompo sting 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	5 36.2	51	31	4 N	ot .	14 Decentralis ed treatment	Not given	Vermi composting 1.5TPD	Pot Compost - 548 Nos Biogas Plant - 61-	4 Nil	MCF-1; RRF-1	At regional		1 No	No
48			Guruvayur	70012	72810	29	24.5	100	58		ren 4	15 Decentralis ed treatment		Bio organic management	Nos Biogas Plant- 400 Composting units-2545		MCF-1; RRF-1	level At regional	Nil	No	No
															Compost pits- 1899 Kitchen Gardening			level			
49			Irinjalakuda	62532	67542	27	7 48	86	130 4	TPD 31	PD	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 Segragated 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 31	PD	Composting Shredding	20 Aeribic bins	20 Aeribic bins	Aerobic Compost (Thumboo rmuzhi Model )-6 bins at 3 locations with capacity of 10 kg/day	y	Seggregated Non biodegradable waste collected through Haritha karma senaand it is forwarded to MCFand RRF.SCrap hand over to scrap dealers and rejects handover to Clean Kerala LTD	NIL	NIL	Yes	NO
51			Kunnamkulam	54071	56232	22	2 100	100	56	3	3	10 Decentralis ed treatment	Aerobic compost (Thumboo r Mozhi model)	composting plant 1.889 TPDBiodegradabl e waste managed, 0.81 TPD Non biodegradabl e 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 llocal bodies for waste processing.	MCF-1; RRF-1	At regional level	Nil	No	No
52			Vadakkancher y	15674	16300	7	7 34.3	100	40	1.6 N	I	9 Decentralis ed treatment	1.93TPD waste managed( Bio&Nonb iodegradab le)	Not Given	Compost units- 1918, Biogas- 100,Compost pits-4471	Nil	MCF-2; RRF-1	At regional level		1 No	No
53 N	MUNCIPALITI	Palakkad	Cheruplassery	30730	31958	13	3 60	77	22 HKS	0.2	1.2	4 Decentralis ed treatment	0.427 TPD Non biodegrada ble waste managed.	1.43 TPD Nonbiodegra dable waste managed.	Pipe Compost 1000 Nos Biogas Plant - 200 Nos Composting units-1050	Nil	MCF-1; RRF-1	At regional level	Nil	Yes	Under processi ng
54			Chitttur-	33000	34319	14	1 51.7	11.6	56 Nos	2		7 Decentralis ed treatment	bins at 5 locations	Not given	Ring Compost - 239 Nos Composting	Aerobic Windrow Composting Plant -1 bin	MCF-7; RRF-1		Nil	Yes	Under .
55			Thattamangala m Mannarkadu	39463	41040	16		83.7	58		0	6 Decentralis ed treatment	Not given	Not given	units-1407  Pipe compost- 40; biogas plant -20;	with capacity 3 Tons/day Nil	MCF-1	level At regional	Nil	No	processi ng No
			- Farmarkadu	37 <del>1</del> 03	71040	10		03.7				o deament	110t given		Biocomposter- 315		Inci i	level			110
56			Ottapalam	53792	55942		57.7		56	1.4		8 Decentralis ed 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 Decentralis ed 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. Asper annual report 2.1 Hectre of land is available.	MCF-7; RRF-1	At regional level	1(BPL) Koottupatha)	Yes	Under processi ng

	Corporation Municipalit y	District	Name of the City/Town	Population as per 2011 Census	Projected populatio n (2021)	Quantity of Waste generated based on population	Colle	ection	NO Of		ported albodies	Quantity of waste processed (TPD)	f Waste treatment technology used	Institutional level SWM Plants	Community Level SWM Plants	Household Level SWM Plants	Centralised	Non-Bio Degradable Waste Manage ment	Site identified for Sanitary land fill	Dump sites identified	Authoriz ion Applied	tion
58			Pattambi	28632	29776	12	2 0	60	20	1		3	Decentralis ed treatment	Not given	Open composting in trench	Biogas plant- 69	Nil	MCF-1; RRF-1	level	Nil	Yes	Under processing
59			Shornur	43533	45273								Decentralis ed treatment	Not given	Biobin	Biogas 276	Nil	MCF-1; RRF-1	level	Nil	No	No
60 N	MUNCIPALITI	Malappur am	Kondotty	28794	29945	12	2 79.7	60	160	0.12	0.12	2	4 Decentralis ed 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									1 Segregation		Nil	Bio Bin and Bio Gas	Nil			Nil	Nil	Nil
62			Malappuram	68088	79645				5 24			10	YES	NIL	NIL	.Biogas plant,Bio binBucket compst	nil	,HKS		Nil	Nil	nIL
63			Manjeri	97102	112000	45	30	43.7	7 16	30	100		Bio degradable = Bio Bin , Pipe Compost Pig Farms no Bio degradable Segregation and Trasfer 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	9 0		29	0.3	0.3	8	8 Decentralis ed treatment	Not given	Not given	Biogas Plant - 71 Nos. Pipe compost-135; Biocomposter- 75	Nil	Temporar y	At regional level	Nil	No	No
65			Parappananga	71239	79888	32	2 98	80	90	0.5	0.5	20	Ring compost,kitchen bin,pipe	bio gas plant,ring	composting	Ring compost,kitchen bin,pipe	nil	collecting through	na	na	no	na
			di										compost,biogas,bio pot, MCF,MINI MCF, Non bio degradable send for recycling	compost		compost,biogas,bio pot, MCF,MINI MCF, Non bio degradable send for recycling		Harithakarma sena,send for recycling to clean kerala co.				
66			Perinthalmann a	49723	55290	22	2 35	40	52	10	10	10	0 MCF,MRF,Vermi composting,Wintro composting,Bio gas plant,Bio	nill	MCF,BIO GAS	BIO BIN,BIO GAS	NILL	Collecting through Harithakarma sena	na	na	yes	no
67			Ponnani	90491	93370	37	7 48	52	2 49	0.5	0.5	22.5	bin 5 composting	28 Aerobic units	MCF and RRF	Composting & Bins	Nil	1RRF,2MCFs	0	-	0 No	NA
													Bio gas plants Aerobic units Bottle booths MCFs, Mini MCFs RRF			Bio gas plants		6Mini MCF Bottle booths Plastic bailing				
68			Thanoor	69534	77053	31	1 52	20	)_	0.5	0.5	21.5	Ring Compost, MCF	Nil	MCF	Ring Compost	Nil	Collecting trrough Haritha karmasena send for recycling to clean kerala company	0		0	0 NA
69			Thiroorangadi	56632	63220	25	5 30	10	28	0.25	0.25	14	4 Ring compost,kitchen bin,pipe compost,biogas,, MCF,MINI MCF, Non bio degradable send for recycling	Biogas plant	Composing	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	5 80	100	38	4	1	/	4 Bio degradeble waste-bio	bio gas plant	composting	composting & bio methenation units	1 with 90 ton capacity	send for recycling	na	na	na	na
				50050	02110				, 50				methenation & composting,Non bio degradeble -send for recycling through forword linking agency.		Composing		, was so on expens	through for word linking agency				
71			Valanchery	40318	45306	18	8 0	C	13	1	1	1	l biogas plant ring compost bio bin house hold level	bio gas	nil	biobin, ring compost,biogas plant	nil	HKS	nil	nil	yes	nil
72 N	//UNCIPALITI	Kozhikod e	Faroke	57074	60000	24	4 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 0		72 (Haritha	0.6	0.6	7	7 Decentralis ed treatment	Not given	Not given	Not given	Nil	MCF-1	At regional level	Nil	Yes	Under processi ng
74			Koyilandy	71873	74745	30	59.7	7.9	Karma Sena 100	10	2.5	11	I Decentralis ed treatment		Thumboor muzhi model composting - 11 unit 2. biogas plant - 500 kg per day	Portable biogas 250 nos; 2. pipe, ring; and vermicompost -1933 nos	Nil	MCF-2 MRF-1; Plastic shreding machine -2 bailing	At regional level	Nil	No	No
																		machine-1				
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	NI,L	NIL	YES	
						l	1		1				1	1	30	1	I	1			1	İ

Sl.No Corpo		District	Name of the City/Town	Population as per 2011 Census	Projected populatio n (2021)	Quantity of Waste generated based on population	D2 Colle	ntage of 2D ection waste)	No of collect	As rep	oorted lbodies	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 Manage ment	Site identified for Sanitary land fill	Dump sites identified	Authorizat ion Applied	t Authoriza tion granted
76		-	Payyoli	23576	24518		0		Nil	0.25	0.25	3 Dec	centralis ed 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 Dec	centralis ed treatment	Not given	Not given	Ring Compost- 320 Nos	Nil	Not given	At regional	Nil	No	No
78		-	Vadakara	75295	77325	31	72	60	63	7	7	con	ogas plant, biobin, pipe mpost, ring compost, bucket mpost, aerobic compost	Thumburmuzhiu	Thumboormuzhi	Biogas plant, biobin, pipe compost, ring compost, bucket compost	NA	YES	NIL	NIL	YES	NIL
79 MUNCI	PALITI W	Vayanad	Kalpetta	31580	32842	. 13	26.6	81.5	32	6	6	4 Dec	centralis ed treatment	0.508 TPD Biodegrad able waste managed,0.561 TPD Non biodegrada ble waste managed.	1.3 TPD Biodegradable waste managed, 0.869 TPD Nonbiodegra dable waste managed.	0.4 TPD Biodegradable waste managed, 0.11 TPD Nonbiodegrad able waste managed	8 Acres of land is available in Vellaram kunnu Kalpetta.	MCF-1; RRF-1	At regional level		1 Yes	Under processi ng
80		-	Mananthavady	59497	62450	25	40	47	26		.5TPD	CO	JCKET DMPOST,BIOGAS,PIT DMPOST,	NIL	NIL	NIL	NIL	Not given	NIL	YES	NIL	NIL
81		=	Sulthanbathery	23333	3 24265	10	0	0	23	0.5	9.1		centralis ed 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 MUNCI	PALITI K	Kannur	Anthoor	28212	32693	13	11	0	28	9 TPD	9 TPD	and 1M	stic shruding I bailing MCF,1 RRF Imboormuzhi	collectors school bin	0	ring compost BIOGAS KITCHEN BIN		) (	) nil	nil	NIL	NIL
83		=	Iritty	40369	48501	19	65	30.71	40	2.5	2.35	0 win	ndrow compost	collectors school bin	mcf	ring compost	windrow compost	(	nil	nil	yes	not granted
84		ŀ	Koothuparamb	32404	38000	15	100	90	64	2 TPD	2 TPD	2 TPD CO	OMPOSTING & BAILING	1	0	(	)	) (	NIL	NIL	NIL	NIL
85		=	Mattanur	47078	60000	24	90	90	39	5	5		ndrow compost unit,plastic uding and bailing	collectors @school bin	Mini M C F in all wards	pipe compost,ring compost,vermi,biogas	windrow compost unit,plastic shruding and bailing	plastic shruding and bailing	NIL	NIL	NO	NOT GRANTED
86		=	Panoor	58916	68751	28	51.5	25.7	52	0.1	0	0 NA	A	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		iling ,Shredding and umboormuzhi composting	NA	NIL	Ring compost, Biogas plant, Kitchen bin	1 MCF, RRF, Thumboormuzhi	Bailing & Shredding	nil	nil	Applied	applied
88			Sreekantapura m	33489	37000	15	95	90	30	2	2	coll	ng compost,calender waist lection door to door looding platic shruding and ling	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	plas	stic shruding	NA	NIL	biobin,biopot,pipecompost	NIL	plastic shruding	NIL	NIL	applied	NA
90		,	Thaliparambu	44827	7 47965	19	85	39.6	34	3.5TPD	3.5TPD	shre	ndrow compost, plastic edding unit, mboormuzhi, 1MCF,1 RRF	NA ;	Thumboormuzhi		water treatment plant, windrow compost, plastic shredding unit, thumboormuzhi, 1MCF,1 RRF	MRF, RRF	NIL	NIL	NA	NA
91 MUNCI	PALITI K	Kasaragod	Kanhangad	73536	5 76475	31	80	65	36	2.5	2	con	astic shredding, bailing, ring mpost, kitchen bin, mboormuzhi, 2 M C F, 1 F	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	2 47502	19	90	85	30	10	10	8 Pla	astic shredding, bailing, ring mpost, 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 BURAL LOCAL BODIES

C Jases	TAXCT SOCAL BOBY	WARIIS	Siest Homodule	NIO-DO	Sandard Sandard	He pt methodosaum	Dibbo	Normalisticacos (IIII)- likal	To all beautie for which around break freezess	N of relability	Ni disposing to service/basi system	To dispessing to to extract the extract extract th	Gasting of Water ground (FFE)	Quality of Warts Channel (CPI))	Quantity of Water respect (TPID)	Specify of Warts processed in Compacting Silve (SPS)	Quantity of Waste, proceeding Homotherathe (ET)
	T Setwar	- 0	Jata .	100	-	636	- 16		- 44								dan tentan
	94 Amelic	16.	11044	.50	47	1923		-	100	- 310			- 84			- 6	
J 1	Scholasteres	. 34	499	49	. 6	50	- 80	- 10	41	100	-		- 11		- 9		
20	6 Withinstone		1208	40	- 1	(199	M.		- 13		-	- 2	52	84	- 2		
4 1	Distribles .		13438	306		207	- 11	F90	- 4				1037	- 51	_		
3 1	w (day) and	18	143/38	- 18 - 1	-	.2534	19		100	-		0	935		9	- 4	
1 0	a Chanacoste	195	7620	100		384	100	9	-	_	-	-	0.1	1165	5.003	- 4	2
3	w EASISTEEN	10	5363	100	- 0	257		· a	- 4	-	-	- 0	838	0	- 4	- 8	9
	A Publisher	78	9429	· V		190	. 0			-	-	n .	3.00	9.4	9.376	- 2	
1	Delconspins		10081	- 45	- 2	That .			-	- 2	-	-	24	- 8	- 9	.48	
2 6	(Delaterativ)		8238	71	Ti.	-401	M		- 11	-	-	- 0	.84		8 1	- 9	
4 1	Osekal	- 31	11701	29	608	.1000	349	-	100	100	- 1	-	0.04	61	-1-	0.	
4 0	Christian		6933	100		4522			100	100	-		0.45	-			
4 3	Chrestenin	#	MOR	- 64	- F	794	46		100	- 10	-		0.6	4.1.	0		-
₽ 0	Makes.	145	9973	100		420	(10)	-					6.278	3,03	- 7		
8 7	Matarine .	- 46	7996	86	- 1	311	76		M			0	9.8				
1 1	(StrinSlature)	16	HINT	6		1804	- 4	-				_	33	9.5	4	- 4	
	1 Company of the Comp	23	20734	B.	- 1	1136	11	0	91	11		- 1	92	3.11	-1-	-	
1	Calling	- 0	19451	100-	- 1	491	100		18	-195	- 5		0,3		-		
1	Collinson.	. 10.	9967	48	14	107	67		18	300	-	- 9	13	- 6	- 4		
1	School	- 25	14729	6.	64	404	- 0	-	- 12		- 5	-	82		- 1	- 4	- 1
E	Centremoure	38	5403	100	M.	46	/000			- 0	_	-	6.5	- 6	- 4		1
E	Conduten		18200	18	28	168	100		41	180	- 0	-	82				1
F .	Contact	- 10	0540		- 8	1219	12		- 3		- 1		9.1	821	631	- 4	- 1
	Secular	19	F1554	100	- 1	100	100		10	75	-		.0.3	X10	- 0		
E	Stocksten	31	7189	48	6 1	458	10	_	100	100	- 5	- 0	0;	2	- 4		
E .	Constituta	21	145/0	. 5	-	2187	- (1		76.	87	- 2	9	9.1	4		2	. 0
1:	Hondrellan.	200	8436	99	9	461	160		100	No.	8	-0-	5/841	9		- 1	
	305 manure	7.5	4711	100		100	- 86	- 1	9 1	- 10	-	-1-1	0.8	- 0 -	-4		
	Aylaterii:	16.	ROSC	4.1		MARK.	4		100	- 00		- 9	6.2	8.000			
	Constal	19	090	81	19	1671		85	- 1	- 500	- 5	-	0.54	0	-1	- 1	
	Safathan	38.	APLAL	162	0.	(12)	16	10	10	30	-	-	0.48	8.37	- 1	-	- 0
E .	Nematical	30	31357	165	- 0	.299			- 15	100		$\rightarrow$	4.4 9.15	820	-		. 6
	Shelidel	34	6665	100	8.	1001	1 1	100	- 0			-			-	-	
	Makirtad	15	2000	19.		195	99	- 1	79	-	- 1		8494		-	-	
	Milanial	- 20	1008	100	- 6	1917	56	191	- 4	-0	-	-	9,12	811	-1	- 8	
	Magazinar	- 16	5925			3350		100	40	-	_	_	0.5	0.01			
	Margathyseem	36	14039	35	8	3806	- 1		-		_		0.35		-		- 1
	Medital	20	13/600	. 10		NO.	63	-	- 2		_		9.1		_	_	
	Dispanahear	_31	1410).	4		3499	- 0	A	- 1	-1			6.94		-	- 3	- 1
	ht-rottet	36	CMC			181	100				_	- 5 - 1	94		-1	_	
	Niconey	-11	9945			0.0	1	0	100	100	-		9.53	9	-	- 8	-
	Nonebody	38	HIRE	100	106	1000	100	000	- 14	.30	-	-	140	.0.1	_	- 1	- 1
	Markethilaglant	.0	1061	46	1 2	2963		7	0	-9-	-	-	3.40		_	- 4	- X
	15-Chunda	36	1963	96	6	202	45	- 1	709				517				
	Other .	13	397	26	- 36	373	100		26	100	0 1		0.16	4.0	-		- 6
	Chicago bergerings in a	10	6734	3.1	4.	LUM		- 14	- 41	- 10	. 0		9.5	1.0	9 4	- 8	

INTRACY (LOCAL BODY	90.0f	No. of	Ni Hustabili 2000 Reg	No. of Heave beld BID-Wee	Next months and	Novallance 883-019	% esidishayar JUII. Wee	Ve of Sergers lip which reasons for all tremment	No of problems of the Miles appropriate of the Control of the Cont	No dispessing to controlled system	N dispersing to controllised system	Quantity of Waste American (CFO)	Searchy of Marke unflected (TFU)	Quality of Waste treated 21710	Quantity of Wave presented in Compacting Since (1972)	Specific of Wester processed by the Charge (FPI)
Pallictel	22	HSd	78	-	160	-		-	-							
Profitation .	13	3873	7		The second second	100		INC		- 0	4	94			0.	
Panetson	11	TOA	60		312	-0		-	- 1		- 9	908				0
Pengelo	10	JULY	100		100	- 0		-			9	9.65			- 6	- 0
Patatasis	- 11	17800	17	-	2428	100		796	100	- 5	0	0,58	.0.41	- F		- 1
Puterskinsenmed	- 0	0.00	100		6166	-		70	- 1			0.38	E/84 - 1	Dishake		- 6
Performance.	19	1,040	45		1986	- 0					0.0	85				. 0
Peruduakerna	10	8271	- 10	-	100	100		38			4	9,1	631	4	- 1	
No. adul	18	10409	- 100	_	3466	100		- 80	- 81	- 1	- 4	636	84		. 0	
Twee	46	430	-		740	100		- 14	- 0	- 8	- 45	5.67				
Polymorphy	- 12	state 1			2006				- 1	-			- 8	0 1	4	
Novemb	7.0	11159	45		102	- 0		- 40	- 44	- 4		1040		40		
Districts	77	2704			379	- 4		100	196	100		40.	8.62	34		
Determents	74	1334			363			- 9	- 1			9.25	1			N.
Disperin Testinals	18	8400			(154			100			. 0	825		6	- 8	0
Committed	- 0	7965	4				-	- 10		. 8	- 6	8,24		6	- 6	6
Voltage	14	1246	- 4		399	- 4		- 15	- 34		9	1025	7	. 6	.0	
Variation	18	7745	-5-		212			26	- 27 1			- 04	0.31		-	10
Virintal	11	11010	-11		100	9	_	- 1	100	100		63	- 6			1
Victoria	- 77	11990	19	-	1315	700		366	160	4	. 0	0.3	- 4		8	
Voodunium	11.	Date	-	-	193		700	100	589	- 8	- 6	8.985				
Vorganner	29	14790	1		736	AA.	- 1	-				241	- 4		. 0	
Tricks.	10	414	100	-	205	- dr		300	- 70		18	4		- 3	0	- 1
Signi	29	16420	- 9	-	17/0	77	- 0		100			6.1	- 6	- 9	11	
TO be median	17.	11798	1000	- 1	3/2	- 10			- 4				- 1	2	8	
Withorn.	10	10345	766	-	100	-	-	75	200	- 8		8 E				- 8

ND.	Distraica	LOCAL BODY	NO OF WARDS	No of Historical	Ne Heurskold 820-bry	Ne of Mossehuld- INED-Wee	No of establishment	Nestablishment -BID-Dey	establishment _DSD-Wes	No of humans in which source level toronteel	Ns of entablishment in which incree level treatment	% dispecting to controlled system	No disposing to controlled system	Quantity of Weste generated (TPD)	Quantity of Wester collected (1799)	Quantity of Weste freezest (TFII)	Quantity of Waste presented in Comparing Sites (TPG)	Quantity of Waste processed in biometheradi on (TPD)
74	K	Adicharulism	20	11069	90	15	556	- 66	· ·	NI	-			-	0.6			
75		Alignat	16	5931	10	- 2	384	18	0		-	0	1	9	4			- 4
75 77 78 79 80 80 80 80		Alaranina	14	7350	- 4	0	1177	0	0			0	0	0.2	0.1	.0	- 1	0
77		Arctel	19	12968	30	0	1748	63	.0	10	19	0	12	4	4	4	0	- 0
28		Arientawa	13	3244	85	0	232	7.00	0		1	0	7	-0.1	0.1	- 6	0	. 0
79-		Chatgaranging	15	1861	10	- 4	1356	30	0	0.5	0.6	0	1	37		1	6	0
187		Chathanage	18	1092T	35	.0	292	15	.0	90	90		0	2	. 2	-2	9	q.
III.		Chiwan	23	1.1569	60	0	1400	69	0.	13	1.	- 1	. b	1	0.6	103	0.3	0.1
82		Chiraldone:	16	8629	50	. 0	1300	40	. 0	- 0	1	. 0	. 0	0.		0	0	Q.
10	2	Chillers	27	11164	40		450	- 66		3	1			.0	.0	D.	6	0
84	- 3	Clements.	13	#550	10		1033	- 4	. 0	- 3			1	.0	0	0	0	0
85 86		Exte Kallada	- 15	7234	0	9	8651			3	0	8		9.	. 0	0	6	
56		Tidams/actual	33	8300	.0		1260	- 0		3			. 0	- 0	0	0	9	
67	1	Slamedic	17	7778	73	-0	83	71		11	36		16	0	0	0	9	.0
88	20	Clampation	- 21	5753	76	.0	25	624		100	44	- 5	44	0	0	- 0	0	.0
89	9 9	Exhibitions	16.	8569	2256	.0	1206	13	. 9	16				0	0	- 9	0	- 6
100		tirrey	-31	10000	40		1780	30	. 9	1	1		1	3	1.2	22	0	0
91	8 8	Kadakkali	19	8800	9800	- 1	3700	2100	0	237		9.8	2.1	2		1	0	
92	1 1	Kaliwaitukkal	20	16006	.60		2674	14	-8	- 16			-0	2	1.8	1.4	0	
93.		Karavaktor	16.	8694	71		1470	48	- 0	1	1	4	1		0.27	0.31	- 0	-
94	8 4	Кигекруа	14	8000	- 0	.0				- 1		- 4						
92 93 94 95 66		Kommany	21	12976	40	-0	352	109	. 0	- 1	- 6		.0	0.5	8.35	0.75	- 6	
50		Kulakkuda	19	11253	D	. 0	536	126	0	1		- 4	. 0	0.45	3.500	1	- 1	
97		Kalankhanparan	25	11978	28	- 0	1640	. 26	a	1				0.25	1(3)	11/75	- 1	- 1
99.		Kylertemushs	20	11210	50		1250		0	2.			- 7	0.3	3.3	0.7	- 5	1
32		Keeni	14	E210	- 26	- 9	21)	- 14	0			9	- 1	0.1	-0,1	0.1	0	- 1
100		Kundera	14	456)	72		220	. 20	0	. 0		9	0	0	0.1	_0_	1	- 6
		Kienthior	17	1943	43	-8-	0		-0	10	- 1				- 4	- 0	- 9	- 8
100		Mayernit	- 20	15657	-53		2890	1	9.	29	81	. 0		10	4.1	1,5	45	33
100		Mills	15	3888	80		397	100	0	80		0	0	0.25	0.25	- 0	-1-	- 1
104 105		Microsthasitta	13	7728	13	- 1	115	JI.	0	- 15	70	. 0	0	0.2	D.	0	9	
		Mysin	ive-El-	7728	mellon.		215		Α		- Pi	Parties Parties	- 10			-2-		
106		Norman production	2)	150	- 10	80	122	14	- 12	9	1.66	- 50	- 08	16	- 11	:D:	13	9
106		Nedurations Negurations	18	17040 8526	40	- 10	133	- 14	- 55	52	61	9 9	.0	0	6	- 0	0	
		Noordskers	10	1085	16		703	0.65		0.12	63		- 1	8.23	0.23	0.21	0	
109 110		Niterial	13	5827	10		1564	15	- 0	60	- 58	- 6	0	9,55	0.73	0		-
700		Dachina	17	8422	39	-	1025	36	0	D		0	. 0	9.21	0.21	0.23	0	
312	11 17 T	parapin	18	8771	3	-	1096		X	0					-591			
115		Paperuni	23	10033	90		3649	0	21	- 0		0	0.0	0.15	0.125	0.125	- 0	8.
114		Pytharagraph	-20	11272	200	60	D.	34	0	13	10	0	- 0	6.5	6.1	- 8	0	0
115		Patterbi	13	6265	10		199	90	0	61	159	- 0	0	1.5	1.3	13	0	
110	- 1	Patturki	-															
		Vacakhekara	11	TEST	300		592	30	0	80	100	. 0	.0	1.25	0	0	0	- 1
117		Paytheumous	10	12977	- 51	- 1	726	- 11	0	20	32	.0			100		4	8
118		Pettysei	14	5690	- 1	0	250	0	- 0	. 0	- 1	0	.0	0.28	0.25	0.25	0	
119		Fedual	30	(1580	- 39		2201	28	0			0	.0	t	- 3	24	4	
120 121 122		Prisonthon	-71	3600	- 0		103/8	17	0	36	33		- 1	1	0.5	- 4	- 6	
125		Poomshaulare	21	9621	- 35		306	10:	00	26	33		0			_1_	0	- 6
522		Тоозвраину	16	8835	76	0	976	40	.0.	45	100		- 0	_ K	1.1	1.5	0	0

0 10

IIL NO:	DISTRICT LOCAL BODY	NO OF WARDS	No of Household	% Novembeld 2020-Deg	N of Recentlede- 020-Wes	Most existilitanesi	Sentablishment -Ozli-Bry	% excellentered _D2D-Wei	% of hences in which neuric level artiment	% of establishment in which course level treatment	% dispessing to sectoralized system	dispessing to resultable system	Quality of Waste grocected (TFD)	Question of Water collected (TPD)	Quantity of Wester treated (TPE)	Tago Allen Harris	Wasts processed in binomitments
tzi	Panavady	16	9181	47		1200	43		9		e e			_		-	
(24)	Sasthanours	19	15247	- 6	.0				0	100	- 0			1	- 1	- 0	
123	Second Sieth		9671		.0	1931		- 2	9	- 0	g.	. 0	- CI.		5 July 10		- 17
128	Sourcead South	16	8228	70	0	1138	65.	- 6	0	0	0	9	4	3	3.5		
127	Theirvoor	26	1200	. 0	0		0	- 9	0	13.7	0		2	1	- 1	- 6	0
121	Thurstone	22	11019	70	34	5250	. 59	30		. 6	0		5.8	2.9	2.9	- 6	- 6
129	Thickymbhagam	- 13	5680	62	.0	272	70	0	- 1	1.5	0		4	2.5	2.9		9
139	Thompale	36	6368	70	. 0	239	65:	.0		- 0	- 0			1.5	3.5	0	9
131	Thuyslakharn	33	8000	6	. 0	1368	79.	0	. 0	. 4	0	4	. 0	. 6			- 0
(32.)	Thodiyout	23	14237		- 5	2224	82	.0	1	1	.0	- 1	5.5	3.5	- 4	0	0
133	Thrikkanuva	16	12238		- 0	2005	ito.	.0	12. 14. 14. 14. 14.	1.			4.9	1.8	- 0		0
334	Thrikkovilvattom	23	20027	.0		6460	6	0	6	.0	. 0			- E		6	
133	Unimarisan	20	11584	90		2153	60	.0	10	18		- 0	8,636	0,0216	0	. 0	. 0
726	Velination	19	9010	12	. 0	2250	4	.0	4	1.			0		- 0	0	0
337	Vetigaes.	16	10517	63	. 2	1983		30	4.1	1		1	0.		. 0	. 0	0
13 (3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	Verilikkenste	21	1850	. 0	460	805		- 12	3			. 0	0.	. 0		0	0
139	Vilaboredy	20	10897	.46	. 0	3356	32	- 31	16	12			0	. 0		. 6	. 0
140	West Kathada	20	5813	74	0	709	34	6 -	- 76			9	0	0	0.	0	9.
141	Yenny	34	14321	190	. 0	615	1	17 16	9	11811		1	8. 7	9		0	. 0

Management type as a February

ž 8

SL, NO:	DISTRICT	LOCAL BODY	NO OF WARRE	Nest Received	Th Bassychold D261-Dey	Ned Boundside BQD-Wei	No of smalthdooms	Montablishment -02D-Dry	% sniekteitenner _DID-Wet	% of investe to which assume level trainess	% of establishment in which assume brief irreferral	% disposing to sentration system	% dispessing to the contradictal against	Quantity of Waste generated (TPD)	Quantity of Wrote collected (TPO)	Quantity of Water treated (TPD)	Quantity of Wyste generated to Compositing Sime (TPD)	biomybered
10		Anicoust	13	5067			0.	0			_	- 0	-	20kg	204g	- 0	0	0
107	AC S	Araremula	15	9671	0	106	1897	0	100	0	0	0		2.	2.5	1	. 0	0
141 141 165 167 168		Annappulam	-15	6818	8	4	179	- 9		1.	3	0.	. 0	20	1.2	0	0	0
145	. 11	Agross	16	9548	0	33	835	. 0	37	0	10	- 0	0.	20Kg	28	- 4	0	0
105	A .	Chehiterkara	14	6513	0.1	0	4			0		9						110
147		CtersAols	15	A309	0.	0	121	B		9.	0	9	-0	2044	30kg	325kg	0	0
141		Chicor	- 13	5713	0.	0.	47	18		0		- 0	D	41 KG	6000	ARKS	0	0
149	M	Diselber	15	4581	0	0	3180	- 6		0	- 1	- 6	D	3,95a	STOKE.	- 4	0	.0
151-	7 3	Englerengelan	35	7241		36	340			0	- 15	- 0	0	100 6.0	100 tid.	.0	0	0
15E	10	Eurou	17.	9611	0		556	. 10		0	- 41	- 0	-0.	55.Kg	55Kg	0	0	0
152.	1 3	Environt	17	8920	0	- 12	-00	. 0	- 11		2	745	-0.	12000g	12214	- 0	0	-0
133.4	- T	Eshankutan	-20	15535	- 9	34	2510	. 6	76	0	1	.0.	2.	1400 tg	1400kg	.0	0	0
題	T .	Estymatics	14	5507		100	1226	. 0	100	50	36	0		0.004	0:034	0.034	-0	0
世界 日日日日日 日日		Kirkenpinsal	17.	9099	- 0	e e	1697		- 0		- 1	.0	2	520kg	ling	e .	0	0
1204	1	Kattera	13	RCO8		- 34	997	-7	76	- 8	1	.0	0	0.6		-	0.3	
324	1	Keejodr	20	12963	9	51	192		62	9	- 9			900	908	0		0
110	1	Kallpagpara	34.	5041	Ø:	1	797	- 0	9	0	- 0	D	9	36	3/0	0	9	0
130		Kinfgoor	14	6430	0		260		87	0	. 0	(99)	199		. 16kg	0	0	- 0
ieo	1	Keduren	1.0	8972	111		10995		g ·		_1_	8		-	2000 kg	720 kg	0	8
161 162 163		Kalayten	17	104%			2191			0	- 9		- 6	8.5	0.5	9.5	9.3	0.5
192		Karol	18	10028	7.	59	1000		10	95	. 10	-	30	500	250	350	100	0
160		Costaned	13	4915	0	_ Nr.	31	9	a	0		- 8	- 0	- 88	- 65	0	-0	
186		(Contamp)	13	5600	0	0	760	- 0	9	. 0		.9.	- 0		-	_	_	
len	1	COZHANCHERA Y	33	4333	8.	12	2191	· v	1	.0	•		1	900 kg	210kg	21014	160 kg	- 1
185 167	1	Mailmete.	16	#229	- 11	100	429	.0	TOO	R	190	190	100	6.000	9.893	0.033	10	- 16
765	1	Kaneanthaner:	- 25	6454	0	52	403	- 6	70	9		- 4	0	Hilling	19968	- 6	.0	0
168	1	Kurdeer	14	6958	0		1045	0	0	0		0	9	1,000	0 - 111000	10000	1	
149		Material agostra	- 16	6324	0		959	9	100	98	100	- 9	0	3.4	25	0	- 0	- 8
170		Mellsopally	34	6091	0	766	1370	0	100	0		- 4	9	250 am	200 test	0	- 0	- 0
171		Mulliquithautry	0	4987	- 0	70	1054	- 0	1	- 1		- 0	9	4	0.01	0.01	0	0
語		Muhmil		-5145		- 10-				-				10001g	190Kg	- 0	2000	9
124 124		Mulanta	- 10	3600 4931	0		846	.0	12	0	12	2		540 kg	545 kg	566 566	NS NS	NB Nii
13		Newtonesti	13	5278	- 2	81	- 55	9	102	60	199	100	100	180 kg	150 kg 360 kg	180	0	0
쌃		Nerarquenin	13	4591	0	97	126	0	10	98	100	199	199	-	650kg	Attitie	0	0
拼		Nickeopyrani Nickeopyrani	15	4477	2	82	316	0	10	73	97 80		8	450kg	612	613	-	0
200		Omilia	- 44	444		- 50	210.	503	2000	0.60	100	2.5	1.00	714	5 tplace			
178.	1		34	511E		0.	356	90	229	50	711	0	ū.	950kg	entyl	5	400kg	. 0
175		Pational	23	14939		.60	79	9	31			0	U	0.5	0.5	, Nil	- 46	mit
180		Pandefan Thekkekkoen	14	7000		MT	m	t t	218	ks	68							
197	,	Periogara.	- 55	6700	0:	- 4	310		- 0.	- 0	. 0	0.	0.	65 kg:	90 kg	0	D	- 10
(8) (8) (8)		Pantiution	19	21402	- 0.	79	1736	.0	205	. 0			0			0	0	0
192		Parametres	- 13	5048	0	52	292	- 0	79	3	1					-		
134		lianni	- 10	675E	4	100	325	0	- 71	100	96		2.	0.3	0.1	0.1	0.5	0.15
103		Ranni Angadi	- 13	5001	- 4	100	300	30	11	95	96	-6-	1	200 kg	300 kg	200	100 kg	0
198		Barri Pasherengady	-17	9229	0	100	430		100-		100	100	100	600 tig/month	600	605	0	0
HIT	M I	Ranni Perpend	19	7356		69	142		29	0	-0	-	0	20kg	16kg	18kg	0	0

AD:	DISTRICT	FOCYT BOUA	NO OF WARDS	No of Humebold	Meantold BES-Dry	Ne of Humanisis- mile Wes	No of entirely and the second	Nantefühlenmer -Dilli-Beg	rateriochemist _DZD-Wei	% of become (a which searce level testiment	Not establishment le which mone (c-c) beatmans	N dispusing to contraduct system	45 disputing to convalued system	Quantity of Wests generated (TPU)	Quantity of Waste collected (1970)	Quantity of Water treemil (TPB)		Water present in biomethoral
156		Seethanings	13	7841	0	100	123		100		9		0	60kg	26Gg	20g	a	0
189	1	Theyerbods	13	4190	0	0	19%	1	- 41	10.	0	0	0	-0	. 0	.0	- a	U.
190 191	9 0	Thecapudationy	13	5450		10	638		.13	2	1	.0	0	350Syphoeth	150kg/mooth	350Kg	0	0.
165		Thumpamen	13	2887	- 0	300	267	- 1	100	- 17	. 0	0.	0	NA spd.	JER tyd	141	U	0
192 193 194	: 3	Vadamerikkora	12	6834		1	401		129		1	. 0		450 kg	#10 kg	410	- 0	. 0
190		Vallenda	13	3724		70	458	- 1	21	- 0	0	- 4		. 0	0	0	0	0
194		Verhopskirs	13	5600	0	106	250		100	- 4	0		4.	100.60	1870 600	1870 KG		
11/5		A)s	- 13	6670	0	- 0	136	- 5	0.	-15	0	- 0	-0	0.64	0.04	0.01	NA.	NA
13/0	· ** 1	Azvitatapuzha Azvitatapuzha zeuzh	15	2121	0	-	164				_		_	_	_			
196	0.7	Arktografia	13	9977		- N.			_	2		.0	_				-	
196 (97 198 (99	2 1	Aleotogray	11	60965	60	-	324	30	0	- 1	4	n n	-	0.3	0.2	0	- 0	
200		Attent	22	0.0	100	-	344	.700		-		- 1	-	0.7	0.2	.0.7	- 0	0.
201 201 202 203 203 204 205	*	Aryst:	13	-9088	100	- 6	426	200	0	3:	- 1	- 0		0.1	0.1	9.3	0	0
202	n l	Bhinnhhavy	31	13420	46		140	0.0	D	32.6	09.1	0	- 6	0.4	0.29	1.1	0	- 1
205	A 1	Bathanoor	104	6323	- 0	11	320	. 6	0	3)	36	D	- 0		0	- 61	0	- 0
204		Chromatican	13	4900	- 11		122	- 3	0.	18	. 0	- 9	- 2	. 0	-0	0	0	
205	. 3	Chenographysican	17	3941	38		348	- 0		74	199	- 0						
206		Czesoldkia Tistperuedkia	18															
287		Charmet.	14	7400	II.	1	212	9		- 4	0	*	0		0	0	0	
20A 209	3	Cherganal	. 15	6770	40	0	126	30	. 4	10	. 56			8.5		6	0	D
259	3	Cherthole soors	13	19458	80	91	267	10	40	33	28				0.	- 0	0	0
310	. //	Chenatians	13	4347	100	6	100	100			57		- 0	3.21	1	- 6	0	9.2
21)	1 2	Chrohoteges	31	10932	0.	0	049	-	-				- 0-	1.5	- 53	13.	0	6
212	3 3	Chingoli	13	3078	40	-	934		- 6	- 1	- 0		- 4	-	100			
214	. 9	Chanddare Decksturgers	13	57%Y 6325	0	9	1240	0		-8-			- 0	1.1	0.2	- 5	7	0.
		Edethus	13	6594	100	0	112	100	0	20	(00	0	0	0.001	1000	0.002	- 8	-0
216	4	Kelturunne	16.	5018	- 24	-	154	40	7.97	40	5%	.0.	0	. 0	0	- 6	- 8	- 0
215 216 217		Kadakarappally	14	2009	D	0	. 291	-6	b	0		0	0					
910	-	Kaintaryovaman	nin 12 in		- 30	-0	- 18	80		Y.	300	- 6	- la	0.2	0.2	0.1	0	- 6
219		Kandalinor	18	7440	26	54	1354	.90	10	91	90	0	Ó	9,31	0		0	C
220		Karálostiy		8300	100	0	455	100	0	90	100	a a	0	0.5	0.5	0.5	0.5	0 -
225	- 4	Karbitanally		:4479	93	0.	.58	100	- 0	0		.00	0	-0	- 0	- 6	8.	- 8
333.	- 3	Kuniom	15	7216	0	0	7417	0	0	0		8.	0	0			0	- 6
322	1 4	Kewan	13	4126			471						120	3.1	0.9	10.9	-8	- 0
334		Kodernthuruth	13	6055	80	20	269	25	. 13	33	100	- 0	0	Ü	0.	. 0	0	D.
ᇏ	- 3	Kodminon	II	31(35-	- 8	0.	- 425	- 0	· ·	. 11	0	- 8	- 6	. 6		. 0	- 8	D.
	- 3	Kumananan	15	7.77											100	17.17	- 10	100
225	9	Kertisthode.	16.	3400	97		373	. 0	0	it	0	- 0		. 0	0	- 8	- 0	0
236 221 223 223 224 225 225 226 226 228 228	- 4	Managethery	23	7106	80	2	200	100	-	- 20				100	70.5	160	- 60	Tip .
230	- 4	Mararitulars North	18	8075	100	0.	192	- 50	0	25	4	- 0	. 0	47	3T	- 31	-0	2
111		Marachinelain yours	23	15938	93	0	#692 2437	401	108	1.	1664	2	- 0	0	- 0	. 9	- 6	
232		Masmikare Tremarelyslass	17	8013	29		383	.0	9	26 0	#3 #	0	0	0	0	0	0	- 6
m	1	MeirGkara	10	14461	40		1653			is .			0		-	-1,76	-	-
234	- 3	Thiostes Mutannia	100	171723	377		0.554		_1750;	- 20		- 9		berner :	Contract of	12.00	L Warner	
274.5	: 38	ALCOHOLD I	18	2593	50	- 0	10	79	- 0	74	59)	- 5	50	TOOKing	762kg	. 0	7395kg	- D:

2125 236 237 238 239 240 241 241 241 241 241 241 241 241	Multiplication Mathematic Methodology Methodology Modramid Pulsared Pulsare	18 21 22 21 22 27 32 32 32 32 32 32 32 32 32 32 32 32 32	8370 8305 2804 3186 3186 3186 9238 8546 8028 7245 8946 13953 11009 3388 8612 8662 8560	360 0 100 0 100 0 100 26 88 88 80 80 100 100	8 9 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	560 80 339 1578 460 460 506 521 531	0 0 0 0 0 0 88	0 0 0	0 0 100	8 0 100 33	1	g - d - 0	1.5 # 9.05T	300kg	300kg	0 0	Ú.
200 227 229 229 240 241 244 245 246 247 248 249 249 249 249 249 249 249 249 249 249	Mathebalen Material Notinendl Notinendl Notinendl Palend Palend Palend Palend Palend Patriol P	11 17 18 18 18 18 18 18 18 18 18 18 18 18 18	8905 2804 1186 2841 9328 8546 8625 7255 2946 13951 11009	0 160 0 100 26 88 88 8 80 100 100	9 160 0 0 0 0 0 0 0 0 0	30 378 1578 486 486 586 523 632	0 0 0 0 88 0	9 9 9	100	100	- 1		- 4	- 0	.0		01
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233 254 255 256 257 258 257 258 260 260 260 260 260 260 260	Humblad		8326	- 0	- 0	346	0.	0	0	- 1	- 6	0			-		
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258 259 260 260 261 263 263 263	1 Programme Television V	13	2956	30	- 9	506	a a	0	100	100		6	089.754ac	9	- 9	0	0
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263 263 264 265	The Prince Security.		17273	83	- 0	261	43.		- 1	1		. 0	PROGRAMONT	DOOKGIMONT	OOKG/MON	0	0
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265	Thylattunney	- 33	1928	. 30	+6	928	40	- 0	13	15	2	9	19000CG/81	100000	- 0	0	- 0
265	Vallhaman	15	1679	11	0	5918	20	-0	20	20	-	- 4	-2-	- 1	_1_	0	0
265	Vaystar	16	1617	- 0	- 8	211	- 1	0	13	38	0			α	0	0	0
200	Venyapran	13	1680	0 p	0.0	240	- 1	0	0	0	- 1	9	- 1		0	0	0
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26T KE	Akalahungan	13	1780	474	74	0	70	. 0	67	1-0	0 -	- 1	1160 kg	2160 iu	23465sc	45 kg	110.8x
O BBC	Account	16	6254	362	-50		45	0	92	0	0		1400	0	0	1400	0
268 7	Athiranguahe	22	12101	2501	.10	. 0	16	0		У.	16	5	3 ton	- (f	- 1	500Na	0
239. T	Appricateurs	20	10445	1002	1/9	49	608	-624	1 1		W		1379 kg	2579.kg	1559 kg	.15 kg	T10 km
271 LA	Appearant	20	10521	1150	100	. 0	TI.	. 0	13	10			3230 kg	3230 kg	3230 kg	1353a	0
272 1	Sterenungatem	33	3340														
271 A	Chimps	15	6240	1644	73		49.	. 0	13		0:		2230Kg	2220Kg	2230 KG	430 Kg	D
576 M	phiral/katava	20	10586	3122	106		- 60	- 0	105	- 11	0	0	2009	2600	2000	0	0
275	Elitulary	3.0	7790	210	45	. 0	72	0	4D	72	0		248KGS	209KG5	15KG5	5	9
275 276 277	Champing	23	76843	2342	- 3	. 0	IN.	.0	26	15	0	. 4	236	3055an	- 48	M0099A	23006g
227	Ketinat	110	1717	1882	0	. 0		. 0		0	0	- 4	220	- U	- 0	. 0	0
234 259	Saladeouture	13	3317	128	100	. 0	150	. 0	100	100	0	0	1,00kg	7356	75.kg	- 0	9
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260	Katathaythe	12	3905	234	45	.0	100	- 10	90	90	0	4	0.034	0.039	0.009	0	0
291	(Caltura (Valkors)	15	7567	291			33		- 1	10	- 0	-	1004	Tong	79kg	- 0	0
262	(Calture (Valkors) Konskhary	775	6362	117	45	0	30		.0	70:	9	- 8	0.5	6.5	3.5	0	0
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NO:	нетист	FLOCAL BODY	NO OF WARDS	No of Hemetuld	Neuschald BDD-Bry	% of Household- D2S-Was	No of extendibliouser	Semblikaen -DIB-Dry	% establisheren _D2D-Wei	Ni of honors in which stores level restored	% of establishment in which source level treatment	% disposing to controlled system	disposing to recording option	Quantity of Wests grounded (TPD)	Quantity of Weater collected (EPO)	Quantity of Wasts (res)rd (TPD)	Quantity of Waste processed in Compening Sites (TPD)	Quantity of Waste processed to biomerbenati on (TPB)
224		Velivemoor	n	3046	436	72	0	- 1	-	75	THE STREET	-	0	925	9.95	0.7	0.03	6971
535		Velleymor	13	6268	919	200		1	0.	3	0	0	0.	0.01	0.02	0.03	0	- 0
334		(Velica)	16	6/84	940.	73	0	32	- 6			. 0	0	8.4	0.4		0	0
334 327		Vilayapanin	. 19	10741	1120	85	0		0		- 1	43	0	6.2	0.3	8.2	0	0
338	1.	Adinaly	-21	10767	11540	92	3.	.93	28	70	10	25	25	10		- 3	100	. 0
331	. 0	Alatinds	- 13	2661	26	- 95	0	13	. 0	25	36	- 0	0		0.1	0.1	1	0.5
240	tt.	i Aeskulves	-10	5141	1902	21	0	32	0	25	- 69	25	- 11	1.3	6.3	2.5		1
347	CR5	Approprie	1)	400)	97	10	0	37	0	(2	- 1	- 15	- 22	8.5	6.1	0.1	- 2	- 0
141	TE.	Distance of Fey	- 13	2853	168	18	- 0	- 31	. 0	34	29	43	- 24	1.5	6.5	2.1	-	- 0
30	1.	Chaldapallett	13	7120	407	4		80	0	2V	65	62	25	1.5	0.71	0.75	- 0	
344		Ordentarial	- 13	46)3	923	- 75	0	-70	0	25	25	83	10.	0.4	0.2	63	1	0
341 348		DesGulatt	10	2894 764	108	- 40		- 0	0	10	16	25	10		7,0	0	1	
347	-	Edwards	13	5016	763	89		49	· e	23	22	0	0	437	4.18	4.18	1.67	0
348	1	Eboyara	17	5160	950	80	4	. 85	29	65	50	30	10	3.2	3.1	3,1	3.5	9.2
340		Ecutione	14	4698	692	180		75	9	50:	25	100	100	1.3	0.3	2,1		
330	1	likeli Karihade	18	10580	120	83.	- 6	.0	0	50	.78	60	50	3.1	1			. 0
221	1	Kamakaha	15	6234	4592	180		.76	Q.	90	60		à	4		2.5	- 1	
352		Kenbysi	16	6718	962	82		30	0	20	10	65		6.7	1.9	1.8	- 0	0
121		(CarrSullass)	-10	458D	0	-75		(00)	101	29	35	100	25	139	0.5	0.5	63	. 0
254		Karmmoorn	10	5564	765	76		.75	0	50	30	- 4	a	0.6	0.2	8.1	92	
388		Karmkunger	13	4122	101	0	- 4	.63	0	56:	50	- 0	a.	0.43	0,42	0.43	0.64	- 4
154		(Earlingson)	17.	8707	1054	11	0	65	e ·	80	7.5		- (E)	6.5	4.5	4.5	1 2	0
257		Kodkulum	0	3984	113	92	- 0	99	. 0	38	36	0	1	140	2.93	1.95	1 0	0
713		Dickleyer	13	4728	133	- 95		02	9	20	65	0	2	1.65	13	0.8	0	1
119	1	Henothelic	-19	8770	856	85	- 0	80	90	35	20	25	30	1.5	0.5	- 44		1 0
100	-	Kinfayahoo	13	3436	.140	10	0	68	- 0	40	143	0	- 0	- 1	18	1.8	0.5	0.21
761 262	-	Konstonengelan	15	11850	1/22 2/280	30	13	20 96	165	87	4	0	95	4	4	3.8	3.5	3.5
岩	1	Kumile.	13	4738	138	34	- 0	40		45	25	0	- 0	4.50	2.45	2.48	1 2	1
164	1	Manhort, Markown	13	4388	802	48	0	74		64	- 4	26	- 6	2.259	0.012	0.012	0	0
783	-	Minterest - 100	*********	-0.04650-0.0	nine Still value	NO (22)	00	300	105	TI	-73	300	25	1.39	0.5	.0.5	63	- 4
266	1	INfarfanpursen:	.13	3592	15	9	0	1001		98	30	-0	90	3.9	0.6	1.1	8.15	. 0
367		Muntar	2.5	9107	3152	70	0.	39	70	(00	100	40	0	44485	04485	44485	- 1	
164	]	Mictoro	13	2563	2300	73	0.	- 90	0	60	30	50	50	11	9.5	2.6	0.2	0
369	]	Nedurkantim	.22	15334	39363	75	0.	90	4.	33	.10	0	30	13.41		-	-	-
179		Palivant	14	5000	1300	70	0	- 65	0	70	36	80	71	3.26	0.5	0.5	- 2	0.2
EIL.		Pampedampun	. 16	6831	150	70	9	70	0	7.5	3/5	30	20	535			-	-
351		Februade	.19	50000	1425	100	0	12	1	10	15	33	85	1.1	1.5	1.5	3	
577	1	Prisontifierum	-14	4242	1670	- 4	- 0	72	0	10	3)	-60	- 23	2	1.5	0.9	2.4	0
374	1	Europadia	13	3170	414	100	0	70	0	50	10	190	70	0.03	0.33	0.69	0.49	0.48
319	-	Bajeked	12	3819	880	85	15	- 65	85	75	75	100	90	0.49	0.68	0.68	0.68	9,68
西班牙西海		Ratherary	.0	6052	150	25	79	70	0	70	73	91	90	0.58 6.69	4.26	4.26	0.6	0
222	1	Benthscoatz.	- 13	4941	170	11	-	(00)	90. Hi	WI NO	72	74	74	3.39	2.75	1.75	5.8	0
275	1	Serupathy	13	4300 7607	130	78	-	75	84	90	100	30	10	0.4	0.2	P.2	0.2	0
767	1	Oduntuachola	16	6254	248	- 0	60	70	-70	40	70	100	60	2.5	0.3	0.15	0.11	0
38)	1	Upputiers	18	8184	1211	60	8	336	0	98	60	60	90	0.9	0.0	0.3	0.15	1 0
382	1	Vandamiedu	18	10373	1109	0	11	8		19	29	1 7	1	9.17	86	8.6	1.6	0.2
783	4	Vandorrise	21	13969	1011	1 0	66	10	60	100	70	70	70	1 1	3	1	1 3	1 2

NO:	DESTRICT LOCAL BODY	WARDS	Na of Hyumbaid	Household BIO-Dry	Ti of Hazarticki- 1120-Wei	Newf	*Lestablishment -028-B-p	problitorim pob-wei	N. of houses in which source level treasured	We of controllerance in which marrie level treatment	No disposing to convertined against	Ni disposing to nestrations system	Quantity of Waste generated (TPD)	Quantity of Water satisfied (TPD)	Questity of Waste treated (TPB)	Queettly of Waste processed in Compositing Aires (TPD)	Wester processed to
311 313 386 347 319 389	Vanagavan.	12	11001	1123	.40	- 6	56		21	30	0		3.3	13	14		- 0
385	Vertilisaty	18	10091	1812	50	. 0	70		19	10	0.		9.79	0.1	1.5	1	
386	Valtavada	-13	2343	196	51	- 0	60:		- 1	20	0		0.1	-0.1	0.1	10.0	2.0
347	Variations	38	9300	410	51	D	94		103	21	73	-	1.1	1.1	1.1	0	6
248	Vefattorysl	17	8448	1072	91	. 0	62		53	- 85	0.		7.19	341	41	0.1	- 6
389	Veligenation	15	6870	1000	75	.0	83	. 2	13	39	0	- 1	0.1	0.1	8.1	0.1	0.1

20.00

. 10

9.82

AC.	HBTHICT	LOCAL BODY	NO OF WARDS	No of Household	Neurchald B10-Dep	No of Hospitali- D2B-Wel	Ma-alf establishpared	Neutobilibreum -D2D-Dey	estably/Separa _DDD-Wes	% of bennes in which secure level trainers	satabilishment in	% disposing to controlleral system	disposing to montrollead system	Quantity of Wester generated (TPD)	Quantity of Waste collected (TPD)	Quantity of Wasse Insected (TPD)	Quantity of Wants presented in Composting Sites (TPD)	Wester presented in biomerhanasi
390 (		Alkiamenta	34	7689	1640	. 34	0			D		- 1	D.	502	0.5	9.5		-
497	n	Atengada	21	16317	920	40	0	35	0.	10	10	- 0	0	4.03	0	0	9.	
恢		Antistic	10	8454	1692	19	c	12	- 0	1	1 1	- 10		0.06	11.0012		8,00036	D.90012
쓞		Acrestos	u	4955	189	0	0	0	-	9		- 1	0		0	0::	2	
102 100 201 185	K	Augustus	16	6529	150		0	a a	0		490	-0-	0		0	0		
쎯	ů.	Aves	36	640¢	1638	- 0	0	0	0	1	10	0	0	- 5	0.	0		0
5061	1.	CONTRACTOR OF THE PROPERTY OF	16	6921	598	- 2	0	0	0	0	0	0	0	- 9	0	0	- 10	
쓞		Asmerjaska	13	570H	548		0	.0.	g .	10	35	- 1		. 0	- 0	0.	10	
700	4	Chefature	-21	10535	- 62	0	- 0	0		D.	0	0	0		0	0	- 9	
鲻	M-	Cheiderangeless	16	9605	1100	34.	0	- 4	0	100	19	0	9	5.3	63	4.3		
200 200 200 600 600 600 600 600 600 600		Chargement	18	10364	468	100	0	64	9	95	75	0	0	6.99	6.99	6.00	- 1	
<b>##</b>	m 3	Chrymefut	17	10832	368	M	0	67	g.	79.	67	0	67	3.7	3.7	3.7	- 0	
602	1	Chitanawa.	76	9583	417	10	9	0	- 0	99	18	- 0	0	4.3	3	1	1 1	
100		Churredkiata	116	10605	1996	75	9	-0	G.	- 0		0	a.	9 TD0	₩7DF	91700	0	
404		Chotmiston	34	9097	480	92	0	18	0	0.5	15	1	41	4.3 YPD	43.770	43 000		0
401	1	Eldekkettaneyel	16	6033	800	49	g.	100	g .	40	44	0	0	7.170	1770	7 110	- 0	
106		Eslativals	7.5	17067	4154	10	.0	61	0	22:	43	0	0	3.5	9	- 0	10	.0
407	1	Edwarmickadu	-15	6346	894	75	0	100	- G	0	0	0	0	4	3	1	- 0.	
638		Eispkumspooms	n	15479	1592	92	6	100	g:	25.	42	0	- er	7			.0.	
400		Cland	11	5550	137	- 0.4	0	100	0	100	100	0	0	-				
410		Patrik/virs	14	6982	196	- 98	0	100	0	100	500	ă ă	u		- 0	0	- 2	.0.
01.1		Kutteraktueli	13	4121	61V	0	0	0.	0	- 0	- 8		α					
412		Codangation	20	16(23)	3355	0	0	0	0	. 0	- 0	- 0	a		1			
cu	1	Kalade	17	9733	25/2	62	0	Ó	0	12	4	- 0	a ·	7.06	1.6	0.9	0.5	9.5
414		Kaltneskarki	15	7511	120		0		0	7	- 4	- 0	16.	14000	-		-	
413		Kergoor	- 17	4790	242	0	0	0	0	. 0	14	- 0	- 3	. 0	- 6	0	- 0	.0
43B	1	Kanduity	17	9600	2656	0	0	- 0	0	9.	- 0		0:	. 0	.0:	0	.0	- 0
417	1	Kademilooc	20	1(73)	1211	0.	0	0	9	1	1		- 11	0	- 0	0	0	- 0
413		Y,westengad	10	9480	1770	0	0	0	0	9	0	0	10	0	0	0	1 1	- 0
419	1	Kemantare	-11	4106	720	0		a						HOT ASSESSED		. 0	. 0	U
127		200mletele	- Depth	12168	716						- 11	-	-	Sin data systable				
431		Kithakkaryhaker	19	9253	530	0		· g·		0	9	0						
433		Kerrappedt	(3	6172	425	0		-0		100	100	- 5	0	0	0	g .	- 9	.0
420		Katteodi	-11	1451)	,7100	30	- 0	0.		36	1	-0		0		0.	1 1	- 11
424		Kumbulan	18	10125	1725	0.		0	0	- 4	1	0	100	12	0	- 1	0	0
423		Kunthsforgi	17	8719	1400	100		90		100	90	0.	0	sec attimated	not collected	- 4	. 0	D
436		Kurrethinsty	10	12418	3940	13	0.		0	4	10	1	0	8.3	0	0	-0	- 11
49999	1	Контобити	15	6300	150	34		V00		46	45							
628		Kernebushi	17	- 1100	120			0	0		0		0.	- 6	. 0		:0	.0.
429	1	Kurapody	20	(2)21	0	16				1		- 0						
628 629 420		Ksahuppiti	(3	3015	195	34		31	4	0	0	W-	D	0.	.0	6		- 0
431		Malayknoor -	17	6266	.971	0			4	0.		0	0	0	0			. 4
10.23		Negleyearass	- 01	****	0000	17027	-	- 1		-	0	- 0	- 6		- 0	0.	- 1	- 4
45		Marreil		5548	219	- 0					0	1 1	0	9	0	- 0	- 4	0
433	1	Macialism	-12	5253	1585	- 83	19	- 2	-	1	0	0	0	12800	0	0	1 3	1
601		Minister	-12	3857	191	- 8		-2	-	1		7		0.03	2001	0.001	ML	NS.
469.1		Maretr	14	6459	350	6	- 6			0		-	- 0	- eux	ed	all	0	181

St.	DISTRICT	LOCAL BODY	NO-OF WAJIBS	Ne sl Henstheld	Nemetrali Hermitali 1920-Dry	No. of Montelinid- DIMINATE	No of extendishment	Neistörhmut 820-Dry	% establishment _D2D-Wel	The off femores for webleth source Jovel treatment	% of outstillationed to which course level treatment	% disposing to reaccided spress	dispecting to controlled system	Questity of Wests generated (TPD)	Quantity of Waste antivered (TPD)	Generally of Wester (realed (TPB)	Waste processed in	Quantity of Weste processed in biomentaged on (TPO)
407		Moskhannat	16	1994	296		0	-	8	. 5		. 0		- 60	rdi	- 46		
iros-		Mudakkusha	0	7346	799		- 0			0	0		- 8	UUOKO		0	0	18
435 460 441 440 440		Modenthursthi	10.	3726	. 0		- 0		-0-	- 0	-0				1201			
460		Moneyhelic	36	5439	(105	- 4	.0	. 0	0	0	0	- 0.						
441		Necessardules	(9	12509	2521	57	- 0	10	0	. 0			8	110000				
442		Nethroteseny	26	-12271			0	J		. 0	E10/0	D		34	0.1	0.5	6	. 0
AU		MERICAN	16	7801			0			0.		. 0		0	0	. 0	0	-0
報		Neophial	16	793.7	3836	- 6	. 0.	4.	. 0		. 0		2.		- 2	- 1	. 0	- 11
445		Okkal	36	978年		- 0	- 0	- 6	- 6		0		- 6	0	a	- 6	.0	- 8
665 467 668 689 650 601		Thingoinii		+506	133	76	. 0.	159	.8		. 0			0	- 0		- 6	- 0
461.3		Patikhuzha		3656	1117	0	. 8		0.	. 5	. 6			8.	- di		.0	- 0
448		Polarimangalain	23	13549	3140	79.	. 0	. 16	.0.	92	90.		- 5				0	0
<b>##</b>		Nilippore	23	13349	2341.	. 35		70	.0	32	90	. 6		19	0.01		- 0	. 0
450		Partheticate	18	9660	3623		- 8		0.	- 11	93	. 6	7	1	4.9			
<b>311</b>		Paratiadyou:	22	1130	213	. 0			0	76	1587	- 6			-			
401 401 404		People's	13	単に支字	588	- 6	- P	4.	0	100	100	- 4						
453		Pisdings	14	7649	3 197	34	. 0		0	100	100		2	a married and		Lance Co.		
454		Produkte	- 13	9453	(5)4	32	- 4		.0	12	- 0		9	2219 KG	2279 N.G.	1789 8.0	. 9	-8
433		Pethanikadu	13	3657	759			11	0	20	. 0		. 9	100kg/dec	0	0	. 0	- 0
456 437		Pytherodickup	12	.9932	436	6	- 10		D.	6	6		- 8	No. Estimated	No.	8	- 9	- 5
437		Samurangalan	201-	12735	1296	42	- 4	7	27		46		- 0	ATPD	STED	0	Base	
438	. 0	Kayamergalam	14	6005	2005	25	200	3		14	1	4	- 0		47,1577	a line	30000	
450		Sreenools. Negatare	16	37W9	250				-		.0	9.		8	90		0	
460		Threesand	- 13.	7835	606	45		54	. 0			- 6	- 5	2.	. 70	- 8	- 9	
460 /61 462		Discontinue	14	7572	5554				11.00	16	10.	100		Land	D.	0	n.	- 0
462		Thursvar	20	19379	365							- 0	· · ·		17300	0	. 0	
461		Uminoporous	20	19022	1586		-0					- 8	- 0					
Abi		Vatuxiekkara	17	3549	1/38%		7			4	- 11		0					
461		Veterokodo- Pschardricini	16	6179	1628	.0	.0	9	0				0					
2011	-	Nekamu		-	-141	-	0			- 64	- 1		-0-					- Annual
467		Varagetti,	10	6087	271	0.	0	346	100		- 8	- 0	. 13	5.87	0.67	D.	Part of the last	VIII NAME OF THE OWNER,
468		Vengouths	16	9275	1858	Ð		0			.0	. 6	.0		. 0	0	- 6	
107		Varbaklorum	20	17202	718	. 0	0	- No. 10	200	- 2		0	0	1	100	- 0	0	
470		Vengrele	23	17853	830			0		78	71		0	3	- 8	- 5	- 6	- 1
ATI		Vergon	15	3835	332	0	- 0	W-11			1.6	1		10	10		0	

27.44

0.00

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SL.	DISTRICT	LOCAL HORY	NO OF WARDS	No of Hemsehold	Nosephold B2D-Dry	N. of Horomole- DIB-Wei	No of substititionssi	Neuralifeberest -BID-Dry	ntablifamini _pzb-Wei	No of Bossess on which contry bred present	hi of establishment in which secure level streetment	% disposing to controlled system	dispense to controlled system	Quantity of Waste governied (TPD)	Quantity of Waste unlicated (TPB)	Quantity of Wester treated (YPR)	Quantity of Waste processed in Composting Sites (TPD)	Quantity of Wante processed in biometherests on (TPD)
_			-										_		_6[			
472		AGH	18	8400	3154	0	9	17		. 0			- 2	-	- 3	-	6	- 5
47)	E (# 3)	Абдариятия	17	0749	19)7,9	0	-		9	19		- 6		110	- 6	- 0	0	- 6
474	- 11	Alber	23	17590	1700	- 0	0	0		9	D	P	9	1 inn	1/2 ton		0	0
475	8 NO 8	Abbernatada	18	10499	3669	0	0.	0		34		- 0	- 3	- 0	-	_		-
476	0 M 9	Architect	15	6922	1100		0		0		- 6	0		Ston	I ton	- 64	- 4	
471	3. 7	Artoper	17	10005	60	0			-	- 19	-	-	-	4 1001	Har		1100	
478	D D	Arthrappilly	10	3604	965	- V	0	0	4	3	- 0	0.0		Sol entrated	Enjound	0	0	0
479	E B	Avanue	13	E062	JD	25		3		- 1	0	. 0	- 9	-		-	0	- 2
400	8 8	Avinimary	14	6255	323	0	- 9	19	- 1	1	. 0	. 0	1	0	- 0	- 0	0	0
481	8 8	Chather	- 11	7956	7956	100		100	9	-	. 0	.0	-	- 0	- 0		0	0
482		Chelalilare	22	13745	2921	23	0	3	0	- 2		- 0	.0	- 6		- 9		
403	E 5	Charps	21	11176	2136	72	- 9	6	36	- 1	- 2	9	n	nic edivana	not authorized	1666	-	percentage over
454	D 0	Champil	100	30449	3097	- 6	0.	ė.	.0.	1	. 0	. 0	- 0	9.	0	-1	0	0
445	b 9	Chawannut	101	3255	959		n n	6	.0.		. 0	0	. 0	1	0		0	. 0
486	F 9	Desenangslen.	13	7119		. 0	0	6	2	- 5		0				-0	0	-0
487	Ē - S	Edithrung	10	3643	783	- 0	B.	0	.0	-	.0.	0	0	4		-1-	0	- 0
488	9 3	EderWange	14	9469	6560	(00)		0	0		. 0	0	9	0	0	- 0	0	. 9
480	P 9	Stavielly	16	16513	104	. 76	0	30	0		D	0	.0	Line	7.00	. 0	0	- 0
470	D 18	Engondinal	3.6	.7793	15)3	72	0	30	0		1	D	0	no retrunz	ned entimeted	100	Annual Section of the Con-	DISCHOOL STREET
491	B 30	Ernad	23	14585	2704	. 0	0	0	9	. 0	- 0	0	0	-5-	9	0	0	- 0
492	E 9	Enempets	.59:	7430	3921		D.	0	1.	. 6	- 0	-0	0		0	- 1	9	- 9
492 454	D 8	Katuupte	58	8767	2691		- 0	g.	9	D	. 0	0		- 5	. 0	0	0	2
494	D 33	Kedaggeran	16.	4330	901		0	9	1			0	0	-	9		6.	.0
430	6 8	Ketayathe	200	9234	1232	0		0	- 0	- 0	. 0	. 0	0	-	0	- 0	0	- 2
456	B 6	Kelokutty	316	6276	1372	- 2	0	0	.0	. 0	- 0		. 0	- 8			0	-
497	E 6	Kopamangatan.	30	10800	960	30	· · ·	-	0	. 0	.0	. 0	- 0	-	9	- 0	-	-
459	8 8	Keasonin	10.	8409	818	36	0	4	. 0	D	- 2		- 0	no mirand	9	- 0		
450	N 19	Kashrungy	16	1791	1487	-	0	0	0	. 0	- 2	-	- 0	not selected	6.2	9.2	1 1	
500		Kanden	11	8496	129	- 3	9	21	0	. 85	25		- 0	0.2	0	0.	1	
501	-	Estatoriza	Pundonan	\$500	700	de la company	-		- a	. 0	1	-	- 6	0		- V		
-360		1000	1	100	1000	-	7	4	g.	0	17	1	-0	V 5 inti-	6.7 cons	6.T tons	0;5 mm	E
500	6 8	Kedikara	115	(087)	3010	- 29	-	-	- 4	0	- Al	1	-	E .	0	0	0	0
504	1	Kedayany Kolushy	17	11341	mi	- 11	4			0				nor estimated	100	oot antimoni	accentrated	not estimated
506		Kenduts	13.	etre.	W72	- 8	1	-		0.	- 1		9	0	- 0	. 0	0	0
507 508	9	Kairatty	19	10989	610	.0	. 0		. 0	- 0	0	0.	. 0	0		- 0	0.	0
508	F #	Kashu	147	:6510	901	- 4		- 4	. 0	3.	. 0	0	.0	not entireated		2	-	6.
100	k 8	Modeklasher	16.	8860	1167	40	- 4	52	- 3	- 10		0	. 0	2.40, T00k	1.01 TON	1.05 TON	EZSTON	1 TON
510		Mala	20	11936	4446	0	0		- 0		0	0	. 0	0	0	- 75	0	α
501		Mensker	19	9467	2312	100		100	1	190	700	36		9.867000	PERTON:	9,867,004	ER TON	9
312		MATHILAKAM	17	7565	30	-0-		0	- 0		0	0	0	1	0	0		9
513 534		Marather	23	18245	2731	0	- 0	0	0		0	0	0	4.9 con	4.6 pp.	4,0 tox		- 4
She	2	Melger	1.7	6888		- 16	- 0					0		700kg	0	100kg		
515		Medialcomatholaso	14	7093		0.	- 0					0	1	Nuferkannat bukinsi		A		
216		55/Dainty	13.	6733	413	67	0	8	0		. 0	0.		n-002	11-010	- 6	0.	
517		Müllerkkars	60	5927	1593	36	. 0	4.0	0	. 0	6.		. 0	- 0	0.	.0	2	4
558		Mariyad	17	9633	1180	100	1		100			6	8		100			

NO:	MSTRUCT	LOCAL BODY	NO OF WARDS	No. of Hausetobi	Namelold Bill-Bry	% of Meanth-60- 020-Wet	No of establishment	*Deraktishman Der-Dey	M- solublishmens _D2D-Wes	% of touses in which movie Jeval training	Ye of establishment in which source level treatment	% dispusing to neutralized system	dispering to receivable system	Quantity of Weste generated (TPB)	Quentity of Wests collected (TPD)	Quantity of Wester treated (TFB)	Quantity of Weste preferred in Comparing Sine (TPD)	Quantity of Warter processed in Discretionalli on (TPD)
110	_	Nationary	17	10032	1056 -	100	. 0		-	ide	30	100	.M	2000Kg	2000Ka	3000Kg	I HUSSING	500Kg
220		Nurthe	14	6373	2514	64	0	- 0		48.	43	6	- 6	2 test	1 ton	0	0	9
121	1 3	Numerickson	- ):5	6741	1915	32	0			0	0	- 6	. 0	NA	NA.	.0	- 4	NA
田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田		Onunwayor	_12	3635	249	. 0	. 0	0.		0	. 6	8	.6	NA	NA	NA.	NA.	NA
323		Pattyroi	.14	6003	900	. 0	. 0	0.		- 0	. 6	6	- 0	NA	NA.	NA.	NA.	NA.
124		Prosectory	23	1544)	IDi	- 0	- 0	- 0		. 6	. 6		. 0		1.15	Land to		
227		Pariel	_16	1050	1125	. 2	- 0	- 6	8	. 0	0		0	0		. NA.	NA.	205
555		Paralen	- 11	1061	111111	- 6			0.00	0				- Landauer			75,816 1	-339
2554		Paraposian	- 10	87058	1709	99	- 9	31		. 0	- 11			±5Ten	0.57 bn	- 13	- 4	. 0
250	1	Certyanam	.01	5406	8918	- 5		0	. 9	0	0	- 6	. 5	NA	NA.	NA.	NA.	NA:
100	16.0	Partnerson:	13 22	12681	1775	45	-60	- 1	- 2	0.	0	- 4	. 0	NA.	NA.	SA	NA	.010
131		Perinjapan	13	6001	55E	300	-40	100	87	. 6	100		-5	29st, not major	_ Not	Net	NA.	NA.
132		Powmengalain	12	4336	400	- 2	. 6	100		100	100				Non			
110		Portstee	- 12	5471		- 8	0						-	Not entireted	Pier	Per	Not extracted	NA.
554		Payve	13	Medi		- 0	. 0	_		- 6	_	- 8		-				_
133	1	Podebad	-15	3634	565	- 6		- 6	- 11	2	- 0		- 6	Sint exposured	Tier	Not	No.	Maria and America
534	1	Fynnaynerfulam	19	950E.	2940		. 2		0	. 6	0.			324	324	324	Nes retinated	Distribution.
237	1	Pomager	20	1972	2138	9	. 4		.0			8.	. 6	615	6(5	613		
9#1		Punteration	- 35	16701	1197	0			.0		0			115 ten	815	115	0	
120		Puthe	20	(3268	2180	- 4	- 0		. 0			- 7	.0	35	1.10	6.1	0	
340		Acresia/ayacapuran	31	12471	2937	.10		30	0					9.4	0.35	. 0	0	. 6
		Tatlockey	36	5184	-50	29	- 2	100	0		- 5	- 8	1.8	10	36	.55	· a	
142		Thanolaso	18	9782	3100	_11		100	. 0			- 8	- 8	20 tox	26	20	0	
824		Thicking	18	- 272	727			1 121	200					STONDAY	0	MODE	0	
337		Thirtothermate Thomas	17	NA.	76A	-			-	_		-		HARRY ST.	11.		100	
25		Thekine	17	4368 6561	30 IINO	88	0	83	- 0	- 2		.0	. 0		-	20	76	
57		Vednitrical	18	8020	100	0	0	20.	8	80	75	0		9.7	3.2	0.7	- 6	- 5
HE		Velapad								- 0		- 6	- 0	- 1		9	76	- Si
HER L			50	10137	1947		.0	90	.0		300	0	.0	ant enforced	mit colimated	cattypicad	***	10
<b>M</b>		Mellachica.	-11-	1310	676	- 0	. 0				-1-	. 0		0.03	3394	0.04	1	
150		Vallathylingm	# ·	6376	HITT.	107	0	1			9	.0	0	HII ISLINGA	nn aminsted	not entrained	. 10	9
157		Vacandampoity	22	13900	2601	18	7	0	-00		3.	10	0	not estimated	not extinuoud	not extracted	.00	in.
ME		Varavoos	14	9411	811		-0	197				(0)	0.00	en erleami	interferend	not estimated	100	. 19
133		Versespoly	18	1421	rate		- 90	1		0	9	0	9-	me estimand	and estimated	not extended		
354		Videgatur	21	12510	THE .		0	(-0//	0	(0)	. 0	0	. 0	not estimated	not extended	ent		
555		Velaktiara	10.	8560	1766			. 0	ė .		1					constant		
156		Yelur	17	HIE	1439		.0	0	- 1	0	. 0	Ð		no estimand	ear enforced	per.		0
157		Variations I	17													minuted		

NOT YOU

SIL NO:	BISTRICT	LOCAL BOOY	SO OF WANDS	No of Heroschold	Newschold Business	% of Bounfold- B2D-Wer	Ne of establishmen	Nematrial and September 1929-1949	establishment _D25-Way	% of limiter in which source level desiress	% of esiablishment in which source bred fraction	To disposing to centralized system	disposing to servesional agotean	Quantity of Water growated (TPD)	Questily of Waste solisted (TP3);	Quantity of Waste treated (1770)	Queently of Wester processed in Comparing Sites (TPB)	Waste processed to
158		Aug S	21	12799	2613	35		96		54	1	- 0	14					21
110		Akathelmane	19	9500	1892	45.	8	2	0	46	1	0	0	Commercial Control	1500 kg	300 kg/ men	6. 0	- 0
580	7	Abrathe	23	15189	4290	83	0	19	1	12		87.	- 5	2140.14	1400 kg	1400. kg	. 0	0
雷	A	Alathur	06	- 200	U. 11	100							5 37	E-1/10		100000000000000000000000000000000000000	10.	
183	E	Amheleppers	20	12929	1432	87	0	- 0		- 10	29 -	- 10	. 0	S Tire	6 Tim	Transported	0	- 0
567	K	Anakhara	16	7066	1401	70	0	.0		-0	6	- 10	0.	0	.0		. 0	. 0
354	DJ1277	Ananganadi	15	7526	985	30	0	25	0	13	- 18		. 0	. 0	0		- 9	0
164	A	Ayist	17	8327	1269	83	2	0	6	- 0	- 6		- 0	0	. 0	0	. 0	.0
200	10	Chalavara	15	6950	1045	0	0	0		- 6	15	В	0	0.	- 0	0	0	
162		Characty	11	6550	1200	106	0	100	100	15	- 6	.0	0	100	9	. 6	.0	0
540		Deputy	22	11875	2016	70	- 04	A0	42	- 0	0	. 0	0	1100 Kg	1000 Kg	810 Kg	0	0
160	18	Elevander	14	5275	235	0	9	. 0	0		0	0	0	0.15	4.1	0	- 0	.0
125 127 181 181 181 181 183 183 183 183 183 183		Erivace	11	9497	989	0	0	.0	0	0	0	. 0	- 6	0		. 0	. 0	0
STEEL STATE		Entherpoley	34	56E1	362	22.	52	32	- 0	. 0	0	0	. 0	8.85	0.01	11/03	- 0	- 0
122	15 3	Kedengathipuran	18	9877	1239	90	9	45	0	0	.0	0	0		1 1 1 TO	1100/3	5 507	1.5
277	1 3	Kanjmanustra	10	9944	1959	9	0	0	0	-	0	- 6	0	8.63	0.03	0	- 0	. 0
124	1	Recrasi	15	9067	1100	-50	0	18:	0	0	0	0	0	7,11	1.00	W		1
579	0 1	Telanopose	18	7794	44		- 6	0	0	0	1	11	200	Section 1977	DOLLAR COLUMN	THE SECTION ASSESSED.	100	C. C.
575 576 577	0 8	Zeet	16	2930	650	- 45	9	100	0	0	- 0		- 0	0.70 spens	9.65 tone	0.05 cons.	. 0	. 0
200	E3 - 8	Karamtea	16	9902	1759	0	0	9	0	0	0	- 0	0	0.45	0	0	.0	
376		Karakurusi	16	2417	1490		9	101	0	100	1	0	0	0.04	0.01	0.01	- 0-	- 8
170	(i)	Kutshe	- 17	8870	2049	70	0	47	0	9	. 0	0	0		1.00			
179 190 191	00	Parable of the Parabl	18	9833	268	64.	64	100	4	0	7	0	0.	4.5	9.5	0.5		. 0
300		Keringsohn	17	8366	218	1	0	12	0	0	0	- 0	.0	1000	200			100
靈		Eavelony	13	4001	218			9	0	0	- 6	0	0	0.01	0,01	9.03	- 6	. 0
픘	1	healmen	12	13196	2238	69	- 8	67	0	9		- 4	- 0	0.04	0.01	0.04		. 0
級	1 1	Klassification	11	F161	1333	86	54	50	90.	28	4		- 0	7.100000	6 totales	6 tonors	0.2 torones	0
255	9	Koleniu.	18	10181	665	0	0	100	0	-	75		- 6	1.05 toone	1.55 topew	1.05 bonne	205 kg	D
381		Ketteron			1245	0	-	137	349	0	0	0	0	1500	1200	1200	200	0
586 587		Kelestoše	10	1346 1300	1664	100	-	49	0	34	42	100	42	100	500	550	.0	D
188		Keepal	17	1915	3482	100	1	- 61		0		9	- 6	6.05	0.06	0.05	0	0
	-	Keeper	co-itSom	1975	root Hiteory	16		- 41	- 4	- 5	1 1	. 0		0.05	0.66	0.01	0	0
222	-	(Keiser	23	13511	3143	0	-	30	-	.0	9		1 6	0.05	0.05	9.05	0	- 0
地西班里地		Kettosember.	4	9119	1731	0		0	- 2	- 4	- 0	- 6	0	11/11/1	100	10000	17.05	
201	1	Kashipanuara	18	\$572	1767	79			38	0	0		- 0	9	0	. 0	9	- 0
421		Ketitoster	18		1802	31	-	9	60	1	0	- 0	- 0	8.03	0.65	0.03	0	- 0
200		Kerteromedby:	16	6894	824	0		0	- 1	9	0	0	0	0	0	- 0	0	0
-55		Euthenut	17	##22	267	100	- 0	0	100	9	0	0	0	0	D	- 6		
566		Appliaments.	1	1150	- 251	100			100	-	-			1	10000	1		
207		Lobid-Penr	15.	_	-	_	_	_	_	_			_					1
207		Nodempusia	- 13	WAY.	1330	75	0	25	0	- 0	.0	.0	0	0	- 0	-0	0	
588 500		Stockett	16	7125	1320					0	0	0	0		0	0	0	-
100		Manuel	- 11	1925	1300	41	0	19	0		0.45	0	0	-		1	1	
100		bhodsost	.16	11936	2101	50	0	9	0	- 9	0	0	0	9	0	0	.0	
201		(Mother	- 18	7924	676	79	- 6	108	0		0	0	0	-	- 0	0	1 1	0
207	1 3	Miletofe	- 16	7043	0	0	0	16.00	9	- 0	2	- 0		0	2	9	- 5	0
603		Microbat	18	9591	1819	9		0	0	. 0	0		0		- 1	0	- 2	8
601	1	htististamade	38	9704	21.15	- 0	1	.0	0	0	0	- 0	0	0	1-7			100.5
805	100	Mathathala	11	8945	125	100	0	100	0	13	42	. 9	0	339.25	323.11	323.55	200.15	
800 807 603 603 605 605 607		17apalouery	17	9507	590	100		100	- 0	-12	21		- 0	-	-			9
	b .	Nationally.	19	8095	468	100	0	100	- 0	0		. 0	0	0	- 6		6	D
BOL	1.0	Neficus	19.	200597	.0.	-	0			. 0		. 0	_			-		

AL OSTRICT	LOCAL BODY	WARDS	No of Hamelota	% Hamsheld DED-Dey	Vi of Household- (122)-Wei	No of establishment	-BAD-Dep	M mistighmen _pap-Wei	% of house in which some level instructi	exaddistants in	To dispening to controlled apolitics	disposing to controlled system	Questily of Waste generated (199)	Quantity of Waste todiscond (TPD)	Quantity of Waste treated (TPS)	Quantity of Wester prevented in Composting Since (TPD)	Quantity of Waste prostrated in determinants an (TPD)
60%	Nellangada	10	950	97	100	0.	100	0		6	- 1	-0	0	0.	-	- 0	0
#10	Neromine	20	11833	2449	91	0		0	7.	1		- 9	150 KG	172 KH	172	8.	0
431.	Ongellur	23	12111	3163	99	. 0	32	.0	à.	0	- 6	. 9	700 kg	0	- 1		0
#IZ	Padlasseen	36	8433	268	. 03	. 0	12.		4.	- 0	- K	. 0		0	- 8	1 1	. 0
604 614	Prod	2.0	10797	2069	0	. 0	10.	.0	- 0	- 11	0	. 0	. 0	0.	- 1	0.	- 6
614	Paradisir	.10	6082	728	0		- it	- 0	0	- 4	0	- 0	- 6	0	- 8	- 0	. 8
421	Pattanthery	.14	6828	110			- 6	0	0.	0	6	0	- 115	AR.	PIÁ.	46	105
621 628 625	Pattichers :	18	9467	1784	0		0	0	- 4	. 1	- 6			0	- 5		9
623	Personetti	- 14	9900	380	13		67	.0	0.	- 1	- 6	- 6	- 8	- 6	8	0	N N
G(E)	Peningettakaritai	.16	9534		0	- 6					0						
ATT	Paruventia	14	3757	100	- 0		9		0	- 1			500 kg	90kg		6	
620	Pinguini	- 21	15261	1959	0	- 4	0	1	0	0	0	- 8	1400 Kg	- 0			-
621	Populls	13	5390	490	. 0	0	0	1	0		0	- 10	300 kg	- 6	- 8		
621 623 624	Posteniene	- 0	4561	499	0	0	54	- 1	0	- 1	0		NA	NA	NA.	94A	NA.
(023)	Pubukhode	.15	6294	- 6	0	0	0	- 0	- 0	- 1	8		NA.	NA.	NA.	16A	NA
AD4 :	Puthinggerers	13	4348	873	12	- 0	0		g g	-	0		196	MK	NA.	364	264
625	Poduggartyaram	21	12062	21	0	0	0		0	0.	- a	2361	104	- 54.00	- Phys.	240	- 69
625	Polist	-	11002						-			2000					
627.1	Purtureri	21	18894	4002	0	0	9		- 0		- 0	- 6	NA.	NA.	NA.	NA	MA
	Sheliyar	14	1926	225	-0	0	B	- 6	. 0	- 4	6	8		- 199	100	100	- 100
629	Bresticabinguram	14	5280	390	100		100		79			-	539.25	333,55	323.55	200.18	100.5
610.)	Thechargues	-13	5300	958	- 0	11	10	- 5	0	- 0	. 0	6	237.23	551/32	200.00	100/10	100.5
631	Thechanitukara	16	9083	170	100	0	- 0	- 4	0	- 6	0	- 5	111.6	17.2	NA.	NA	- 04
610	Thirty	10	2784	181	3/2	0	- 1	- 6	- 0		8	50	3 9354 com	3.8384 term	3.8354 tops	0	NA.
637	Thurkuru	17	1047	1064	-		- 8	-	0	- 6	8	- 6	2,8355 Cone	- A	0 made took	0	- 5
	Therkunssi	12	8248	820	72	0	54	- 8	- 6	0	. 0	8	0	- 0	-		-
631.	Thirumitaliode	19	\$300	420	- 1	- 0	- 6		0	- 6				- 5	- 6	-1-	
625. 637	Thiravegappure	19	1084	1901	. 0	- 6		8	- 6	0	0	- 5	0	- 5			
637	Thriskaderi	10	6698	279	0	9		- 6			8		. 0	- 5		1	- 9
638	Thrirbain	17	8428	401	- 6	1 1	-	- 6	- 6		0	- 6	\$ total		9		
	Vadskiesquarty	17	1068	W12	20	- 0	10	- 6	3	10	- 0	- 5	A stone	7,6556	Piene	-	0
1004	Veiklingstern	30-		629	-	- 8	20	16	Per	10		-	£1600	0.25	1 things	-0	
10000	Victorional	12	5074	110	- 1	1		8	- 6	0		The second	-	-	STATE OF THE PARTY.	100	DESCRIPTION OF THE PERSON OF T
667	Vallaguarha	16	1121	1547		- 6	8	6	- 8						- 0		
HO HA	Vandezhi	19	1004#	718	90	. 0	26	- 0	70	20			0	0	. 0		-
GAR (	Vanisankulus	- 18	10099	815	- 2		- 20	8			- 5	- 2	0	4	0	- 5	
90	Veffeeshi	10	5147	281	106	- 3	100	0	23	74	- 0	- 2	31009kg	3000kg	3506	- 4	. 0
640.5	Vilvan	13	6953		100		100	. 0	100	100	- 6		840	500	600	850	- 0

NO:	SHISTRICT	LOCAL BOBY	NO OF WARDS	Ne of Historista	Nesschafd N2D-Dry	Mad Heurdeld ROD-Wei	No of ministrations	Nembinkom -B2D-Bey	nanchiberana Billi-Wes	% of house in which source lovel treiment	N of establisheepit in which aware level treatment	Vs disposing to controlled system	Copposing for contradical system	Quantity of Wasts generated (1990)	Quantity of Wests collected (TPD)	Quantity of Wester treated (TPD)	Quantity of Waste grassessed in Correcting Sites (TPD)	Quantity of Waste protected in historic on (TPD)
847	M	Alumbedu	19	11127	300	75	25	-2	0.	0			W	_	-	-	_	NU
648	A	Afgaminho	- 11	11611	1962		0		0	0	0	e.	0	.05	0.08	9.05	.NA	NA
649	6	Amerentelan	19	2841	101	100	0	100	0	.0			- a	0.045	0.045	6.043	0,045	361
650		Arakkayes	13	15424	105	100	0.	100	0	D.	0	- 0	0.	0.05	0.00	8.85	0.01	360
621		Azgatiguram	23	15220	4205	79	29	90	18	50	30	5b	36	0.05	0.01	0.05	0.00	, Mil
681 652		Aretkkode	19	9526	4778		0	0	0	1))	10	0	0		103			
443		Atheografia	12	12143	3512		0.	0	0	18	22	0	0	0.04	0.04	6.25	0.18	NIL.
854		Chaligat	14	6341	267	100	- 0	100	0.	12	10	0	2	0.62	6.02	0.02	0.03	0.00
655		Checkhode	18	7770				-				177	-	0.075	6.03	0.00	0.00	0.01
656		Chilambra.	18	10601	1996	100	0.	- 0	0	10:	1.	-0	0.	0.005	0.005	0.005	6.00	rd .
654 655 656 687		Checkenwoden	19	6540	#20	100	- 4	100	0.	0	0	0.	0	0.005	0.035	9.035	0.00	0.60
658 859 660		Chesokayu.	19	11062	426	100	0.	100	0	0	0	- 0	0	0.045	9,041	sil	ni .	101
159		Chokladu	-18	9284	254		-0.	0.	0	0	0	0.	g.	. 0	0	0	- 8	2
660		Charletons:	20				-		Ti-					0.09	6.01	0.09	0.09	pil
WI.		Eziskiara	36	8675	#85	73.	0	.59	0.		- 25	- 10	1	0.033	0.055	0.055	0.011	0.055
962		Edward	19	9439	2407	100	- 0	36	0	14	1	0	0	0.04	0.06	II.D4	0.04	0.04
161		Directoria.	13	4916	110	12	- 11	100	- 1	27	1	0	0.	0.006	19 (3%)	0.1	2	.0
1104		Education	76	6500	NO.				-	77.		-		- 1	0	0		-0
865		Edeventa	12	TITAL	1906	92		71	- 40	100	- 1	-0-	0	:0.00	0.06	0.06	0.06	0.06
666		Edwyt	15	8700	(79)	29		0	0	7	- 0	-	-	9.7	nti		-	-
667		Elizabatan	15	7919	316	45	0	83	0	45	111	0	0	8,05	0.01	11.04	SI	Mi
608		Establishmen	13	6018	1730	6		o o	0	1	0	0	- 0	1000	- 631		200	
069		Kaladi	16	2529	1964	24		13	0	0	0	0	1	0.13	611	160	162	60
474		Katifons	19	10210	470	0	0	0	0	et.	70	0	0	0.000	.0	0	- 3	a
675		Katankanhuy	15	9541	1364	- 4	0	- 6	0	0	- 1	0	0	0.003	0.031	0.035	- 5	1
672		Karmantangulain	28	10141	2793	30		30	Ü	70	10	0	0	1	11	1.2	0	9.
621		Kanalai	35	5623	220	100	0	100	0		0	0	7	0.05	0.01	E.05	0.01	0:00
07A		Kennanahhuad	21	9961	201	6		9	- 0	_			_	0	- C	0	- 5	- 6
675		Kavanneer	19	9580	-346	4	0	0	0					_		_		
676		Keeshetter	19	838T	1545	. 64		33	0	38	1	.0		0.06	0.5	4.3	- 5	- 4
677		Kendagonathy	14	6058	367		0	-0		- 11	8	0.	- 0	0	.0	0	0	- 2
200		Trafficer		=20090u	and the same	NAME OF TAXABLE PARTY.	Committee of the last of the l	era di	Control Control	missilano			La Company			7.0		
679		Koottiingati	.19	10058	3224	100	- 1	100	0	- 0	0	0	0	0,005	0.035	-0.603	0.031	566.
662		Kurus	32	11105	3813	60	15.	70		.00	.10	- 0	1	0.04	0.04	II De	0.04	- 0
681		Kutigguten	D	17613	3568	65	-0	75	- 5	35	70		0	0.045	0.043	0.045	0.045	- 0
682		Kushinanna	18	9400	342	60	0	80	0.	40	40	0	.0	0.025	0.003	0	- 0	- 1
683		Maticaragariamity	13	5967	706	100	0	100	0	0	. 0	g.	0	0.2	6.5	5.1	0.2	0.003
654		Marchael	19	9950	120		0.	- 3	0	- 10		0	0	0.3	6.3	0.3		D
683		Mangalam	26	7866	7656	100	324	324	100	65	100	- 0	0	0.02	0.02	8.02	0	THE STATE OF THE S
688		Minkeds.	18	9845	200		0	100	0	95	100	o o		0.1	0.1	p.1:	. 0	- 11
687		Marshark	20	7715	340					.46	159	-		9.5	0.1	0.5	0.8	.0
628		Managinery	78	10099	2291	100	6	- 5	100	100	109	-	- 4	3.5	0.3	0.3	0,8	0
ART		Melanur	76	9400	127	60		21	- 100	35	60	-0-	-	0.02	0.02	9.92	0.00	0
694		Moontdyur	D	14430	584	60	- 0	Ab	- 0	10	1	0	0	0.01	0.01	8.03	1	. 0
691		Montkends	19	8453	385	. N.	29.	79	200	0	- 6	- 0		0.15	0.79	300.	0.1	NIL
692		Managur	19	8348	10	10	- 6	100	- 0	1	- 1	60	100	0.15	0.11		0.12	0
693		Mathedan	11	7140	304	100	24	160	- 0	24		0	100	0.1	0.1	0.1	0.01	- 0
624		Mathesiter	19	634T	107	73	23	00	40	99	100	- 2	-	0.5	0.5	0.5	21,3	- 8
695		Numerobia	-21	9300	3000		0	- 0	0	0		- 6	-	6,653	0.002	- 0.5	0	8
#9¢		Nanagarakhu	17	6732	400	48	0	100	0	NB	1	- 0	- 6	0.02	25	- 6	0	

SL NO	DISTRICT	ECCAL GOOV	NO OF WARDS	Ne at Messetional	Mi Meinsteld 020-Dey	No. of Hemotolo- 010-Wat	No of putablishment	-000-0rg	estellationses _020-W-a	N. al'himore ja sekich sourse ferell tretanent	N of establishment in which some level treatment	Ni atoposing to assorable of appless	dispessing as sentrollard system	Quantity of Waste generated (1790)	Quantity of Ween collected (77'0)	Quantity of Woote (moded (TPS)	Quantity of Warm province in Compositing Story (TPD)	
697		Numerather	17	7969	1150	- 6		0		0		- 0	0	8.00		d-	-	
699 100 101	3 )	Ooken	19	7995	25%	11:	0	16	0.	0	0	- 0	.0.	0.075	0.071	-6/025		0
699	ė N	Octobbroad	20	10666	2664	96		100	0	90	96	50	40.	0.000	0.03	d.	0	0
700	8 0	Other	196	7096	252	.36	16	.40		38	60	U	10	0.003	0.01	0.		0
101	E ()	Pathibal :	22	10642	4281	-0	3	30		0		· G	D:	0.00	· G	d.	0	0.
702	114	Pandhist	- 23	11510	402	D.	96	0	0.	0	0	.0	0.	0.1		.0.	- 6	0
702	) 9	Parappai	19	8974	1019	0			0.	Ü.	0	0	.0	- D	4	0	0.	- 0
704	7 23	Perumenes Kleri	10	7333	2123	1	0	.U	0	- 3	1.	0	0	. 0	- 6	. 0	- 6	
200	9 3	Регитрабарри	18	8.627	1047		2	.33		2		. 0	0	.0	a	0	- 0	11
200	) 3	Prometur	10	.9124	30	75	30	.0	0	D	- 30	0	0.	0.05	0.04	. 6	-0	
707	1 9	Potmils:	18	101	1302	0	0	. 0	0	Ti-	. 0			0		6	9	10
319	B 19	Pontneyfam:	10	#852	329	100	100	.40	20	.0	- 2	- 1		0.05	0,65	0.01	- 0	- 6
700 706 706 706 707 708 709 710	5 (1)	Dept.	17	4076	[ANT		0.	- 0	0	-W-	0	0	0	9.1	0.03	0	0	
710	8 9	Firstokalls	17	11421	728	- 6	0	. 0	0	- 1		0	0	0	0	6	0	0
23.1	8 18	Pokettie	19	6785	689	- 1	0	. 0	0	D.	U.	.0		. 0	0	0	- 0	. 6
7/2	) 3	Paremarchial	20	13499	13000	12	10	25	21	2		- 76		9.61	.0	6	1	0
7/1 7/1 7/1 7/1 7/1 7/1 7/1 7/1 7/1 7/1	1 3	Pulikkal	21	10949		3.	n			.0		0		0.00	0.60	0.02	0	0
79#	1 3	Fi/patts:	111	11886	7,187	106	0	100	0	0		0	0.	0.09	0.01	0.00	0.	-11
713	1 1	Bentut	70	W959	1689	100	100	40	0	25	- 0	0		0.015	B.60 E	0.015	1	- 11
715	1	Portist katheri	17	9190	340	100	0	000	0	- 10	29	(00)	100		0	3.5	0	.#:
7),7	5 0	Thulabhadu	10											0.64	0.015	6	0	- 11
7,15	9 9	Thursday	23	19807	1438	199	0	10	. 0	*	0	- 0	0	0.05	0.06	0.00	0	- 0
719	9	Theoreter	18	10047	800	1/90	0	100	0	34	40	- 6		0.16	0.11	0.12	. 0	
220	9 9	Thusbakkode	23	10080		100	0	.03	0	64	0	- 0		1.1	131	0	- 0	
22.t.		Throtopolera	14	99(1)		9	0			69				. 0	0		0	
722	9	Thennala	1.7	1,07	ų.	6.	0.			100		.0				- 100		
723	5 3	Dizunateye	- 21	12052	10021	83	0			. 0				- 5	- 10	. 0	- 0	0
724		Through	16.	7182	36	100	0	- 0	0	92	63	- 6	6			6	- 6	
125		Thrikkeletgode	.23	14003	206								1 - 3 - 3	Contraction of		1000		
719 720 721 722 723 724 725 727 727	9	Thrapprigeds	31	E\$76	1100	1/00	6	40	- 9	65		- #	- 8	6.73	0.63	. 0	0	0
727		Torris	17	6500	220	156	0	106	. 0	45	. 0		- 6	8.35	PERM	- 8		0
	-	Linearing	-	11086	7205	THE REAL PROPERTY.		- 0.00			and the second	-						
22	- 4	Valanannai	19.	2639	2132	100	0	100	- 0	-	0		4	0.025	6.03	NA	5.65	NA.
120		Vellakonny	.01	12999	2715	100	8:	100	- 0	35	25		6	0.35	0	NA.	0.1	38.6
24	3	Verteblishern	19	10307	6955							33.		-27		200	-00.00	0
1/2	- 3	Vastukkod	19	13645	3450									The same of	Kanana Ale	2010000		di di
33	1 1	Vazhasau	17	3407	2216	100		100	- 6	100	199	- 0	0	0,18	0.11	0.14	0	-0
144		Varhickwawo	23	14(4)	2010	0	- 1	- 0	0.	0		0	0	16	11		0	0
25		Vetimesines:	18	R223	2081		-							10000		-2000	76-0	H
26	- 3	Vergare	23	10852		0	0			100				JNA.	NA.	NA:	NA	NA.
47		Vetation	16	77777										.25	20	14	13	15
46		Vettore	20	4513	1892	100		0		0		0	0	- 1000	355	. 0	.0	0
729 730 731 732 734 735 736 737 738 738	- 49	Wantier	23							-		170		Ns.	MA.	NA.	NA	NA.
140		Kaisalasy	10	953t-		100		100		100	100	- 0		0.7	9.5	0.5		- 0

SL NO:	DISTRICT	LOCAL BORY	NO OF WARDS	Ne of Hemetold	Newstoold B2D-Dry	% of Homefisid- thtill-Wet	No of establishment	Mentshistoreni -BZD-Dey	estpélulierant _B2fe-Wer	No. of Decease in which source level instances	th of establishment in which asseze level breatment	his dispusing the controllind system	to entrained against	Quantity of Waste greenand (TPD)	Quantity of Wester pullerand (1770)	Quantity of Waste trusted (TPR)	Quantity of Waste presented in Composting Sites (TPP)	The second section of the second
741	к	Amitosiam	п	400	1179	91	. 0	- 11		33	30	- 31	10	15 kg	Dig	15.ka	- 0	-
742	0 X	Attely	it.	7193	CMSH	31	34	41		- 19		79	WI.	SEKODAY	20 KG/DAY	ADD/DAY	(#)	
743	it	Aponsheri	13	E154	2957	. 11	.8	0:	-0	2015	2%	100	1	LTON	3.70N	1 TON	0.	
766	17	Action	10	7900	361	-63	-0	801	2	186	100	0		ambounder	FDOKarite:	899545tg	- 0	. 6
745	K	Belween.	i.r	9779	1715	107		34	10	96	80	0	. 0	(200 kg/day	1200 kg dky	6200 kg Aleo		
140	30	Childiogram	13	6918	1001	30	18	.39		90	10		9	DEGDAY	20 KG/DAY	(XX) KG/DAY	(4)	
747	*	Clargeon.	19.	-9963	2737	100	0	92	34-	44	- 11	0	- 0	25 Kg/day	25 Kg/ day	25Ka/day		
746	1 2	Chefrenewoller	25	15068	3706	34	0	- 10		34	13	0	. 0	30 kg/dw	20 kg/liter	22 Kardsy		1
749	36	Chekkind	13	6544	1822		0	1	D	1	g g	0	- 0	S tow	7.000	0	- 8	
750	3	Chellimyt	21	13483	2230	- 8	70	4			9.	8	- 0	26kg/ds:	309g/dy	100	- 4	
751	E 11	Cheminandrary	20	11111	3090	3	.0	0	D			0	- 0	1589	TARROUNDERLY	HANGUAN	- 0	
752		Chergotukara:	17	8990	350	1001	- 0	310	-0	53	\$17	0	. 0	3 TPD	5		0	
7/3 7/3 7/3 7/3 7/3 7/3 7/3 7/3 7/3 7/3	E 3	Cheurateur	116	6772	1463	50		- 0	(0)	10	0	0	. 0	47	4T	.0	- 0	4
754	1 3	Charrade	2.1	iptre.	\$60	30	1			TY.	1	6	0		4	0	- 4	
753	L 33	Eductory	17	1936	5(4	100	. 0	19%	- 9	19.	146	.0	. 0	5 me	5100	.0	0	
7,56	9 4	Eramids	19:	9437	2001	79	. 20	100		81	120	0	.0	290 kg	240kg	0.	2404	
757	1 6	Kadylundy	11	00743	2833	74	0	- 45	0	42	п	9		10 YOUNG	19 YONE	-0:	- 0	- 6
758		Colonia	33	12913	2431	100	- 0	41		- 31	- 4	.0		0.15 TOME	2.25 TONE	- 0.	- 0	- 0
7.59	B 16	Eather	13	1999	1161	-76	- 6	- 61	T	1	0	0	- 9	720	126.60	- 0.	120KG	
760	5 0	Kennery	10	9968	2001	59	- 0	100	Y	- 1	0	0	- 0	9,1	0.1	- 6	0.	
761	8 8	Kuttgara	13	1665	2004	0	- 0	- 1	. 0	- 3		0	- 0	110ig	145.00G	- 9	- 0	0
767	E #	Keyfurnpara	10.	7473	2028	67	-0	51	3	100	- 46	- 67	-0	0.21 Ton/Day		. 0	9.	0
763	5 0	Kayshkody	18.	8140	1351	.79	0	47	- 31	155	101	g .	- 8 -	199KGDAY	DRIKGIDAY	. 0	0	
764 7W1	E 1	Karates	13	4410	624	- 71	. 0	100	.0	196	100	9	. 0	- 65	81	- 8	0	- 0
765	5 5	Kenhutsur	1)	8539	y90	9	0	0	0		6	0	- 0	0.05	0.19	0	0	0
766	8 6	Kinhtkhorh	18	0143	3773	-86	0	57	0	NS.	10.	0	. 0	10.9cm	10574	- 6	0	0
767	8 19	Redundery	21	10548	315	38	0	100	0	10	100	0	0	10 KG/by	20 KG	-	- 0	0
768	-	finfortheir	16	030	67(8)	350	and the second of the second	THE RESERVE OF THE PARTY OF THE			190		- 4	210kg	0.7330		-	- 1
780		SALES AND STREET, SALES	-11	1000	and the same	andiene.	- Maryerson	Contract of the Contract of th				- 4		0.3 sos/day	inn/day		6	- R
779	F 8	Koomshout	- 13	1993	1769	40	0	0	.0	-70	60	0:	- 0	339	300	-8-	0	9
771	8 8	Kijettivli	0	37)7	412	18	0	9.	0	0	0	0	. 0	200	150	-2-	0	9
777	B 3	Keess	11.	7830	1050	70	31	43	33	100	100		D	(Illikg/day	100kg/fee		5	9
773	8 6	Reveniencement	23	13434	QQS	9	. 0		0	100	100	9	. 0	650 kmMay	423 kattley	777777	-	9
774	8 1	Konoretal.	13	5668	2124	106		100		500	100	- 5	.0	int Kg/Dep		140 Kg/ Des	1	0
775 776 777		Konportue	18	11425	2015	0	. 0	300	45	.80	CI.	. 0	- 0	#00 Kerthey	400 Kg/Day	400 Kg/Dar		g.
776	5 3	Kunindy	16	6063	491	49	. 0	190	0	100	150	. 0	. 0	170 kg/Day		155 Karlbox		
777	8	Minhayour	17-	T)26	1383	100	0	29.	0	12	1		70.	200	230	230		- 0
778 779	3	Medpe	31_	12421	1412	35	9	445	0	3.				2.5	Ligat Cataonia	1		- 0
779	3	Masshotkers	14	8762	601	100	0	68	- 0	(41)	- 11		3	130K 0./0m		this has Dec	-	9
742 761		Mesos	18.	9007	1190	65	-0	60		- 11	12	0	- 3	122 Kg / Day		100	0.	
781	1	Micpejur	- 17	2308	1840		- 0	100		86	100		- 8	0.1	0.18	0:18	- 0	
762	1 2	Mondati	18	#394	2384	100	. 6	100		92	100	- 0.	. 0	126 T	J.H.T.	130 T	-57	4
783	1	Madepurare	22	11000	1960		- 2	*		100	100		8	5.3 son per- day	4.0 ton per day	0		
254		Medusynor.	16	7950	2090	- 80	8	80	- 0		33			8.50 100	2.50 tos	- 6	9	0

1.58.69



SL NO	nestasc	T LOCAL BODY	NO OF WARDS	Pio sel Historicalid	No. Hyperchald 020-Dry	No of Hospitals D2D-Wes	Ne of establishment	Nenistidihermi .ib20-Dey	entsidudament "fizīb-Wes	Vs. of because in which assume fevel restauras	54 of establishment in whick source in al irealment	% disposing to controlled system	disposing to controlleral system	Quantity of Waste generated (TPO)	Quantity of Waste milested (TPD)	Quantity of Wests treated (TPD)	Quantity of Wasts processed in Competing Sites (TPD)	Wester processed in
781		Playrints	17	8780	1193	100	- 4	100	- 1	100	100	D	- 0	HOY	NOT	0	- 0	- 00
7,84		Pierfebani	100	8302	2009	.0		217	- 0	73	10	0	0	-	NOT	NOT	nor	-
182		Placippatia	17	7929	1236	36	1	- 28	0	10	190	0		HOY HOY	NOT			NOT
788		Norbal	17	10000	¥30.	40	- 0	29	0	12	70	0	0	NAME AND ADDRESS OF THE OWNER, NA		NOT	NOT	NOT
289		Olevente	B	(853)	6566	. 0	0	0	9	15	65	- 0	-	Not research?	341246	5413 kg	NA.	
195		Organiery	IV.	10017	3511	37	0	. 0	- 1	83	79	- 6	- 6	Not massured	13 TON	2.5 TON	Descriptions of the same of th	Nis messores
T\$1.		Onchiyum.	17	3945	2176	100	0	- 19	0	70	26	0	- 0	2.7	2.1	0	- 0	- 7
姓		Pananged .	20	1016	1909	- 63	U U	73	0	93	16	6	- 8	Not measured	2.5 ms	3.3 cm	0	- 1
750	1	Proxestos	- 19	1040	1439	95	- 8	. 62		85	48	6	2	ment introduced.	4.5	4.5	0	- 1
764		Portureanna	18	11633	1012	92	. 0	14	. 0	80	0	0	. 2	0,90 ton	8.90 can	8:90 san	- 0	- 1
781	l	Prosevegal	22	15467	13.18	100	. 0	100	0	100	100	D.		3 ton	5 ton	5-100	0	
胜		Personed	17	E256	TMB.	24	0	401	D	1.06	100	. 0	- 3	9.20/0.16 ted.		. 0.		
167		Pothaggady	21	14588	3269	118	8	300	0.	130	- 6	0		5.100	5300	0	0	. 1
758		Theutselether	- (7	1978	(120	75	. 8	- 0	.0	71	1	0	- 4	Aspe	4 ton	. 0	0	. 5
1000		Thorogrammy	10	9750	1A32		- 0	54	84			. 0	3	8.74	5.74	5.74	- D	- 3
IDE -		Thikkedi	17	9561	(826	1	- 8		0		- 0	0	1	5 ton	5 500	Links	- 0	- 9
602		Thinestar	20	9493	2793	150	0	- 4	0	. 0	. 0	. 0	. 8	13	14		- 0	- 10
801		Thinwantudy Thurwant	13	1940	1118	100	0	100	0	18	34	. 0	- 9	5.5	3.8	3.8	0	. 0
B24		Tunni	15	7067	1377	- 5	0	- 0	- 6	- 1	0	- 0	65	9.7	0.18	9.18	- 6	
(0E)	1	Utiyer	19	1958	3363	- 8	0	286	0	300	44	40	0	747 5101 M3	747.5161.4EE	347 5161	B	
106		L/mrku/am	23	13779	3355	d	0	100	0	100	100	9	9	200 ton	200.16tm	- 0	0	-
M07		Valuan	14	4485	997	56	0	- 10	- 0	500	30	D	- 8	6.05	6.54	0.85	- 0	-
DOB 2		Vaccinal	1.6		2035	100	D	- 10	- 5	100	100	- 10	- 0	13-94	15kg	15 kg	0	
lov.	Į.	Velori	127	6754	2936	100	D	100		100	100	D.	- 2	130	jes	tek		
ija (		Viliagneti	19	1162	3493	60	0	#0	- 0	100	45			8.2	- 5	- 3	. 0	
ELL)	16	Aphalamasi.	20	10291	4579	33	- 8						. 5	4tone	3 Den	Jone	MI	
112		Syleyske	- 10	9519	764	- 15	. 0	80			. 0	.0	.0	4 some	5 tone	2.000	3.tons	166
(D)	*	Kanyardama	18	11791	2207	24		18			0	. 0		I team	& tone	2 Note:	3.tohe	- 60
100		Kenshara Menargadi	13	9979 3293	548 637	87		100	- 0	106	308		- 8	NA.	NA.	N/A	HA	788
SIA.	_	Meuss	19	6735	1000	100	. 0	100	-	100	100	-	- 0	-	-		12	-
117	B	Mislaskety	22	10510	815	100	-	100	-	36	76		.6	MA			NA.	200
iiii	17/2	Museumely	18	6156	952	10.00				0	- 5	-	0	1.2.mer	1.2 mos	0		0
COP-		Middl.	19.	7667	3.75	199		100	- 0	100	100	. 0	0	5 turns	2.5 tores	3.5 tones	3-1996e	- 0
Q#		Mesteri	10	10002	680	100	- q-	100	.0	100	100		0	10 inya	7 tone	7 thnes	0	-
(21)		Neelpusta	23	14753	703	38	g.	100	100	100	500			4 Tone	3 Tone	J.Tsee	3 York	- 0
02		Pedichershers	IA:	6524	472	100	.0	100	0	13	38	7	1000		LAST TONE	9	. 0	
92		Panamaram	16	7246	347	85	13	49	. 0	D	. 0	- 10	. 0	The Control	ALTO CASE OF			
124		Postbadi	23	15742	400	100	:0	46	. 0	. 0	- 0	- 0	. 0	0.06	0.05	18.305	. 0	-3
01		Controllers.	11	5763	2004	38	.0.		0.	106	100	- 9	. 0	3 to 4	I tone			ILS care
127		Philopalli	13	10437	3197	30	. 0	13	- 0	- 0		- 6	0	1	1	2:	1	.0
Cit		Thurisda Thurisdal	12	3571	360	25	. 0	100	0	- 0	- 4			266	JiA.	NA	MA	NA.
129		ThiruseDy	17	8520	1409	25	0	0	- 0	100	100		11.5		1	NB.	391	NII.
196		Thonderhadu	15	5987	1320	42	0	30	0			- 0	- 0	-				
		Volleguards	21	11620	1439	7	0			. 0	. 0	- 1	_ 0	2Tene	2Tone	M	.161	NE
B)		Yempappali.	13	2730	195	09	9	100	- 0	- 8	-	-	. 0	33	. 1	- 1	301	Mil
01		Verbin	14	8086	1582	100	0	100	- 0	0	- 100	. 9	0	1.5	1.5			
134	N.	Alakoda	21	2600	PINE	100	0	100	-	100	100	108	100	50 kg	50 kg	303g	25 kg	- 0

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SL NO:	DESTRICT	LOCAL ROBY	NO OF WARDS	No of Hessebald	Hemetold B2D-Dry	% of Howanote- B20-Wes	No of extatilihment	-bate-this	nstantilbream B2D-Wes	The of Bennes Se which sever level tretained	% of establishment in which necess layer breakment	To dispessing to controlled system	disposing to controlled system	Quantity of Waste prosessed (TPD)	Quartity of Waste selected (TEN)	Quantity of Want treated (TPB)	Quantity of Wests presented in Compositing Sites (TPD)	Wante precessed in
933		Asjections	19	8471	709	100		100	- 1	120	106	-	-	130	0.04505	1.30		-
976	- 14	Attiven	17	8215	289	100	- 1	100		100	166			1.88	0.63244	1.00		- 6
976 977	W =	Aygielnome	16	T548		100	- 2	100	18	130	100	0		1.54	0.00457	1.54		
97e	×	Azhihode	20	13406	160	100		100	- 0	100	100		- 4	1.73	0.04629	273		4
979	10.0	Chappanappadava	19	16295	210	100		100	.0.	100	300	- 6		2.00	0.04264	100		- 6
540		Cheekilode	10	8700	361	100	. 4	100	- 4	100	100			-0.77	0.03226	1.27		. 0
341	E 3	Changalai	18	10216	376	100	1	100		130	100		1.00	3.86	0.04931	1,89		
840	B 8	Chmikansa	13	4506	550	100		100		520	188			445	0.00346	0.45		. 0
843		Cherigraphs:	10	8038		100		188	- 1	100	100		- 2	1.65	0.04071	1.85		- 6
944		Constitution	17	12000	826	100		100	- 0	136	100			133	0.04269	1.22		4
845		Chinklai	23	14173		100	3	Im	- 8	136	300		- 2	190	5,550	294		
846		Chitterpeounts	19	7131	370	100	3	-10	- //	136	386		- 1	146	9,957.8	1.48	-	- 5
947 948		Chakii	17	A343		100	- 1	356	-	156	188	8.	- 1	1,74	0.04109	1.76		- 6
51E		Chareadure Storough-Kurner	10	TO15	874	100	- 1	100	2	100	100		-	2.24	0.04178	234		
540 550		Erachen	10	8224	462	100	1	300	- 8	100	100	- 6	-1-	1.46	0.0364	1.84		
55)		Enureasi	14	100	100	300	-	200	W	106	100	- 1	- 1	1.00	0.02243			
853		Exhan	16	4267	472	100	1	300	0	100	186	-		1.00	0.02016	9.48		
003		bikkoor	12	3656	700	380	- 16	100	0	100			- 1	0.71	0.02363	0.78		- 6
254		Kadembook	12	4525	#50	100	- 2	200	0	106	120		1	0.63	0,02254	0.69		- 6
777		Kahengaly		- 1000		405								-3452	2000			
833	6 6	Pungpustia	900	1591	567	100	- 0	100		100	100		- 1	129	0,9407	1.74		
856	1	Kadnus	10	7934	94	100	0	200	- 10	100	100		1	1.82	0.03161	1.52		
857		Kahisuseri	10	1670	950	100	- 0	290	- 0	100	300			3.11	0.19394	3.71		
858		Kanuba	32	3004	276	100	0	388	- 1	100	700			7,525	0.01954	1.02		
633	3	Karini-																
4.00		Napodente	34	3778	300	100	- T	400	- 10	309	200		- 1	338	0.04429	244		
860		Keenguran	14	8214	166	386		300		100	.100		. 9	2.81	6,30778	1.00		
863		Kartylloor-Perlant	56	8629	810	300	.0	300	- 18	300	300			6.43	1.0003	4.33		
862		Kelanen	1/2		514	300	0.	100	00	110	100	1	- 4	1,1	0.00482	1,7		
665	E	Kendulat	54	6266	616	100	- 0	100		100	100	1	- 1	201,61	5,3696	7.41		- 4
	-	Reserved.	nest/one	-	minus 201			200-	-0	101	100	-	-	1,82	176546	1.12		
865 866		Kelmad	16	150	465	386	. 0	300		300	100		- 1	3.51		3.11		
900		Kontell.	- 18	1625	512	)100	. 0	100	.0	100	100		- 1	1.79	0.03100	1.76		
868	5	Kosuvan	14	4723	1400	300	.0	300	.0	100	3100		- 1	0.44	0.03987	0.88		- 6
160		Kirthyper	34	1295	810 M07	100	0	100	0	100	10	-	- 1	1.50	0.02401	1.00		0
847 870		Kuntenangalan Kunnotiparanita	21	71494	100	100	0	100	0	100	100			302.63	0.0399	451		0
871		Kyromathour	17	11252	816	300	0	100	D	100	100	1		2.1	0.05344	13		
KT2	1	Konienic	58	8366	3131	300	0	100	0	100	100	-	- 1	134	0.05851	121		0
873	2 3	Madayi	28	8574	525	100	0	300	0	100	100			1.00	0.04378	1.86		
¥74		Malapatient	13	3607	100	300	- 4	300		LDH .	100	4		9,93	6.court	0.60		1.0
675		Malant	16	8214	426	100	-	300	0	100	160			1.62	0.00256	1.0		- 0
874		Magandan	18	10634	650	360	- 4	3.00	-	100	MW			4.17	0.03924	19		9
677		Matical	10:	8039	356	100	. 0	300	0	100	100		- 0	123	0.65871	129		4
578		Mayye	310	2043	PAB	200	- 4	100	0	100	100		. 0	1.97	0.04009	1.97		4
173		Moken	14	3791	440	100		300	4	129	Lon	- 6		5,68		3,0		4
988	6 8	Model	20	8979	380	386	- 1	zim.	- 4	200	100			1.00	9,6909	1,6		-
181		Mutukkome	15	1412	1284	300		166	9	399	106			(,0)	0.04696	1.69		- 1
192		Madagaflanged	11	3509	230	100	15	101	0.	200	106	6		121	0.00198			

SL KO:	DISTRICT	LOCAL BODY	MO OF WARDS	No of Household	Nounchatd DID-Dry	N of Hemorodd BED-Wet	Pro of sois Utstennes	-DID-Dry	entshiphenest _B2D-Wer	th of bosons in which course level tretment	No of entablishment in which source level translated	Ne dispessing to controlled aparent	disposing to controller crottes	Quantity of Waster generated (TFD)	Quartily of Wasts collected (TPD)	Quantity of Waite instead (TPIs)	Quantity of Waste provented in Computing Sizes (TFD)	Waste percented in biometranali
683	2 3	Nedovii.	10	8800	280	100	6	100	9	300	300	. 0		1.6	6.01722	5.8	-	-
684		Newson	.17	7621	2107	100	Ď.	100	g .	300	100	.0	- 8	1,50		1.59		0
185	8 3	New Maki	13	3417	450	100	D.	100	g	319	100	.0:	- 4	3,45	0.00258	8.91	- 0	0
185	1	Patiyoor	15	6400	190	100		100	· a	300	100	0	0	1.3	1-01222	1.3		9
MI.		Extension	. 15	6692	70	3.06	- X	100	. 0	399	400	0		1.37	0.72998	1.37		
魌		Pappinister	.30	10560	680	100	9	100	0	300	100			2,57	3,05247	267		0
燃		Parisman	19	11079	110	100		366	- 0	350	100	- 8		2,47	5,05232	2.47		D D
890 891		Patrien	13	0152	540	100	- 6	200	- 6	390	100	- 1		1.07	2.0081	1.67		0
192		Patiorem	38	1962	227 470	\$60	-	350		100	100			0.81	9,01817	9.81		0
193		Faguster	ie	1000	496	300	- 1	300	0.0	100	100			1.57	0.02591	1.52		0
##4 ##4		Persiaseri	28	3930	403	100	-	300	- 6	350	100	- 1		138	0.00981	337		0
101		Persyon	ā#	-8600	100	100	-	350		199	100		-	1.86	0.03302	1.36		0
196	1	Paringone- Vayskians	20.	1072	250	259	721	309		500	100			833	5,027	8.50	1 22 1	-
191		Promis.	19	regree	001	200		300		300	100			2.06	0,04737	1.06		- 5
598		Ramarchall	19	9360	900	100		200		300	100	9	n n	2.15	0.04538	2.1		
199		Dellastosi	LE	4534	401	39.		200		100	300	y .	a	1,43	0.00000	1.43		0.
100		Thripassignitions	18	9070	301	300		300		500	100	ii ii	n	1.85	0.53218	1.65		
101		Udanapri	15	4331	254	300	4	100		100	300	9	ė.	1.27	0/807YA	1.27		
160		United	28	17954	238	300		100		100	300	9	a.	2.79	0.39470	126		
993	E 3	Valapaitanam	15	1956	3,554	100		300	4	100	100	9.	0	9.36	0.60991	135		
954		Vergad	71	12883	936	100	6	300		100	300	. 0	a	9.59	0.05244	3.50		0
205.		Asarur	23	18571	10573	- 88	0	790	80	0	70:	60:	0	0.04	9.94	9.04	0	0:
106		Hefiadka	19	17167	9654	75	0	570	40	0	0.5	45.		1227311	(CEST)		10000	357
107-		Halal	16	6585	4585	- 11	0	260	350	0	100	17	0	0.85		AIL	0.85	
HOS	n 1	Bededita	17	8826	6300	:10		633	100	0	RG.	16	0	8.2523	8.023	Spel	0.023	81
577		Helioot	13	3424	2893	80		125	100	0	79	NO.	0.	0.0625	8:0625			
910		Chennal	23	15169	9169	- 60	6	436	76	0	1	45	n n	£20,000	0.154		0.	0
711	0	Openio.	23	18725	5368	29		1841	-10	0	98	85	0		d. A. steated at	- 0	0	0
111		Delumpath	196	3274	5274	100			- 24		- 16	AL	-	0.24	0.195	0.195	- 2	- Ann
714		East Sled	16	\$295	7395	85	- 1	453	10	0	90	79. 52.	0	8.004	8.604	0.906	nl.	-68
915		Entuksis	17	5535	4575	92		140	40	0	26	25	0	- 48	- 68	- 10	4	68
ote.		Kater	14	7013	6013	86		92	90	0	60	60	0.	ROIN	0.0133	0.0131	0	- 6
015		Katadka.	- 13	6183	5183	84		1324	70	0	60	85	0	0.012	9	0	-	
91.6	1 1	Keston Belor	- 19	K163	#163	75		630	45	0	36	79	0.					-
918	20 1	Kappu Chemen	16	9336	8356	81		636	85	0	84	90	0.	0	0	0.0	- 0	-
120)		Kanenor Kanedulan	17	50,48	7445	11		400	300	0	100	100		tto	100	100		
qi.	1	Kumbini	13	4655	2005	- 44	. 0.	100	199	0	89	95	- 0	0	- 0	.0	0	
123 123		Kueshele	23	12355	X500	69	- 4	345	- 54		54	35	-	- 1	-	- 4	- 4	-
923		Kuttkol	15	2230	5430	75	9	450	70		60	44	. 0	0	8	0	0	0.
104 1025		Midhar	25	1279)	1)293	100		411	.52		56	16	- 0		0.5	0	D	0
132		Madikai	15	6131	6331	100	- 4	217	100	- 1	100	100	0	0.7	67	0	- 0	0
126		Magalouty	23	12030	9500	62	2	2500	- 40		32	40	0		-			-
27		Marjahwa	21	11500	5060	.51	- 4	399	45		46	-0.			100			
酰		Mencia	1.5	7.00	7)13	100		166	54		68	73		0.7	0	. 0	0.7	0
929	- 1	Mogral Pullyr	15	7001	6011	86		500		0	78	88	0	0.2	0	0	D-	0



NO:	DISTRICT	LOCAL BODY	NO OF WARRS	No of Resorted	Nementalif SOO-Org	Wolf Household 30B-Wei	Ne of artifolishmend	Mestablishment -BID-Bry	% szistbibanni _100-Wei	the of theorem in settlets more: Ironi destronici	N of establishment in which course food transvent	% disposing to contrational operation	Til Gopening to contrained system	Quantity of Water generated (TPD)	Quantity of Wasse suffered (TFO)	Quantity of Waste mound (TPD)	Water present in	hismethoani
610		Malass	Y0:	7522	6523	- 07	- 4	207	70		- 11	94		0.1				
931 932		Pades.	13	6400	4400	- 69	- 9	120	45		67	17	. 6	9.3	- 0	. 6	0.2	1
903	19	Provide	19	H799	5700	59	- 0	260	42	- 6	- 0	71	. 0	0.3	0.2	0.2	0.2	
913		Patitions	23	131077	12377	82	. 0	544	90		34	96	- 4	9.45	0.19	6.12	. 0	- 8
894		Tenathety	16	7426	6426	37	- 10	361	95		10	10	0	0.73	.0	- 15		8.
922	. 0	Micody	16	6842	5917	17	.0	473	34		90	84		9.42				7.77
106	- 21	Pallet Pertin	17.	10644	2644	91	- 4	500	900		10	99	. 0	0.58	0.50	0.52		
937	- 11	Plathion	14	7079	5074	72	- 4	20%1	50	- 0	41	50	.0	1.09	5.09	1:09		
108		Titkerinat .	2)	11333	\$700	74		746	60		42	53		0.125	0.125			55.31
909	1 0	Udnis	21.	13332	9633	- 65		517	550	0	. 54	. 54.	. 0	0.13	0.13	6.15	. 6.	. 0
940.1		Vallysparants:	1)	M861	4800	10	- 0	100	900	3	54	70	.0	0.16	0.15	0.18	- 6	- 0
811 894 991 906 907 698 928 940 941		Vactority	10.	6934	4800		- 4	500	40		13	94	.0	0.56	0.16	0	. 0	0.
942:		Wast Elevi	18	6974	5474	-74	- 3	200	. 70	0	1.60	67	- 0	3:75	0.75	0.72	8.62	NI

#### **ANNEXURE III**



Telephone, 0471-2303644 e-mail: kspcbdotvm@yahoo.com

### KERALA STATE POLLUTION CONTROL BOARD



DISTRICT CHEPICE, THURUVANANTHAPURAM BY MONOTON, BY BENDONE ALLES

T. C. 1236 (4.4) PLANCED DE DE PATTON PENTHULVANANTHAPPRAM - 603 (64) SOUTH 6/40 (4.8) graph montrette open dies, effectionemagne - 200 (64)

#### ANALYSIS REPORT

No: 202176:

Date: 03/07/2020

Source	-	Dumpsite of Attingal N	Auncipatity (L	eachite San	nple)
Sample received fro	an:	TAI	Date of s		24/06/2020
Date of Rece	ipt	26/04/2020	Ref. 8	lo.	R14
SL No.		Parameter	Unit	Value	Permissible Line
Ä		pH		6.8	6585
2		Suspended Solids	mg/L	67.8	100
3		COD	mg/L	40	250
4.		BOD	mg/L	27	.30
5	1	otal Dissolved Solids	mg/1.	135(a)	
6		Chloride	mg/L	15	
Signature: .		THE THE	for.	As	
Remarks:			Moch	17/2020	X.
Scientist-in-Ch	water	of Analysis	AS	SISTANT S	CIENTIST .



#### **ANNEXURE III**

Telephone: 0471-2305844 e.mail: kspcbdotvm/syahoo.com

## KERALA STATE POLLUTION CONTROL BOARD



DISTRICT OFFICE THURLYANANTHAPLIRAM

T. C. TERROLASS, PLANSFORDERS, PATTERIERO THEROVANIANTERPERANT RESOURCE SERVICES AND MAJOR MAJOR SERVICES AND MAJOR SERVICES.

#### ANALYSIS REPORT

No: 202175

Date: 03/07/2020

Source	345° +	Dumpsite of Varkala M	uncipality (Bi	ore Well Sa	mple)
Samp		TAI	Date of se	NAME OF TAXABLE PARTY.	24/06/2020
Date of R	eccipt	26/04/2020	Ref. N	o.	R1)
SL No.		Parameter	Unit	Value	Permissible Lion
1		pH *	世大	5.4	6.5-8.5
2		Suspended Solids	mg/L-	52.2	100
3		COD	mg/L	36	250
4		BOD	mg/L	- 6	3.01
5	1	otal Dissolved Solids	mg/L	96.1	
6:		Conductivity	S/m	92	
Signature			P	or As a	
Remarks:				3 7 202	0
Scientist-ir	n-Charge	of Analysis	AS	SISTANTS	CIENTIST

#### **ANNEXURE III**



#### KERALA STATE POLLUTION CONTROL BOARD CENTRAL LABORATORY

കേരള സംസ്ഥാന മലിനികണെ നിയുത്തെ ബോർഡ് ചെർത്തിക്കുന്നുന്നു



#### **ANALYSIS REPORT**

Analysis Report No.	PC8/CL/1446/20-21	Date   22 Apr 2021	Doc No. PCB/CL/CHT-7
Ref.No.	PCB/RO dated 08:03:2021	Date Of Collection	93 MW 2021
Received From	R O ERNAKULAM	Date Of Receipt	03 Mar 2021
No. Of Sample	T A	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	31. playto pan
Sample preservation	As per APHA/ IS: 3025(Part-1)	Type of test	CHEMICAL
Sampling Point	Leachate drain		

Sample ID : BLD-GEN

SI.No	Parameters	Unit	Value	Test Method	Detection Limit
1	pH	1	7.6	APHA, 4500- H+B 4-95 to 4- 99, 23rdEdition, 2017	1
2	Chloride	.hgm	4573.0	APHA, 4500- Cl /B, 4-75 to 4-76, 23-rd Edition, 2017	1 must
3	Fisioride	mgrL	0.06	APHA, 4500- F.C. 4-89 to 4-90 23rd Edition (fon Selective Electrode Mathod) 2017	D.T. respi
4	Solphate	mg/t	1014:0	APHA, 4500-SO(2-E, 4-199 to 4-200, 23 to Epition, 2017	1-mg/L
5	Bulphide	mg/L	MR.6	APHA, 4500 S2 F 4-187 23xt Edition: 2017	-1 mgs.
E	Nitrate as Nitrogen	mg&	61.96	APHA, 4500 NO3 (B.4-127 ) 23 rd Estion (Litravinist Spectrophistomotric Method) 2017	0.05 mu
7:	Phosphuse	mg/L	58.9	APHA, 4500- P. E. 4-164 to 4-165 ,23 rd Edition 2017	a timps

GANDHI NAGAR, KOCHI - 682 020

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Page 1 of 2



8 Magnesium	mg/L	89.1	APHA, 3500-14g E 386 23rd Edition 2017	0.7 #git
9 Biochemical Oxygen Demand (BOD)	mg/L	4269.0	IS 3025 (Part 44) 1993	0.1996
10 Phenolic compounds	.mg/l	1.14	APHA SSS0-0.22nd Edition	0.001me
Checked on the symbol set signatory of the symple subtiten permission of the symbol set signatory of the			Another control to a	NOT TON

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#### KERALA STATE POLLUTION CONTROL BOARD CENTRAL LABORATORY

കേരള സംസ്ഥാന മലിനീകതണ നിയത്രണ ബോർഡ് കേരു പരീക്ഷണശാല



#### 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	Billian	Period Of Analysis	03 Mar 2021 - 24 Mar 2021
Source	Brohmaporam 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

SINo	Parameters	Unit	Value	Test Method	Detection
1	Total Coliform	cfu/100mi	2400	ADM 2000 B 01-41-40-40	Limit
-	Haras Someonin	Characteria	2400	APHA 9222 B, 23rd Ed 2017	Tefa/100

- End of Report -

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

GANDHI NAGAR, KOCHI - 682 020

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Page 1 of 1



# 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	$\mathbf{p}^{\mathbf{H}}$	· · · )	6.8	APHA, 4500-H+B,4-95 to 4-99, 23 <sup>rd</sup> 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 <sup>rd</sup> Ed.,2017			
4	COD	mg/l	448	APHA, 5520-B, 23 <sup>nd</sup> Ed			
5	Nitrate as Nitrogen	mg/l	7.4	APHA,4500NO3-,B,4-127,23 <sup>rd</sup> Edition (Ultraviolet Spectrophotometric Method) 2017			
6	Phosphates	mg/l	36.67	APHA,4500P,E,4-164 to 4-165, 23 <sup>rd</sup> Edition:2017			
7	Sulphates	mg/l	63.1	APHA, 4500-SO4 2-E, 23 <sup>rd</sup> 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 <sup>rd</sup> Ed., 2017			
10	Total Coliform	CFU/100ml	620000	APHA 9222 B, 23 <sup>rd</sup> Ed.2017			

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

COCHIN-20

Board Analyst

P. G.E.T. Ing.
Environmental Specifical
Central Laboratory
In State Four Control Box
Goodh: Nagari 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.,

Thiruvanathapuram – 695 004.

Copy to:

The Chief Environmental Engineer,

		7	WASTE TO ENERGY	PLANT
Sl. No.	Waste to Energy plant	Land Identified	Procured	Status
1	Kozhikode Njaliyanpara mbu	Kozhikode corporatio n	(Govt.land)12.67acre at Njaliyanparambu	Work awarded to Zonta Infratech Private Limited forthe construction of Waste to Energy Plant. Consent to establish was issued
2	K annur Chelora	Kannur Corporati on	(Govt.Land) 9.7 acres atChelora	WtE plant is proposed in 9.7 acres of land after clearing the legacy waste. The legacy waste which was ought to have started clearing by m/s Zonta Infratech comp. during last May, they found the quantity is 3 times more than the quantity (40000m3) tendered to them. So they wanted to get the quote revised by 3 times. The govt has now directed the corporation to retender the work. Meanwhile the draft preparation of DPR of WtE plant by /s Blueplanet is over. Again, collection points have to be finalised.  Work of WtE plant can be started only after the work of biomining is carried out.
3.	Palakkad Kanjikode	Palakkad Municipalit y	(Land taken overfrom KeralaState ElectricityBoard Ltd. inadvancepossession)  15 acres atKanjikode	Blue Planet Palakkad Waste Solutions Private Limited was formed to take up the development of the project. Consent to establish was issued to the project.
4	Kollam Kureepuzha	Kollam Corporation	7.05 acres atkureepuzha (Govt.land)	The SPV constituted for setting up of the Waste to Energy Plant of Kollam Corporation, M/s. Venad Waste Management Private Limited had applied for Consent to Establish on 09.09.2021. The proposed waste to energy plant is biomethanation based and is having a capacity of 200 TPD. Consent to establish was issued to project.
5	Ernakulam Brahmapuram	Kochi corporation	20 acres at Brahmapuram (Govt. land)	The technical bids submitted by the Bidders needs to be evaluated by the Bid-Evaluation Committee and the proposal have been submitted to Government to reconstitute the Committee. It was reported by LSGD that

				steps have been taken to re constitute the Bid Evaluation Committee and order in this regard will be issued soon. Also they expressed that a restriction can be brought in to the tender conditions to prevent one particular company being awarded more than 3WtE projects on PP mode in a particular project development time. This is to ensure more competition and also easier financial closure.
6	Idukki Munnar	Idukki Muncipality	2 acres of land at Munnar	The committee observed that the Consortium is meeting the technical and financial legibility 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
7	Thrissur	Thrissur corporation	Identified land at Ollookkara village	Thrissur Corporation identified land at Ollookkara village in Thrissur district.  Vide GO(Rt)No111/2020/LSGD dated 13/01/2020State Government has accorded sanction to Thrissur Municipal Corporation to purchase the identified land at Ollookkara Village in Thrissur district and to hand over the same on lease basis to KSIDC for the development of the project  Secretary, Thrissur Municipal Corporation to report the status of price negotiation done with the owners of the land identified.
8	Malappuram	Malappura mmuncipla ity	8.09 acres of land at Kurumbathoor village in TirurTaluk	8.09 acres of land identified by District Administration at Kurumbathur village. Tirur taluk for setting up of WtE plant. The land is under possession of KSIDC. Details of this are reported to be submitted

	to Government already by LR Deputy Collector. Not submitted any application to
	the Board.

# DUMPSITES IN KERALA AS ON APRIL 2022

4	്ധ	19	#	SI No:
Sarvodayapuram	Kottayam Vadavathoor	Kureepuzha	Vilappilshala	Location
Alappuzha	Kottayam	Kollam	Thiruvanthapuram	District
Initially volume of waste was quantified as 27000 tonnes, and an amount of Rs. 3.1 crores was the estimated. Later it was re quantified as 30000 m3. Due to the increase in volume of waste, an estimate was	DPR prepared for world bank aid .  Rs. 23.22 Crore  Also submitted proposal to SBM	Biomining is in progress, 50 % of biomining is completed. Till 24-01-2022, 5045 Metric T of legacy waste has been processed. On 24-01-2022, 85 T of RDF has been send to cement factories. It is expected to complete the bio mining process by July 2022.	Central facility was closed on 21-12-2011 due to protest. The site is unapproachable due to thick bushes and trees.	Present Status as on April 2022

+ (2)

			revised to Rs, 3.69 Crores and sent for Technical Sanction from State Mission. The State mission returned the same stating that T.S has to be issued from Municipality itself.
10	Brahmapuram	Ernakulam	Agreement executed with Zonta Zonta Infratech Pvt Ltd. Biomining started. Three sectors out of seven sectors completed. RDF -30 Tones stored in sit has already sent to cement plant by the end of April 2022
9	Laloor	Thrissar	Some area is reclaimed and construction of stadium is progressing and remaining area is taken up for biomining with Clean Kerala mission and KIEL. Proposal under consideration of Suchitwa Mission.
~	BPL Koottupatha, Palakkad	Pulakkad	Under Consideration DPR Submitted and Requested for financial Assistance due to lack of Municipal Fund
96	Njeliyamparambu, Calicut	Kozhikode	Biomining progressing In Zone 1, capping of 47000 m3 completed and rest will be commenced in January. Zone 2 and Zone 3 biomining to be done, which has been delayed due to incessant rains as well as to get

Other Dumpsite locations	Present Status as on 18-4-2022	Biomining started	Total legacy waste 437 ton estimated 247 ton legacy waste removed balance 190 ton legacy waste clearance on going.	Project worth 13.5 Lakh completed. 20 lakh project to be implemented soon.  Project for bioremediation and under consideration in Suchitwa Mission.	As per the direction of Principal Secretary a meeting was conducted with Suchitwa Mission District. C-ordinator in the presence of Honorable MLA Adv. Sebastian Kulathunkal on 07/12/21. In this meeting the Suchitwa Mission Co-ordinator informed that the tender process will be completed before 14/12/2021. But did n't tender till now.	Currently, the dumping yard was washed away in the 2021 landslide
	District	Thiruvanthapuram	Thiruvanthapuram	Kottayam	Kottayam	Kottayam
	Location	Attingal	Varkala	Changanassery, Fathimapuram	Erattupetta- Thevarrupara	Mundakkayam – Vettukallamkuzhy
	≅ %	+	£4.	tu.	4	'n

12	Ξ	50	φ	00	- 54	0
Chavakkad	North Paravoor	Muvattupuzha	Kothamangalam	Kattapana- Puliyanmala	Munnar	Thodupuzha
Thrissur	Ernakulam	Emakulam	Emakulam	Idukki	Idukki	Idukki
Total Quantity of legacy waste is 4200 Cubic Meter as per	The estimated quantity of legacy waste is 18867m <sup>3</sup> . Request has been submitted to Kerala Solid waste management for disposal of legacy waste.	Functioning for bio waste dumping and MCF activities	DPR submitted for council resolution. Council resolution pending due to lack of own fund	Direction issued to the local body for bio mining, but not actions initiated by the local body.	Bio mining is in progress	Direction issued to the local body for bio mining, but not actions initiated by the local body.

13	Chalakkudy	Thrissur	Thrissur Appointed IRTC to submit the report on DPR prepared by SEUF.
7.	Irijalakuda- Kuthuparamba	Thrissur	Windrow compost Plant (4 ton) and MCF Completed, 5 cents Pachathuruth maintained, 1.5 acre bufferzone teak plantation maintained, 30 cents remains to reclaim.  Proposal under consideration of Suchitwa Mission - KSWMP Project
22	kurukkanpara, kunnamkulam	Thrissur	Dumpsite presently not using as dumping waste, blowaste management plant and non-bio-waste management facilities like MCF, MRF, RRF are functioning at the dumpsite area
91	Kumbalangad, Wadakkancherry	Thrissur	Biomining project for this site is undertaken as part of SBM Urban DPR. A DPC project on the same is also approxed for 30 lakhs Invited EOI
17	Ottapalam	Palakkad	Tendered and placed before council for approval
18	Karathodu- Puliyettummal	Malappuram	On Process
2)	Manjeri	Malappuram	The file put up to council for approval to remove the legacy waste

13	22	벊	ĸ	21	26
Vidyanager, Kasargod	Kanjangad, Chemmatamvayal	Koothuparamba	Kalpetta	Vadakara, Puthiyapp	Thirur - Pottilathura Trenching ground
Kasargod	Kasargod	Kannur	Wayanad	Kozhikode	Malappuram
The waste is segregated and stored in a manner that does not pollute the environment	The waste is segregated and stored in a manner that does not pollute the environment	Capping done . Quantification work is going on.	Agreement has been entered into with Clean Kerala Company for disposal of non-hazardous waste including legacy waste. The waste is segregated and stored in a manner that does not pollute the environment.	Capping done over a part of legacy waste	No issues &waste segregated and stored and not polluted the environment



#### SINO 4 96 ø ú 6 Thrivatathapurun Thrivattathapurun Korhikode Kappur District Thrissur Kochi Kullan COMPARISON OF DOOR TO DOOR COLLECTION OF DRY WASTE (2019-2022) Thripsur Corporation Kollan Corporation Karmur Corporation **Kochi Corporation** Thiruvanthapuram Negystiinkara Corporation Name of the Nedunungad Corporation Kazhikode city/Town Attingal Varkala Heath old (%) Percentage of door to door collection (2019-2020) 63.5 29.4 48,5 86,4 23,3 59.9 19.4 6.2 69 90 Non-residen find premis es (%) 48.5 63.5 66.4 48.9 29.4 6.2 92 69 8 Household (%) Percentage of Door to Door Collection(May 2022) 2 2 4 8 7 8 62 9 8 2 Establishments 100 30 40 24 90 70 72 58 5 Percentage increase of Door to Household (%) 75,26 545,16 219,59 100.68 156.09 38.56 -7,25 18.11 Door Collection Establishments (%) 577.42 -37.01 -21.74106.19 286,27 219.73 -63,86 47.24 -36,96 16.67

1

	District	Name of the	Percentage o collection (	Percentage of door to door collection (2019-2020)	Percentage Collection	Percentage of Door to Door Collection(May 2022)	Percentage in Door	Percentage increase of Door to Door Collection
		BANT AND	Househ old (%)	Non-residen tial promis es (%)	(%)	Establishments (%)	Household (%)	Establishments (%)
=		Paravur (South)	9.99	999	55	75	-17.42	12.61
11	Kelliam	Karangapally	100	100	25	40	46.00	-60.00
13:		Punalur	100	100	85	100	-15.00	00'0
14		Kottarakara	0	0	74	82		
15		Adoor	09	09	70	40	16.67	-33.33
91	ordinamentalism	Pandalum	28	80	20	SS	150.00	587,50
-		Puthanamhitta	100	100	55	70	-45.00	-30.00
18		Thiravalla	94	82	93	06	-1.06	97.6
16		Alappuzha	13	09	- 30	30	592.31	-50.00
20		Chengannur	74	88	7.0	40	-5,41	-59.18
21		Cherthala	93	11	80	96	+13.98	16.88
77	Atappuzha	Harigad	31	40	82	42	164.52	2.00
23		Kayankidan	69	500	84.2	45	22.03	47.06
77		Mavelikara	22	0	70	52	233,33	

23	25	59	49	48	47	46	å	4	43	42	÷	40	39	38	37	36	35	34	Œ	32	2	30	29	28	27	26	2.5		
		Manual	Thrisen										Emukulum							animan	14454			the famous	2			District	
Vadakknochery	Kunnamkulam	Kodungallur	lrinjalakuda	Оштимушт	Chuvakkad	Chalakkudy	Theipunithura	Thrichakkara	Piravara	Penushavoor	North Paravur	Мичапирия	Maradu	Kothamangalam	Kopfluttakulam	Kalamassery	Eloar	Anguently	Alova	Thodupuzha	Kattapana	Validati	Pala	Конциан	Emmanoor	Erattupetta	Changanassery	city/Town	Name of the
100	58	34	100	70	47	32	42	100	87	80	41	29	100	7	12	62	0	42	36	0	43	67	77		35	10	78	Household (%)	collection
100	88	100	100	80	86	96	100	60.5	86	100	100	0	89	ы	*	52		40	16	0	23	,1	98		21	57	2	Non-residen tial premis es (%)	collection (2019-2020)
100	97	95	93	100	78	100	86	50	70	60	80	40	55	71	67	71	85	90	94	100	85	40	20	60	30	70	70	Household (%)	collection
GEF GFF	73	93	96	100	96	100	93	55	55	100	80	40	40	80	85	80	100	75	88	100	65	30	20	30	25	80	55	Establishments (%)	collection(May 2022)
000	67:24	179.41	-7.00	42.86	65.96	212.50	104.76	-50.00	-19.54	-25.00	95.12	37.93	-45.00	914.29	458.33	14.52		114.29	161,11		97.67	-40.30	-74,03		-14.29	600.00	-10.26	Heusehold (%)	Percentage inc
-15.00	-17.98	-7.00	-4.00	25,00	11.63	4.17	-7.00	-9 09	-36,05	0.00	-20.00		-55.06	2566.67	1114.29	53.85		87.50	-3.30		182.61	2900.00	-79.59		19.05	40.35	2650.00	Establishments (%)	Percentage increase of Door to Door Collection

District	Name of the city/Town	Percentage (	Percentage of door to door collection (2019-2020)	Percentage collection	Percentign of Door to Door collection(May 2022)	Percentage inc Door C	Percentage increase of Door to Door Collection
	2	Housek aid (%)	Non-residen Gid premir cs (%)	Household (%)	Establishments (%)	Househald (%)	Establishments (%)
	Cheruphissory		84	86	7.6		-9.52
	Chimur- Thattamangulum	81	68	58	80	4.94	-10.11
	Mannackadu	40	11	88	09	120.00	445.45
Palakkad	Ottapalam	0	0	76.8	50.35		
	Palakkad	100	82	20	83	-30.00	13.41
	Pattambi	80	12	33	36	-58,75	200,00
	Shornst	13	26	96	100	638,46	284.62
	Kondotty	80	27	80	20	00:00	85.19
	Kottakkal	0	44	2.47	22		-50.00
	Malappuram	33		09	20	62.16	
	Manjeri	100	53	30.8	36.8	-69.20	-30.57
	Nilambur	38	34	75	09	97.37	76.47
Madappuram	Parapparangadi	80	70	86	85	22.50	23,43
	Periorthalmanno	29	79	64	26	120,69	-3.80
	Pomini	45	35	62	40	37.78	90.09
	Thattoot	100	100	85	09	-15.00	-40.00
	Thirocranged	100	30	42	25	-58.00	+16.67
	True	48	MA.	87	71	81.25	1320,00
	Valanchery	100	100	90	50	-40.00	-50.00
	Famke	09	86	90	7.5	20.00	837.50
	Koduvally	06	16	06	92	00'0	-28.57
	Koyilandy	100	Not given	90	10	-10.00	
Koohikode	Mukkam	100	100	85	80	-15.00	-20.00
	Payyoff	89	100	90	65	1.12	-35.00
	Rammattukara	69	81	90	80	50.00	-1.23
	Vadakura	40	47	20	50	25.00	6.38

	93	92	16	90	89	88	87	86	85	84	83	82	81	80	79		
		Kasargode						Kangur						Waymud			District
Average	Nikshwanan	Kassragod	Kanhangad	Thaliparambu	Thalassery	Sreckantapurum	Payyanor	Pandor	Mattanor	Koothoparambu	Irsty	Anthore	Sulthanbathery	Manusthisudy	Kalpeth	15%	Name of the
60.69%			100	86	100	87	51	100	100	60	96	100	98	100	0	Househ sid (%)	Percentage o
56.90%			100	32	28	19	1	88	7.1	26	69	90	65	98	0	Non-residential premises (%)	Percentage of door to door collection (2019-2020)
74.58%	90	88	85	90	90	95	86	95	90	89.2	63	98	(12	52	98	Household (%)	Percentage : enflection
64.33%	100	74	70	50	60	90	52	0	90	86	65	78	ď	26	ع	Establishments (%)	Percentage of Door to Door unflection(May 2022)
			-15.00	4.65	-10.00	9.20	68.63	-5.00	-10.00	48.67	-34,38	-2.00	-96.94	-48.00		Household (%)	Percentage inc
			-30.00	56.25	114.29	373.68	5100.00	-100.00	26.76	230.77	-5.80	-13.33	-90.77	-73.47		Establishments (%)	Percentage increase of Door to Door Collection



### **Annexure III-C**

		Status report	t of Waste to E	nergy Plant
Sl. No	Waste to Energyplant	Land Identified	Procured	Status
1	Kozhikode Njaliyanparambu	Kozhikode corporation	(Govt. land)12.67acre at Njaliyanparabu	Work awarded to Zonta Infratech Private Limited for the construction of Waste to Energy Plant.
				Consent to establish was issued to Malabar Waste Management Private Limited on 12-8-2020 with a validity upto 30-6-2023 for the generation of 6MW electricity and 20T of compost.
				• Biomining of legacy waste is 50% complete. The total area for biomining is 1.8 acres.
				All licenses from the corresponding departments were obtained for the construction of waste to energy plant. Work will be started only after monsoon.
2	Kannur Chelora	Kannur Corporation	(Govt. Land) 9.7 acres at Chelora	Work of WtE plant can be started only after the work of biomining is carried out. WtE plant is proposed in 9.7 acres of land after clearing the legacy waste.
				<ul> <li>Tendering completed and DPR prepared by Blue planet. Consent application is yet to be received.</li> </ul>
				• For biomining, volume of legacy waste – 1,22,844 m3 (NIT). First given to Zonta and they asked to revise the amount of biomining. Again retendered

				and identified a suitable contractor, Jan-Adhar Sevabhavi Sanstha. Agreement to be executed  • Waste characterization done on 18-4-2020. Six samples taken-10kg from upper and lower part at three locations- 50-70% inert, 15-25% recoverable-12-18% organic compost. Cu in one sample, chromium in three and lead in four exceeded. Capping can be considered for maximum 10% residual rejects after biomining of stabilized waste.
3.	Palakkad Kanjikode	Palakkad Muncipality	Land taken over from Kerala State Electricity Board Ltd. in advance possession 15 acres at Kanjikode	<ul> <li>Blue Planet Palakkad Waste Solutions Private Limited was formed to take up the development of the project.</li> <li>Consent to establish was issued on 21-12-2021 to the project with a validity upto 30-11-2023.</li> <li>200T of municipal solid waste will be processed. The products include 4018kg/day of compressed biogas; 60TPD of RDF; 6 TPD of recyclables; 12 TPD of waste for sanitary landfills; 35.75 TPD of dry organic compost/manure</li> </ul>
4	Kollam Kureepuzha	Kollam Corporation	7.05 acres at Kureepuzha (Govt. land)	<ul> <li>The SPV constituted for setting up of the Waste to Energy Plant of Kollam Corporation,</li> <li>M/s. Venad Waste Management Private Limited had applied for Consent to Establish on 09.09.2021. The proposed waste to energy</li> </ul>

				plant is bio methanation based and is having a capacity of 200 TPD.  Consent to establish was issued to project on 10-1-2022 with a validity upto 9-1-2025 for the production of 8.165TPD of compressed biogas from 200TPD of municipal solid wastes  Biomining of legacy waste is 50% complete.
5	Ernakulam Brahmapuram	Kochi corporation	20 acres at Brahmapuram (Govt. land)	<ul> <li>Bio mining of legacy waste started on February first week by M/s Zonta Infra Tech Ltd. They have completed biomining of four sectors out of seven sectors.</li> <li>For construction of Waste to Energy plant, work order was issued to M/s. Zonta Infra Tech. Based on the technical meeting held on 03.01.2022 by the Principal Secretary LSGD, representatives from M/s. Zonta Infra Tech informed that steps have been taken to transport the machineries from Delhi and Pune.</li> </ul>
6	Idukki Munnar	Idukki Muncipality	2 acres of land at Munnar	<ul> <li>Bio mining of legacy waste is going on and the authorities informed that it will be expected to complete before monsoon.</li> <li>The committee observed that the Consortium is meeting the technical and financial eligibility Criteria.</li> <li>The consortium made a detailed presentation of their technical</li> </ul>

7	Thrissur	Thrissur corporation	Identified land at Ollookkaravil lage	plan before the Bid evaluation Committee.  SLAC after detailed discussion resolved to accord sanction to proceed with the financial evaluation of the Bid  Thrissur Corporation identified land at Ollookkara village in Thrissur district.  Vide GO(Rt)No111/2020/LSGD dated 13/01/2020 State Government has accorded sanction to Thrissur Municipal Corporation to purchase the identified land at Ollookkara Village in Thrissur district and to hand over the same on lease basis to KSIDC for the development of the project Secretary, Thrissur Municipal Corporation to report the status of price negotiation done with the owners of the land identified.
8	Malappuram	Malappuram munciplaity	8.09 acres of land at Kurumbathoor village in Tirur Taluk	8.09 acres of land identified by District Administration at Kurumbathur village. Tirur taluk forsetting up of WtE plant. The land is under possession of KSIDC. Details of this are reported to be submitted to Government already by LR Deputy Collector.Not submitted any application to the Board.
9.	Thiruvananthapuram	Thiruvananth apuram Corporation		Land identification

# Form IV A [See rule 13 (2)]

Format for submission of the Annual Report Information on Bio- Medical Waste Management (to be submitted by the State Pollution Control Committees and Director General Armed Forces Medical Services to Central Pollution Control Board on or before 31<sup>st</sup> July of every year for the period from January to December of year 2020)

1)	Name of Organization	:	Kerala State Pollution Control Board
2)	Name of Nodal Officer with contact telephone number and e-mail	:	Er. Premaletha S., Environmental Engineer Head Office, TVM ms.kspcb@gov.in pcbhoawareness2@gmail.com 9447975725 0471-2318151
3)	Total no. of Health Care Facilities/ Occupiers	:	17122
i)	Bedded Hospitals and Nursing Homes (bedded)	:	2027
ii)	Clinics, Dispensaries	:	9255
iii)	Veterinary Institutions	:	585
iv)	Animal houses	:	31
v)	Pathological Laboratories	:	2602
vi)	Blood Banks	:	23
vii)	Clinical establishment	:	1366
viii)	Research Institutions	:	5
ix)	AYUSH	:	1228
4)	Total no. of beds	:	119762
5)	Status of authorization:	ı	
i)	Total no. of Occupiers applied for authorization	:	13736
ii)	Total no. of Occupiers granted authorization	:	13348

iii)	Total no. of application under consideration	:	79
iv)	Total no. of application rejected	:	322
v)	Total no. of Occupiers in operation without applying for authorization	:	2471
6)	Quantity of Bio- Medical Waste Generation (in kg/day) (please ensures District wise Bio- Medical Waste Generation as per Part-2)		
i)	Bio medical waste generation by bedded hospitals ( in kg/day)	:	35849kg/D
ii)	Bio- medical waste generation by non-bedded hospitals ( in kg/day)	:	4058 kg/D
iii)	Any other	:	501 kg/D
	Total:40408kg/day ( Non-COVID -2791	2 kg	g/D, COVID -12496 kg/D)
7)	Bio- medical waste treatment and disposal	:	
a)	By Captive bio- medical waste treatment and disposal by Health Care Facilities ( please enclose details as per ( part-3)		
i)	Number of Health Care Facilities having captive treatment and disposal facilities	•	51
ii)	Total bio-medical waste treated and disposed by captive treatment facilities in kg/day	:	3390 kg/D
b)	Bio-medical waste treatment and disposal by common Bio medical Waste Treatment Facilities ( please enclose as per Part4)	:	
i)	Number of common Bio Medical Treatment Facilities in Operation	:	1
ii)	Number of common Bio Medical Treatment Facilities under construction	:	1
iii)	Total Bio- Medical waste treated in kg/day	:	36817 kg/D
iv)	Total treated bio- medical waste disposed through authorised recyclers ( in kg/day)	:	8238187 kg/year(22570 kg/day ave.)
8)	Total no. of violation by		

	T		<del>                                     </del>
i)	Health care Facilities ( bedded and non-bedded)	:	132
ii)	Common Bio Medical Waste Treatment Facilities	:	nil
iii)	Other (please specify)	:	1245
9)	Show cause notice/direction issued to defaulter	:	
i)	Common Bio Medical Waste Treatment Facilities	:	Nil
ii)	Others	:	1179
10)	Any other relevant information		
i)	Number of workshops/training conducted during the year	:	20 (Awareness training and seminars through VC) conducted by the Board 8746 by the cbwtf,IMAGE
ii)	Number of Occupiers installed liquid waste treatment facility	:	All health care facilities were provided disinfection system for bio medical liquid waste. STPs provided in 149 bedded hospitals and all other hcfs were provided septic tank-soak pit system
iii)	Number of captive incinerators complying to the norms	:	19 hospitals provided incinerators. Directions were issued to these for ugmentation of incinerators to meet CPCB emission standard. These hospitals had not disposed COVID waste through these incinerators
iv)	Number of occupiers organized trainings	:	
v)	Number of occupiers constituted Biomedical waste management committees	:	Major bedded hospitals were formed management committees. In small hefs staffs were deputed especially for the management of BMW
vi)	Number of occupiers submitted annual Report for the previous calendar year	<u>:</u>	2487
vii)	Number of occupiers practicing pre- treatment of lab microbiology and bio- technology waste		2014
viii)	Number of Common Bio Medical Waste Treatment facilities that have installed continuous Online Emission Monitoring systems	:	1

Part 2: District-wise Bio- Medical Waste Generation (for the previous calendar year 2020)

Sl. No	Name of the State/ Union Territory	Name of the State/union Territory	Bio-Medical Waste Genera- tion (in kg/day)	Existing Total Bi treatment capacity CBMW kg/day	
				Equipment	
			40408kg/day	Incinerator IMAGE - Captive facilities	35 T/D 8.6 T/D
	Kerala State Pollution		( both COVID and non-	Autoclave	20T/D
	Control Board		COVID	Shredder	15 T/D
			BMW)	Deep Burial(in hcfs in idukki)	0.037T/D
				Sharp encapsulation pit at IMAGE	1T/D(20no )

<sup>•</sup> Deep burial was practiced in some health care facilities in Idukki district in 2020. But now all these are affiliated with cbwtfs

### Part 3: Information of Health Care Facilities having captive treatment facilities (for the previous calendar year 2020)(copy attached as Annexure)

Part 4: Information on Common Bio Medical Waste Treatment and Disposal Facilities (for the previous calendar year 2020)

S 1 N o	Name and Address of the common Bio Medical Waste Treatment Facilities with contact person name and telephone no.	GPS Co- ordi- nates	Coverage Area in KMS	Name of the cities/areas covered by common Bio-Medical Waste Treatment facilities	Total number of Health Care Facilities being covered	Total num- ber of beds cov- ered	Total Quantity of Bio Medical Waste collected from member Health Care Facilities (kg/day)	Capacity of ment installe Medical Was ities	ed by Co	mmon Bio	Total Bio- Medical Waste treated in Kg/day	Method of Dis- posal of treated wastes ( incin- eration Ash/sh arps/Pl astic
1		Lat itud e- 10* 48'	400 km from Para- sa-	Entire State	16,602	1,63 ,474	36.8 t/D	Equipment	Num- bers	Total installed capacity ( kg/day)		
		54 N Lo ngit ude	la+38 Okm from Man- jeswa- ram					Incinerator	5	35t/D	4940 t/annun (13.5 T/D)	Incineration Ash: Quantity disposed By
		- 76*						Plasma paralysis			nil	
	IM-	43' 34' 'E						Autoclave	5	20T/ D	5912T/a nnum(16 T/D)	Sharps
	AGE,CBWT F, MAN- THURUTHI, KAN- JIKODE							Hydro- clave				Quanti- ty Dis- posed by
	WEST, PA- LAKKAD 678623							Shredder	3	15T/ D		Plastics Quantity
	070025							Sharp encapsula- tion or concrete pit	20	1 T/D	259t/ann um(0.7 t/D)	
								Deep burial pits		NIL	NIL	NIL
								Any other equipment	3	sort- ing con- vey- ors shred der cum wash-		

						ing ma- chine s		
						Chem ical disinfection(b ottle washing machine	8 T/D	
				Effluent Treatment plant	ETP -4.5 lakh L/D ay	ZLD		
				Sub- total	<b>55.8</b> (incir	T/day eration	+ autoclav	e)

- a. Total No. of transportation vehicles used for collection of Bio- Medical Waste on daily basis by the common Bio- Medical Waste Treatment facilities:71 vehicles
- b. List of Health Care Facilities not have membership with the Common Bio- Medical Waste Treatment facilities and neither having captive treatment facilities: NIL
- c. No. of trainings organized by the Common Bio-Medical Waste Treatment facility operators:8746
- d. No. of Accidents reported by the Common Bio Medical Waste Treatment Facilities: Nil

Part 2: District wise details of HCFs

Name of district	Name of State	Total	Bio medical
		number	waste
		of HCFs	generation
			(captive &
			CBWTF) in
			kg/day
Thiruvananthapuram	KERALA	1326	6294
Kollam	KERALA	1725	3003
Alappuzha	KERALA	764	3069
Pathanamthitta	KERALA	905	2331
Kottayam	KERALA	1136	2960
Idukki	KERALA	864	1420
DO1, Ernakulam	KERALA	1267	3783
DO2,Ernakulam	KERALA	660	1104
Thrissur	KERALA	1717	4871
Palakkad	KERALA	1040	1470
Malappuram	KERALA	1986	2732
Kozhikkodu	KERALA	1509	3655
Wayanad	KERALA	337	368
Kannur	KERALA	1245	2536
Kasargodu	KERALA	420	663
ESC,Eloor,EKM	KERALA	221	149
Total		17122	40408

### Annexure III-e

								Submission	of Annual	Inventory on	Hazardous and O	ther Waste	Management						
	Name of SPCB	KERALA										Year: -2020							Т
A	1 Details on Haz	ardous Wa	aste Gene	ration															1
				Numbe		Authorized Q	uantity of F Ton	lazardous Waste ne)	(Metric		Quantity of H	W Generate Ton		ear (Metric		Details on	Import and Export of Hazai	rdous Wa	ste
SI. No	Name of the District	Total Number of HW Generat ing Industry	Number of Units Processi ng authoris ation	r of Units excem pted from obtaini ng Author isation	Number of HW Units submitte d annual returns	Landfillable	Incinerabl e	Recyclable	Utilizabl e	Total Quantity	Landfillable	Incinerabl	Recyclable	Utilizable	Total Quantity	Quantity of HW Imported during the year (Metric Tonne)	Type of HW *	Quantity of HW exported duri	Type of
_					1	2	3	4	5		6	7	8	9		10		11 12	2 13
	Trivandrum Kollam	135 136	135 136	nil Nil	10 136	2488.29 20000	nil Nil	45.16 255.15	Nil	2533.45 20255.15	930.19 14173.34	Nil	45 255.15	Nil	975.19	nil Nil	nil NA	nil Nil	NA
-	Alappuzha	38	38	Nil	23	4350		64		4414	3823.66		64		3887.66				+
-	Pathanamthitta	26	26	Nil	20	4330	4.588	52.386		56.974	4.588		52.386		56.974	Nil			+
	Kottayam	61	61	NIL	6	458.4	NIL	595.36	NIL	1053.76	215.768	NIL	55.08	NIL	270.848	NIL	NIL	NIL	NIL
	Idukki	58	58	NIL	22	33	NIL	96.06	NIL	129.06	32.1	NIL	21.73	NIL	53.83	NIL	NIL	NIL	
7	Ernakulam DO 1	152	152	NIL	91	6255.18	NIL	1653.26	NIL	7908.44	3396.69	NIL	5846.54	NIL	9243.23	NIL	NIL	Nil	Nil
8	Ernakulam DO 2	460	460	NIL	40	8520.03		70.54	2750.79	11341.36	6814.658			2711.713	9526.371	NA	NA	NA	NA
9	ESC Eloor	51	51	NIL	13	1658.87	1132	11589.5	3.21	14383.58	2098.92	6.935	65.047	2.635	2173.54	NIL	NIL	NII	NIL
10	Thrissur	180	143	Nil	40	700	0	246.125	0	946.125	88.37	0	95.668	0	184.038	Nil	Nil	Nil	NA
11	Palakkad	75	75	0	75	2140.064	0	3164.793	0	5304.857	1425.598	0	146.24	0	1571.838	0	NA	0	NA
12	Malappuram		28( 4 KSRTC DEPOT	nil	32	14487.26	nil	351.197	nil	14838.457	14487.26	nil	351.197	nil	14838.457	0	NIL	nil	nil
	Kozhikode	103	103	0	103	218.948	NIL	165.019	NIL	383.967	218.948	0	165.019		383.967	0	NA	0	NIL
_	Wayanad	39	39	Nil	38	Nil	Nil	17.55	Nil	17.55	Nil	Nil	17.55	Nil	17.55	Nil	Nil	Nil	
-	Kannur	258	258	nil	61	69.311	nil	128.593	nil	197.904	69.311	nil	128.593	nil	197.904	1 . 1		<u> </u>	<del>+</del>
-	Kasargod	34	33	NIL	21	0.283	****	52.898		53.181	0.283	····	52.898		53.181	1	•		<u> </u>
Ħ																			
	Total	1838	1796	0	731	61379.636	1136.588	18547.591	2754	83817.815	47779.684	6.935	7362.098	2714.348	57863.065	0		NIL	NIL
	Note:	*Please sp	ecify cate	gory also	(i.e.Schedu	ıle 111-PartA/B/	D OF HOW	M Rules with Bas	el Number										

	A2 Details on Inter-state Movement	of Hazardous Wa	ste for Recycling /	Utilisation/Dispos	sal
S. N.		Hazardous Wast other S		Hazardous Was	
S. No		Name of			
		State/UT from		Name of	
		which waste	Quantity	State/UT where	Quantity
		received	received (MT)	waste sent (MT)	sent (MT)
		14	15	16	17
1	For disposal at common secured landfill				
2	For disposal at common Incinerator				
3	For recycling by Schedule IV recyclers			Karnataka	Authorised quantity used oil: 500KL/year
	For Utilization in co-processing (cement plants)				
	For non-captive utilization based on CPCBs SOPs				

A3 Details	on Hazardous Waste	Recycled an	d Utlized								
		Recycling /	Utilization	of hazard	ous waste	(generate	d within th	e State/ UT)	Recycling/Ut waste ( receive		
					Qua	ntity Utiliz	ed (MT)			Quantity	Utilized (MT)
		Quantity o recycled (list Schedul Hazardous	ed under le-IV	Co-proce	essing in	l	aptive 1 based on	Captive utilization of hazardous	Quantity of waste Recycled (listed under Schedule-IV	Co- processi ng in Cement	Non-captive utilization based on
S.No.	Name of the District	(MT	)	Cemen	t plant	СРСВ	SOPs	waste and	Hazardous	plant	CPCBs SOPs
		Generated within state	Imported	Generate d within	Imported	Generate d within	Imported	other	Wastes )(MT)		
		18	19			22		24	25	26	27
1	Trivandrum	45	NA	NA	NA	NA	NA	NA	NA	NA	NA
2	Kollam	255.15	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
3	Alappuzha	64		NA		NA			NA		
4	Pathanamthitta	52.386		Nil		Nil		Nil	Nil		
5	Kottayam	55.08	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
6	Idukki	21.73	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
	Ernakulam DO 1	5846.54	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
	Ernakulam DO 2		NA	NA	NA	NA	NA	2711.713	NA	NA	NA
	ESC Eloor	65.047	NIL	NIL	NIL	NIL	NIL	2.635	NIL	NIL	NIL
	Thrissur	95.668	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	Palakkad	146.24	0	0	0	0	0	0	90.764	0	0
	Mallapuram	351.197					_			_	_
	Kozhikode	165.019	0	0	0	0	0	0	0	0	0
	Wayanad	17.55	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	Kannur	128.593									
16	Kasargod	52.898									
Total		7362.098	0	0	0	0	0	2714.348	90.764	0	0

A4 Det	ails on Hazardous	Waste Dispo	sed						
	Name of the	Disposal of		iste (gener	rated within the	waste (rec	Hazardous eived from tate/UT)		
S. No.	District	Secured L	Disposed in andfill (MT)	through I	ity Disposed ncinerator (MT)	Quantity Disposed in common(MT)			
		Common	Captive	Common	•	SLF	Incinerator		
		28	29	30	31	32	33		
	Trivandrum	930.19	Nil	Nil		NIL			
	Kollam	Nil	14173.34	Nil	Nil	Nil	Nil		
	Alappuzha	3823.66			0		0		
4	Pathanamthitta	4.588	NA	NA	NA	NA	NA		
5	Kottayam	215.768	Nil	Nil	Nil	Nil	Nil		
6	Idukki	32.1	Nil	Nil	Nil	Nil	Nil		
7	Ernakulam DO 1	3396.69	NIL	NIL	NIL	NIL	NIL		
8	Ernakulam DO 2	6518.818	295.84	NA	NA	NA	NA		
9	ESC Eloor	2098.92	NIL	NIL	6.935	NIL	NIL		
10	Thrissur	88.37	Nil	Nil	Nil	Nil	Nil		
11	Palakkad	1425.598	0	0	0	0	0		
12	Mallapuram	14487.26	Nil	Nil	Nil	Nil	Nil		
13	Kozhikode	218.948	0	0	0	0	0		
14	Wayanad	Nil	Nil	Nil	Nil	Nil	Nil		
15	Kannur	69.311							
16	Kasargod	0.283	Nil	Nil	Nil	Nil	Nil		
	Total	33310.504	14469.18	0	6.935	0	0		

### **A5 Details on Hazardous Waste Stored at Occupier Premises**

S.No	Name of the District	•	antity of HW at the beginn yeari.e. 1st A	ing to the fir	•	al premises at the end of financial year i.e March (MT)					
		Landfillable	Incinerable	Recyclable	Utilizabl e	Landfillable	Incinerable	Recyclable	Utilizable		
		34	35	36	37	38	39	40	41		
1	Trivandrum										
2	Kollam	69179.53	Nil	Nil	Nil	83352.87	Nil	Nil	Nil		
	Alappuzha										
4	Pathanamthitta										
5	Kottayam	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil		
6	Idukki	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil		
7	Ernakulam DO 1	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL		
8	Ernakulam DO 2	NIL	NIL	NIL	3.08976	NIL	NIL	NIL	NIL		
9	ESC Eloor	104.2	NIL	6.8	NIL	1.60	NIL	1.44	NIL		
10	Thrissur	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil		
11	Palakkad	139.686	0	26	0	124.282	0	8.432	0		
12	Mallapuram	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil		
13	Kozhikode	0	0	0	0	0	0	0	0		
14	Wayanad	NIL	NIL	9.06	NIL	NIL	NIL	17.55	NIL		
15	Kannur					2.131		2.587			
16	Kasargod	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil		
	TOTAL	69423.416	0	41.86	3.08976	83480.883	0	30.009	0		

A6 Details on manag	ement of Other Was	te (Domestically gen	erated and ir	nported)																
S.No. Name of the District	recycling /utiliza	nits authorized for tion of Other Waste MT)	Authorize	d capacity (MT)	Quantity of other waste Imported from other country (MT)	Basel Number	Name of country	Quantity of other waste exported to other country (MT)	Type and category	Name of Country	Quantity of other waste domestically generated (MT)	waste	waste sent to other state	(Schedule III utilized/recy	f other waste waste B and D) cled during the -March (MT)	Other waste sent for disposal to Common TSDF (MT)	Quantity of HW generated during recycling/ utilization of other waste	Quantity of HW sent for disposal (MT) (as given at 54)	stored a premises (I imported ar	ofn other waste at occupiers MT) (Including nd domestically perated)
		Other Waste Schedule III-Part D	Part B	Other Waste Schedule III-Part D										Imported	Domestically generated		(MT)		year	l at the end of financial year
<u> </u>	42	43	44	45	46	46(i)	46(ii)	47	47(i)	47(ii)	48	49	50	51	52	53	54	54(i)	55	56
1 Trivandrum					-					<del>                                     </del>										1
2 Kollam	Nil	Nil	NA	NA	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
3 Alappuzha																				
4 Pathanamthitta	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
5 Kottayam	NIL	NIL	NIL	NIL	NIL	NIL		NIL	NIL		NIL	NIL	NIL	NIL	NIL	NIL	NIL			
6 Idukki	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
7 Ernakulam DO 1		NIL	NIL	NIL	158.93	NIL  B3020, B1010 as per Schedule 111-Part D OF	NIL CANADA,UAE, SAUDI ARABIA, HONGKONG, SINGAPORE, MALASIA,DUBAI, , AUSTRAILA, NEW ZEALAND ,MAURATIUS,	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
8 Ernakulam DO 2		4			17800	HWM Rules	UK	NA	NA	NA	NA	NA	NA	8671.14	NA	NA	NA	NA	NA	NA
9 ESC Eloor	Nil	Nil	Nil	Nil	Nil		2.01	Nil			<b>_</b>	<u> </u>		Nil	Nil	Nil	Nil		Nil	Nil
10 Thrissur	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
11 Palakkad	0	19	0	61000	12548	B1010	Multiple	0	NA NU	NA NII	112930	0	0	12548	112930	0	0	0	0	0
12 Mallapuram	NIL	NIL	NIL	NIL	165	NIL P1010	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
13 Kozhikode	0	0	0	0	59500	B1010	Multiple	0	NA NII	NA NU	0	0	0	59500	0	0	0	0	0	0
14 Wayanad	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
15 Kannur					nil	A171	A P. I	· ·	A I'I								No.	A 171	A.P.I	A section
16 Kasargod	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
								<u> </u>		ļ	<u> </u>	<u> </u>								<del> </del>
Total	NIL	23	NIL	61000	90171.93	2	Multiple	NIL	NIL	NIL	112930	NIL	NIL	80719.14	112930	NIL	NIL	NIL	NIL	NIL

A/-AL	Petails of Domestic H	lazardous Wa	astes Resu	Iting from	Enforceme	ent of Oth	er Regulat	ion	
S.No.	Name of the District	Name and Address of deposition centres authorized for collection	Authoriz ed capacity (MT)	of	utilizatio n (MT)	domestic to comm (N	IT)	stored at de at the beginning of the financial	hazardous waste position centres (MT)  at the end of financial year i.e. 31st March
1	Trivandrum	Nil	Nil	Nil	Nil	61 Nil	Nil	Nil	Nil
	Kollam	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	Alappuzha	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
	Pathanamthitta	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
5	Kottayam	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	Idukki	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
7	Ernakulam DO 1	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
8	Ernakulam DO 2	Nil	Nil	Nil	Nil	NI:I	Nil	Nil	Nil
						Nil			
	ESC Eloor	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
10	ESC Eloor Thrissur							Nil NIL	
10 11	ESC Eloor Thrissur Palakkad	Nil NIL Nil	Nil NIL Nil	Nil NIL Nil	Nil NIL Nil	Nil NIL Nil	Nil NIL Nil	Nil NIL Nil	Nil NIL Nil
10 11 12	ESC Eloor Thrissur Palakkad Mallapuram	Nil NIL Nil Nil	Nil NIL Nil Nil	Nil NIL Nil Nil	Nil NIL Nil Nil	Nil NIL Nil Nil	Nil NIL Nil Nil	Nil NIL Nil Nil	Nil NIL Nil Nil
10 11 12	ESC Eloor Thrissur Palakkad	Nil NIL Nil Nil	Nil NIL Nil Nil	Nil NIL Nil Nil	Nil NIL Nil Nil	Nil NIL Nil Nil	Nil NIL Nil Nil	Nil NIL Nil Nil	Nil NIL Nil Nil
10 11 12 13 14	ESC Eloor Thrissur Palakkad Mallapuram Kozhikode Wayanad	Nil NIL Nil Nil NIL	Nil NIL Nil Nil NIL	Nil NIL Nil Nil NIL Nil	Nil NIL Nil Nil NIL	Nil NIL Nil Nil NIL	Nil NIL Nil Nil	Nil NIL Nil Nil NIL	Nil NIL Nil Nil NIL NIL
10 11 12 13 14	ESC Eloor Thrissur Palakkad Mallapuram Kozhikode	Nil NIL Nil Nil NIL NIL NIL Nil	Nil NIL Nil Nil NIL NIL NIL Nil	Nil NIL Nil Nil NIL Nil NIL Nil	Nil NIL Nil Nil NIL NIL NIL NIL Nil	Nil NIL Nil Nil NIL Nil Nil Nil	Nil NIL Nil Nil NIL Nil NIL Nil	Nil NIL Nil Nil Nil Nil Nil Nil Nil	Nil NIL Nil Nil
10 11 12 13 14 15	ESC Eloor Thrissur Palakkad Mallapuram Kozhikode Wayanad	Nil NIL Nil Nil NIL	Nil NIL Nil Nil NIL	Nil NIL Nil Nil NIL Nil	Nil NIL Nil Nil NIL	Nil NIL Nil Nil NIL	Nil NIL Nil Nil NIL	Nil NIL Nil Nil NIL	Nil NIL Nil Nil NIL NIL

A7-B Details ofFluorescent and Other Mercury containing lamps resulting from Enforcement of Other Regulation

							•	ardous waste stored at on centres (MT)		
SI.No.	Name of the District	Name and Address of collection m centres authorized for collection	Authoriz ed capacity (MT)	received at collectio n centres (MT)	, ,		at the beginning of the financial year i.e.1st April 70	at the end of financial year i.e.31st March 71		
1	Trivandrum	Nil	Nil	Nil	Nil	Nil	Nil	Nil		
2	Kollam	Nil	Nil	Nil	Nil	Nil	Nil	Nil		
3	Alappuzha	Nil	Nil	Nil	Nil	Nil	Nil	Nil		
4	Pathanamthitta	Nil	Nil	Nil	Nil	Nil	Nil	Nil		
5	Kottayam	Nil	Nil	Nil	Nil	Nil	Nil	Nil		
6	Idukki	Nil	Nil	Nil	Nil	Nil	Nil	Nil		
7	Ernakulam DO 1	NIL	NIL	NIL	NIL	NIL	NIL	NIL		
8	Ernakulam DO 2	KEIL	90	Nil	Nil	Nil	35.6	35.05		
	ESC Eloor	Nil	Nil	Nil	Nil	Nil	Nil	Nil		
	Thrissur	Nil	Nil	Nil	Nil	Nil	Nil	Nil		
	Palakkad	Nil	Nil	Nil	Nil	Nil	Nil	Nil		
	Mallapuram	Nil	Nil	Nil	Nil	Nil	Nil	Nil		
	Kozhikode	Nil	Nil	Nil	Nil	Nil	Nil	Nil		
	Wayanad	Nil	Nil	Nil	Nil	Nil	Nil	Nil		
	Kannur	Nil	Nil	Nil	Nil	Nil	Nil	Nil		
16	Kasargod	Nil	Nil	Nil	Nil	Nil	Nil	Nil		
	TOTAL	KEIL	90	Nil	NIL	0	35.6	35.05		

A8 D	etails of waste colle	ectors											
S.No.	Name of the District	Name and address of waste	Authoriz ed capacity	Quant waste r at coll centre	eceived ection	Quantii waste se recycl /utilizatio	nt for ing	Quantity of waste sent to common TSDF		Quantity of stored at beg the year final i.e.1st Apr	inning of ncial year	Quantity of waste stored at end of the year financial year i.e.31st March (MT)	
		collectors	(MT)	Hazard ous Waste	Other Waste	Hazardou s Waste	l	Hazardo us Waste	Other Waste	Hazardous Waste	Other Waste	Hazardou s Waste	Other Waste
		72	73	74	75	76	77	78	79	80	81	82	83
1	Trivandrum	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
2	Kollam	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
3	Alappuzha	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
4	Pathanamthitta	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	Nil	Nil	Nil	Nil
5	Kottayam	Nil	Nil	Nil	Nil	NIL	NIL	Nil	Nil	Nil	Nil	Nil	Nil
6	Idukki	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
7	Ernakulam DO 1	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
8	Ernakulam DO 2	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	Nil	Nil	Nil	Nil
	ESC Eloor	Nil	Nil	Nil	Nil	NIL	NIL	Nil	Nil	Nil	Nil	Nil	Nil
10	Thrissur	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
11	Palakkad	Nil	Nil	Nil	Nil	NIL	NIL	Nil	Nil	Nil	Nil	Nil	Nil
12	Mallapuram	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
13	Kozhikode	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
14	Wayanad	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	Nil	Nil	Nil	Nil
15	Kannur	Nil	Nil	Nil	Nil	NIL	NIL	Nil	Nil	Nil	Nil	Nil	Nil
16	Kasargod	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	Total	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

Recycling units collect the waste from all districts

## B. Annual Inventory on Recycling/ Utilization/ Pre-processing/ Co-Processing of Hazardous and Other Waste

Nam	e of SPCB			Year:	
		No of Facilities authorized for recycling		processed/0	ycled /Utilized/Pre- Co-processed (MT) ng the year
S. No.	Type of Recycling Facilities	/utilization/ Pre- processing/C o-processing /Co- processing of HW (MT)	Total Authorized Capacity (MTA)	Imported Quantity	Other Than Imported Quantity
		84	85	86	87
1	Hazardous Waste				_
	Commonly Recyclable				
	HW		T		
	Brass Dross				
	Zinc Bearing Wastes				
3	Copper Bearing Waste				
4	Spent catalyst containing nickel, cadmium, Zinc, copper, arsenic, vanadium and cobalt	1	72	0	0
5	Lead bearing waste including battery waste				
6	E-Waste				
7	Paint and ink Sludge/ residues				
8	Used Oil	6	27891.6	0	3820.695
9	Waste Oil	4	17841	0	1332.091
	Add row for recycling of hazardous waste (listed under schedule IV) apart from above and provide relevant details requirede under the respective columns				
	Total	11	45804.6		5152.786
					1
В	Non-Captive utilization ba	ased on CPCBs	SOPs		
	from spent solvents				
2	Residue generated from				

3	Catalyst-to recover-				
	H2SO4 generated from				
	containing Molybdenum				
-	contaminated				
	Total				
	1001	1			
С	Captive utilization of haza	rdous wastes fo	r which SOP has no	t been prepare	d by CPCB
	Melting in induction	18	200000	12548	112930
2					
	hazardous and other				
	Total	18	200000	12548	112930
	Pre-processing of hazardo	ous waste			
1					
2					
	hazardous and other				
	Total				
E	Co-processing in Cement	Plants			
1					
2					
	hazardous and other				
	Total				
II	Other Waste			<u>.</u>	
Α	Other Waste recyclers				
$\overline{}$	of other waste				
$\overline{}$	BPCL	1	13500	2702.493	
	Used Oil-FACT	1	92	9.22	
$\overline{}$	TOTAL	2	13592	2711.713	
С	utilization) of other				
D	waste				
E	waste				

### C List of authorized Recyclers/Utilizers/Pre-processors/Co-processors of Hazardous Waste

S.No				Quantity Re	cycled/Utilized/Co-
	Name & Address of the Facility	Type of Hazardous Waste authorised for recycling/utiliztion/co-processing	Authorized Recycling/Utilizatio n /Co-Processing Capacity (MTA)	Imported	Other than imported
	79	88	89	90	91
l.	Hazardous Wastes				
Α	<b>List of Authorized Recyclers</b>	of hazardous waste			
	Petrolive Petroleums(Angel group),	Used Oil	3600KL		
	Neeleswar,Kasaragod	Waste Oil	3600KL		
	M/s CEE JEE Lubricants,	Used oil	7200		86.395
	IDA,Edayar	waste oil	5475		0.35
		Used oil	1200		289.462
	M/s Excel petrochemical	waste oil			
	BPCL KOCHI	Oil Sludge from ETP	13500	2702.493	
	FACT-CD	Used Oil	92	9.22	
	APJ REFINERIES PRIVATE	Used Oil	14600	0	3051.622
	LIMITED  NEW INDUSTRIAL  DEVELOPMENT AREA,  KANJIKODE, PALAKKAD	Waste Oil	8760	0	1220.909

		Used Oil	13.6	0	393.213
	SWARAJ BIO FUEL ENERGY	Waste Oil	6	0	110.832
	VIII/1256, NIDA, Kanjikode				
	West, Pudussery central				
	Village, Palakkad,				
	K.J. Lubes,				
	Mannuthy, Thrissur	Used oil	1278		
	Total		59324.6	2711.713	5152.783
В	List of Authorized Utilizers(	under Rule 9) of hazardo	us waste		
1					
2					
	Total				
С	List of Authorized Utilizers(	under captive utilization	)of hazardous waste		
1					
2					
	Total				
D	List of Authorized Pre-proce	essors of hazardous wast	<u> </u>		
	List of Authorized Pre-proce		ie I I		
2					
	<del> </del>				
	Total				
E	List of Authorized Co-proce	ssors of hazardous waste	e		

1												
2												
	Total											
11.												
"	Other Waste											
Α	List of Authorized recyclers	of other other waste										
1												
2												
	Total											
В	List of Authorized Utilizers(u	ınder Rule 9) of other w	aste									
1	CPS Steel India (P) Ltd.,	Iron and steel scrap	100000	0	0							
2	Prince Rollings (P) Ltd.,	Iron and steel scrap	100000	0	1841							
3	Prince Alloys (P) Ltd.,	Iron and steel scrap	100000	0	15024.016							
4	Prince TMT Steels (P)	Iron and steel scrap	100000	0	11679.975							
5	Beepath Castings (P) Ltd.	Iron and steel scrap	100000	0	11098.895							
6	Kairali Steels & Alloys,	Iron and steel scrap	100000	7989.745	0							
7	Minar Castings(P) Ltd.,	Iron and steel scrap	100000	14153.173	0							
8	Bhoopathi Steels (P) Ltd.,	Iron and steel scrap	100000	0	4147.521							
9	M/s. Krishna Steel	Iron and steel scrap	100000	0	0							
10	M/s. Paragon Steels (P)	Iron and steel scrap	100000	0	0							
11	<u> </u>	Iron and steel scrap	100000	0	11608.997							
12	P.P.S Steels (kerala) Pvt.	Iron and steel scrap	100000	0	16538							
13	Southern Ispat & Energy	Iron and steel scrap	100000	0	10105.597							
14	SMM Steel Re-Rolling	Iron and steel scrap	100000	0	14907.535							
15	South Malabar Steels &	Iron and steel scrap	100000	570.72	0							

16	Vanchinad Forgings Pvt.	Iron and steel scrap	100000	0	0
17	Kuttippulan Iron & Steel	Iron and steel scrap	100000	0	5810.56
18	Premier Alloys,	Iron and steel scrap	100000	0	0
	Total		1800000	22713.6	102762
С	List of Authorized Utilizers(	under captive utilization	n) of other waste		
1					
2					
	Total				
D	List of Authorized Pre-proce	essors of other waste			
1					
2					
	Total				
E	List of Authorized Co-proce	ssors of other waste			
2					
	Total				

#### D1 A Details on disposal of Hazardous Waste in Common TSDF(s)

S.N	Name and Address of the TSDF	Quantity in S the beginnin year (N	g of the	*Quantity Hazardous V received(N	Vaste	Quantity Hazardous V Disposed(I	Vaste VIT)	Quantit Stocks a end of year(N	t the the	Cumulative disposed by tl of financial ye	ne end			у	Design life of SLF(in years)
		Landfillable	Inciner able	For Landfillable	For incine ration	For Landfillable	l		Incin erabl e	SLF	Incine rator		Incine rator( Kcal)	Landfill able (MT/A)	
	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106
	KEIL,Com mon TSDF Project,A mbalame du,Kochi	10106 100		20504 020		47625 520		2225 62		F4040C 420				50000	20
	682303	10186.108	NIL	39684.039	NIL	47635.529	NIL	2235.63	NIL	518196.129	NIL	NIL	NIL	50000	20
-															
$\vdash$															

<sup>\*</sup>Including wastes received from other State/UT

### D1-B Details on disposal of Other Waste in Common TSDF(s)

		Quantity of *Quantity of		Quant	Quantity of Quantity in Stoo		in Stock	k Cumulative other			
S.Nd	Name	Stock	at the	Other Waste		Other Waste		at the end of the		waste disposed by	
	and					Quantit					
	Address					у	Quanti				
	of the			For	For	Landfille	ty				
	TSDF	Landfil	Inciner	Landfilla	incinera	d	Inciner		Inciner		
		lable	able	ble	tion	directly	ated	Landfillab	able	SLF	Incinerator
	107	108	109	110	111	112	113	114	115	116	117
1	KEIL	0	0	0	0	0	0	0	0	0	0
	_			_	_	_		_			_

<sup>\*</sup>Including wastes received from other State/UT

### D2 Details on Captive TSDF (S)

	Name and			Capacity	HW disposed during	g the year	Cumulative HW disposed till the end of financial year (MT)			
	Address of	,,	Incinerat							
. N	Captive facility	(landfillable/inci nerable/both)		Landfill (MT/A)	SLF	Incinerator	SLF	Incinerator		
	118				122	123	124	125		
	KMML., Chavara, Kollam	SLF	Nil	20000	14173.34	Nil	83352.87	Nil		
	IRE,Udhyoga mondal	Land fill	0	3000	0	0	0	0		
	HIL,Udhyoga mondal	Both	1132	480	0	2.89	473.12	not available		
	тсс	Land fill	0	3000	0	0	3000	0		
	FACT CD	SLF		12500M3	295.84	NA	*Fully Utilized	NA		
	Total		1132		14469.18	2.89	86825.99	0		

# D3 Details on Common TSDF(s) involved in disposal of Domestic Hazardous Waste and Fluorescent and Other Mercury containing lamps

Name of SPCB Year :

			Name and addres		Name and address	v	zardous Vaste osed (MT)	Qua	antity of	waste sto	ored (MT)
S .No		Qua ntity of dom estic HW rece ived	center from where such waste	Quantity of fluoresce nt and other mercury containin g lamps received	of collectio n centre from where such waste	Dom estic HW	mercury containin	waste	ntity of e stored MT)	other contain	escent and mercury ning lamps
							giamps	Occup ier	er	at the beginni ng of the	at the end of financial year
	176	177	178	179	180	181	182	183	•		-
	KEIL,Common TSDF Project,Ambala medu,Kochi	NA	NA	16.161	Directly received to KEIL		16.7	NA	NA	35.6	35.05
	ineuu,kuciii	INA	INA	10.101	to Keil		10.7	INA	INA	33.0	33.03



## KERALA STATE POLLUTION CONTROL BOARD കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്

Pattom P.O., Thiruvananthapuram - 695 004 പട്ടര പി.ഒ., തിരുവനന്തപുരം - 895 004

PCB/HO/PLA/AR/20/2019-2020

Dated: 08/09/2021

From

The Member Secretary

To

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

Sub: Annual report (AR) on Plastic Waste Management Rules, 2016 for the year 2020-21-Reg

Ref: Plastic Waste Management Rules, 2016

Sir.

The Annual Report (AR) on Plastic Waste Management Rules, 2016 for the period of 2020-21 is submitted herewith in prescribed format.

Yours faithfully

MEMBER SECRETARY

Encl: As above.

Copy to:

- The Regional Director, CPCB, Bangalore
- 2. All ROs and Dos
- 3. IT Cell
- 4. CA to Chairman
- 5. CA to Member Secretary

# STATE-WEIS STATUS OF IMPLEMENTATION OF BUSINE WASTE MANAGEMENT BULES, 2016, AS AMENDED 2018 AMENDAL REPORT FORMAL

12.1	j	BOARDS CHALLING THE STATE STAT
Plants Water	Change of the Ch	NAT YOUR THAN
thickness of less thickness of less than 50 mirrors	recolati (flute ec)	But of ringle on plants trees in the first plants completely in the first plants of th
Details of Plants Wyork Management (PWM) e.g. Calibration Sugregation. Disposal (Co. Provenies, Road recognistion, etc.) Bules (S.A. St.) Mark	Autor Place	Meterial C obestion Findings/977; Ricconnect Resource; Fandings/776; Recycloting photics (bord and soft photolog) are (desert by waste collectors) for expering in the Rule and netwise the South (Theorem School) (Comp. Revolts Company or produced (Theorem School) (Comp. Revolts Company of PWD made and & ATD WT of photological for SEAAI decert of the terring of PWD made and & ATD ATA Advance of the form of every visit before any part of the form of the Company of PWD made and the control of the form of the
Fattsdran girk ton m soup of Plants sarry bags (through Egenutive Sheles)	detack cape of weeklessies ov Exercise Order	Base on oughe on pleasing means by the Stam work under Verbs CLO (Mrs No. 27020 Mrs; Mrs; Mrs; Mrs; Mrs; Mrs; Mrs; Mrs;
į.	See See	III DE LE CONTROL DE LE CONTRO
Manufacturing Recycling About State (State 6.5)	111	Market American
	0-17 N	2
	11-111	Nad anything the control of the cont
Administration of the control of the	ant sampled	Chapte of plantics carrychaps carrychaps in the Stone and it in the Stone it in th
PANTELING, 2516, as seemeds at 2015/2016 121		Librarition insured for EPA implementation dated as 17.03.2020 in superstandard sweets.  Librarition insured to all horder to implement Haritims inclosed value 0.4, 800, 8006-2018 should be \$12.00.  Distriction from the \$1, 800, 8007-100.2014 should be pleased of hosses financial to all horder bearing in the first pleased pleased as 27.41.2021  Librarities from the officers bearing bearing one of hosses financial as 27.41.2021  Librarities as 27.41.2021  Librarities and to please south to obtain blear the manner dated of \$18.2020a.  Librarities are pleased by forther such to obtain blear the manner dated of \$18.2020a.  A Disposition housed to please south on obtain blear the manner dated of \$18.2020a.  The Board obtained prediction to \$1.07.2020a.  The Board obtained to the State Violation was obtained of the previous and examination to the State Violations with the addition of the please of the \$1.000.  The Board obtained and the the the please observation of the out \$1.000.  The state of the State Violations were determined to \$1.000.  The state of the State Violation was \$1.100.000, we at impaction of the out \$1.000.  The state of the State Violation was \$1.100.000, we at impaction of the out \$1.000.  The state of the State Violation was considered vertices they are the "the Violation of the state of the State Violation of the state of the state of the State Violation of the state of
Managered story of Passand story of Passand	Read reserve and larger tree (Balls 18)	Usepe of planels or requests of fideboot wrespects of fideboot was for the bootest in the COUNTRY NA. COUNTRY No.
A STATE OF THE PERSON NAMED IN	III.See IFCBPOOL (Bale III)	272 bad balls (96 series)
Separate O'Coppen	3	True of the control o

1

UNIVERSE !

6 menths (MCT, MRF, Harithaltarms sense are being act up) Column 4. Details of Flastic Waste Management Ex. Collection, Segregation & Disposal (Co-Processing, Rund construction, etc.) Rules (S&ri&9) (Artach Action Plan) 6 months 6 mooths 6 months 6 properties 6 months 6 months Dimetine 6 intinutes The proposal for EPR Registration is with the State Government for approval The proposal for EPR Registration is with the State Government for approval 93 (87 Municipality and 6 Cosporations) Gap between C.& D. 11338 126 915 TPA 68.26 12.75 29.04 210000 10.1 33.71 98.39 CHT 000 200 27 174 183 ğ Desirable Levels 131400 99 8 901 8 8 100 8 120053.874 TPA Current Status 98.92 30.96 31.74 87.23 62.30 91.3 I Percentage of GPs having facilities for collection of segregated waste Parcentage of Producers/beans/symers/importers which have engaged with UL he for PWM What is the quantity of plastic waste generated (Annual Report from Percentage of ULBs which have set-up of plastic waste management Status-of Unitrastion of plastic waste (Annual Report from VI pt.4) Percentage of Orama Panchayar which have setup of plastic waster No. of registered Producers/Immedowners/Importers as per Rules 9 Quantity of Plastic waste infliged in occycling Road Construction Percentage of ULAs having facilities for collection of negregated Percentage of ULBs which have set-up aystem for plastic waste. management with assistance of producers been set-up?Rule Capscity of registered plantic manufacturing units (TPD) Percentage of GPs having Mannial Recovery Facility Quantity of Plestic waste stithood in necycling (TPD) Peamber of regentered plastic manufacturing units Percentage of ULBs Material Recovery Facility Number of registered plantic waste recyclers hems minoagement system to per Rufe? Capacity of recycler (TPD) system as per Rule 6(2)7 Total No. of Punchayat &13 of PWM Rahes Total No of ULBs VI pt. 1,6)(TPD) WHILD 3(0) St. No. 2(b) 3(4) 344) 4(n) (He) 4(4) 5(c) 6(1) (9)9 7(0) 7(6) 3(9) 4(6) 3KK) 5(6) 3663 6+

7(c)	Quantity of waste co-processed in plantic waste in comme kilms	1390.5 TPA
7(4)	Quantity of waste utilized in production of RDF	MIL
1(0)	Quantity of plastic waste used in production of waste to oil.	3800
3/1)	Quantity of plastic waste used in other purpose (Plane specify)	390.
S(a)	No. of Units registered manufacturing compostable plastic	S units
8(6)	Total cencity of units manufacturing competible plastic	Well Wil
9(8)	No. of unsegistated plastic manufacturing or recycling units (Armost Report format pt.7)	Note
01	Whether local bodies have framed bye-taws [Rule 6(4)]?	Yell
	Whether plants carry hags & plants sheet of thickness (50marces beaned or not [Role 4(<)]?	Sumod
22	Has complete but on plastic rarry bags been imposed? (Annual Report format pt.3)	T A
147 397	Status of action taken on near-compliance of PWM Roles (Annual Report format pc.9).	The Board officers along with the officials of other departments conducted inspections for the strict implementation of single use plants; than in the State. Out of the 465 tospections conducted as on October 2020, 133 violations were observed. An amount of Re. 13.05,000- was imposed as fact to the violators and collected Re. 23.5,000- in fine Confination of humand items was also done for the utiful implementation of ban in the State. The Board inspected various shops not market places through our liftuids district on 04/05/2221 and 188,704 Kg of banned single use plastic items caught in the impection another inspection was carried out in Knahlkode city and fine of Re. 10,000- imposed on each violators.
2	Status of marking & labelling on plantic carry bags & multi layered prechaging (Rute 11)	Single use Plastic as banned in Kerala
22	Whether State Lavel Advisory Committee is constituted or nof? [Role: 16] If yes, details of member of mentings conducted in a year	Yes
91	Status of plinsing out of manufactum and use multi layered plastic which is non-regulable or non-energy meaverable or with	PVC flex has been banned in the State.
22		
1000	Details of Action taken to ensure dust plactic wante is not burnt (Rule- folg.))	Intersection given to local bodies
	Details of Action taken w.r.t. engagement of civil societies/groups with water pickers (Rule-6(f)	Local bodies with Harithali arms Senin associated with waste pickers
9	Details of Action taken w.r.t. creating awarness among stakeholders (Ruse-6(e)	Awarmeni Programmes were conducted at State, District and Institutional levels.

or St	20	o.	u g	**	w	142	144	SI No.	
143/138	8(1)(a)	6(Z)(g) &7(g)	(D-(1))	(9)	ŝ	4(d)	€	Rule	
The waste percursor shall not litter the playing waster	The waste generator shall take steps to minimize generation of plants waste at source	Ensuring that upon hurning of plastic waste does not take place	Every local body shall be responsible for development and setting up- of infrastructure for segregation, collection, storage, transportation, processing and disposal of the plastic weste either on its own or by cogaging agreeces or producers	Carry hugs made fours compostable plantics shall conform to the indian Standard. IS 17088-2008 tided as specifications for Compostable Plantics, as amended from time to time. The manufacturers or seller of compostable plantic carrybags shall obtain a certificate from the Central Pollution Cootfol Board before marketing or selling.	Sachets using plastic material shall not be used fir storing, packing or selling guidha, tobacco and pun musala;	Plastic sheet or like, which is not an integral part of multi-layered packaging and cover made of plastic sheet used for packaging, wrapping the commodity shall not be less than fifty microns in thickness except where the thickness of such plastic sheets impair the beautiful of the product.	Carry bag made of virgin or recycled plantic, shall not be less than fifty microns in thickness;	Provisions	provisions of PWM Rules, 2016, as amonded, 2018
91016	950 Ha		N 056	Sun of comp			1751	Violeter	
010 Hardakarını sənə 1997 MTFs əsəl 199 PBFs	950 Haridiakurma senus, 997 MCFs and 178 RRFs	Instruction given to localbodies	950 Haribakarma sesse, 997 MCEs and 178 RREs	Sun of compostable carry bug is subjected to judgement dated 06/02/2021 in WP(C)4291/2020	Barwid	Single use plastic is burned in Kernla	Single use plastic is humoef in Keralu	Nature of Violation	
Th and 178 27 Fee	CFs and 178 RRFs	albodies	CFs and 178 RAFY	ed to judgement data 91/2020.		rd in Kernik	of in Kenda	Action taken	

E	l5	=	5	•
	40)	56	150)	13620
Any other (Psece specify)	Retailers or street vendors shall not self or provide commodities to consumer in carry bags or plante sheet or multi-layered packaging, which are not manufactured and labellied or marked, as per prescribed under these rules	Every manufactures tangged in manufacturer of plantic to be used an raw material by the producer shall make an application to the State Publishen Control Board or the Publishen committee of the Union territory concerned, for the grant of registration or for the renewal of registration, in Form III.	Every person recycling or processing waste or proposing to recycle or process plantic waste shall make an application to the State Pollution Control Committee four grant of registration or answal of negistration for the recycling unit, in Form IL	Every producer or transformer shall, for the purpose of registration or for renewal of registration, make an application in Form-I to s. "The concerned State Pollution Capetrol Beard or Pollution Capetrol Committee of the Union territory, if operating one or two States or Union Territories", at "The Central Pollution Capitrol Board, if
Ni	Single use plastic is banned in Kernla	Number of registered manufacturers/ producers in the State-1348	Number of seguitored recyclers in the State- 187	The proposed for EPR under the consideration of Government

SI. No.	Column 11. Status of submission of Annual Report by ULBs to SPCB/PCC s[Rule 17(2)]	
1	Total No. ULBs	93
a	Total No. ULBs which have provided complete Annual report	66
2	Total No. of GPs	941
8	Total No. of GPs which have provided complete Annual Report	306
3	Any other local bodies (Please specify)	Nil
a	Any other local bodies which have provided complete Annual Report	Nil

#### Annexure - 1



# GOVERNMENT OF KERALA Abstract

Environment Department - Blanket ban on single use plastic in the state with effect from 01.01.2020- orders issued.

#### Environment (B) Department

G.O.(MS) No.6/2019/Envt.

Dated, Thiruvananthapuram: 27/11/2019

Read: 1. G.O(Rt) No.134/2018/Envt dated 12.12.2018

2. Expert Technical Committee Report.

#### ORDER

The consumption of single use plastic items and its irresponsible usage in the State, especially plastic carry bags, straws, plastic papers, sheets used for food packaging in hotels are mostly ending up in streams, rivers, other water bodies and road sides making even recycling impossible and has reached an alarming state posing environmental as well as health hazards. Identifying the threat, many States in the country have already imposed ban on these items and Government of India is exhorting the State Government to control the usage of single use plastic items. In the above context and to identify the plastic items to be brought into the ambit of ban, an Expert Technical committee was constituted as per the GO read as first paper above and the committee submitted report to Government as per the paper read above. The Expert Technical Committee recommended complete ban on some items and partial ban on certain other items. The Technical Committee report clearly identified the benefits and success rate of plastic ban in the States of Maharastra and Tamil Nadu where the consumption has been reduced by around 70% showing the positive impact of ban on these items.

- Government have examined the matter in detail. Being convinced of the need for banning single use plastic in the State, Government hereby issues the following order:
- Complete ban on single use plastic is imposed in the State with effect from 01.01.2020.
- a) No person or company or entity or industry shall manufacture, transport, store, sale

or use of any plastic products classified as, one-time use or other chlorinated plastic products as mentioned in the table below, from 1" January, 2020, within the territory of the State of Kerala.

SI. No.	Products
1	Plastic carry bags irrespective of thickness
2	Plastic sheets (sheet used as table spread), cling film
3	Plates, cups and decorative materials made of thermocol/Styrofoam
4	Single use plastic utensils like cups, plates, dishes, spoons, forks, straw, stirrer
5	Plastic -coated items like paper cups, plates, bowl, carry bags
6	Non woven bags, plastic flags, plastic bunting
7	Plastic water pouches, plastic juice packets
8	PET/PETE bottles of drinking water of capacities less than 300 ml.
9	Garbage bags (plastic)
10.	PVC flex materials
11	Plastic packets.

- 4. Plastic carry bags and other single use plastic products used for the following purposes shall be exempted:-
  - Plastic products manufactured exclusively for the purpose of Export against any export order in a plastic industry.
  - ii) Plastic products used for medical purposes and medical equipments.
  - (iii) Plastic products made from compostable plastic bearing a label 'compostable' and confirming to the Indian Standard IS or ISO 17088: 2008 titled as specification for "Compostable Plastic" as defined in the Plastic Waste (Management and Handling) Rules, 2016
- 5. All District Collectors, Sub Divisional Magistrates, Officers authorized by the Kerala State Pollution Control Board, Secretaries of all Local bodies and any other authority or officer authorized by the Central Government u/s 19 of the Environment (Protection) Act 1986, shall strictly monitor the implementation of these directions and file complaint before the appropriate judicial forum to take cognizance of the offense as per the provisions of the Environment (Protection) Act, 1986, in case of any contravention of any of these directions.
- 6. Any contravention of any of the provisions of these directions if found shall be

reported to the Sub Divisional Magistrate or Officer of the Kerala State Pollution Control Board in their respective jurisdictions. Any article manufactured, sold, transported, stored or used by any person, company, entity or industry if found in violation of these directions shall be seized forthwith and will be handed over to the Sub- Divisional Magistrates/Officer of the Kerala State Pollution Control Board, of the respective jurisdiction for taking appropriate action.

- 7. The Secretaries of all Local Self Government Institutions, Sub Divisional Magistrates and the authorized officers under Kerala State Pollution Control Board shall impose Rs. 10,000/- as fine to any manufacturer, shopkeeper, vendor, wholesaler, retailer, trader or any other persons who violates any of the provision of the above directions. If such person is found in violation of any of the above mentioned directions for the second time, it is a directed to impose a fine of Rs. 25,000. If the violation is found repeated by such person, the Secretaries of all the Local Self Government Institutions and the authorized officers under Kerala State Pollution Control Board are directed to impose a fine of Rs. 50,000/- and to issue closure order to such shop/manufacturer from carrying out any such activity thereafter in such premises.
- 8. Kerala State Beverages Corporation, KERAFED, MILMA, Kerala Water Authority are bound to comply with the principles of Extended Producers Responsibility with regard to the bottle and pouches sold through them which includes the payment towards taking the bottles and pouches back from the public.
- 9. MoEF vide notification dtd.08/04/2016 directed under Rule 11(i) of Solid Waste Management Rules 2016, that 5% of the plots in the industrial areas/parks should be set apart for waste recovery/recycling facility. This needs to be enforced in the State as well. For setting up such waste treatment plants, the land shall be provided at nominal cost.
- Industrial units manufacturing biodegradable plastic bags shall be encouraged by Department of Industries in lieu of ban on the plastic bags.

 Kerala State Pollution Control should take necessary steps to make the public aware of the Government Order.

# (By order of the Governor) Dr. ASHA THOMAS IAS ADDITIONAL CHIEF SECRETARY

To

- 1. The Secretary, Ministry of Environment and Climate Change, Govt of India
- 2. All the District Collectors
- 3. All the Department Heads
- 4. All Heads of Public Sector Units / Autonomous bodies
- The Secretary to Governor, Raj Bhavan, Thiruvananthapuram
- 6. The Secretary, Legislative Assembly, Thiruvananthapuram
- 7. The Secretary, Kerala Public Service Commission
- 8. The Registrar, Kerala Administrative Tribunal (including covering letter)
- 9. The Registrar, Kerala High Court, Ernakulam
- 10. The Registrar, Kerala Lokayuktha, Thiruvananthapuram
- 11. The Member Secretary, State Planning Board, Pattom, Thiruvananthapuram
- 12. The Secretary, State Information Commission, Thiruvananthapuram
- 13. The Registrar, Kerala/Calicut/CUSAT/Kannur/Mahatma Gandhi Universities
- 14. The Registrar, Kerala Agriculture University, Mannuthy, Thrissur
- 15. The Registrar, Sree Sankaracharya Sanskrit University, Kalady P.O. Ernakulam
- 16. The Registrar, Kerala University of Health and Allied Science, Thrissur 680596
- The Registrar, Kerala Vetinary & Animal Husbandry Science University, Pookode, Wayanad
- 18. The Registrar, Kerala University of Fisheries and Ocean Studies, Panangad, Kochi
- 19. The Member Secretary, Central Pollution Control Board
- 20. The Member Secretary, State Pollution Control Board
- 21. The Managing Director, Clean Kerala Company
- 22. Executive Director, Suchitwa Mission
- 23. CIPET (Institute of Plastic Technology), Kochi
- 24. Kerala Plastic Manufacturers Association
- All Depts in Government Secretariat (to give direction to all institutions under their control)
- 26. General Administration (SC) Department
- Stock File/Office Copy (Envt.B2/198/2018-Envt)

#### Copy to:-

- Private Secretary to Chief Minister
- 2. Private Secretary to Chief Secretary
- 3. PA to Principal Secretary

Forwarded/By Order

Section Officer





#### Abstenct

Environment Department- Blus of the use of Compostable carry bags-Alternative materials that can be used as a substitute for the bassed single use plastic items - - Orders issued

#### ENVIRONMENT(B) DEPARTMENT

#### G.O.(Ms)No.2/2020/ENVT Dated, Thiruvarianthapurain, 27/01/2020

- Read I Press release dt 6.1.2020 of the Director, Department of Environment & Climate change
  - 2 G.O(MS) No 7/2019/Envt dt 17.12.2019
  - 3 G.O (MS) No.6/2019/Envt dt 27.11.2019

#### ORDER

Vide orders read as 2., 3. above, Govt have imposed a ban on the manufacture, storage, transport and sale of single use plastic items in the State of Kerala w.e.f 1.1.2020 and anyone found to be violating the Government Order will be fixed up to Rs 50000/- and cancellation of license.

After the issuance of the above Orders, State Government received numerous representations about the use of carry bugs and requesting to provide/list out afternative materials that can be used as a substitute for the banned single use plastic items. State Government had in GO cited 3, above, ordered that compostable materials having the specified standard can be used as a substitute for the banned plastic items. However it is noticed that fake compostable products resembling the original in tenture and tint, and difficult to distinguish at first look, are flooding the markets negating the impact of the plastic ban and defeating the very intention of Government of ridding the State and water bodies of single use plastic.

State Government have examined the whole matter in detail. Cloth and paper carry bags had been used till recently in the State to buy goods and groceries. These serve as reasonable substitutes for the banded plastic carry bags. A number of micro and small scale units have now started production and supply of such plastic free carry bags. The public response to the ban has been overwhelming and they have started carrying their own bags to the market. Government therefore issued clarification vide reference 1, cited.

Government hereby issue the order further clarifying the banned items. It is recommended to use the following alternative non-plustic /eco-friendly materials as a substitute for the banned single use plastic items.

A	Both Branded and Non-branded compostable alternatives/substitutes are banned for the following items	Recommended non-plastic substitutes
	Carry bags irrespective of thickness, made of plastic     Sheets made of plastic, for single-use spread on tables in function venues, spread on plates while serving food.	Cloth, paper bags
	Plates, cups and decorative materials made of styrofoam or Thermocol	Paper spread
	<ol> <li>Single-use utensils like cups, plates, dishes, spoons, forks, straw, stirrer, made of plastic</li> </ol>	Glass, ceramic, steel, cups, plates, paper and plant-based decorations
	5. Non-woven bags, plastic flags, plastic bunting	Glass, ceramic, steel, wooden cups, plates, dishes, spoons, forks, straw, stirrer
	<ol> <li>Plastic packets for packing fruits and vegetables</li> </ol>	Cloth and paper bags, flags and bunting
	7. Plastic drinking water pouches	
	PET/PETE drinking water bottles less than 500 ml	Paper and cloth bags
	20	
Di.	P 122 6 131	Banned, no substitute
В	Banned items for which compostable substitutes can be used	Recommended Compostable substitute

Plastic-coafed paper cups, plastic-coated paper plates, plastic-coated paper bowls, plastic-coated paper bags

Paper cups with PLA-coating, certified by CPCB and IS: 17088 compliant.

Garbage Bags, including for hospital use, made of plastic

Compostable plastic garbage bags, certified by CPCB and IS: 17088 compliant.

# Compostable materials should also adhere to the following guidelines -

- The compostable plastic products shall have approval from Central Pollution Control Board (CPCB) and the certificate issued by CPCB shall be valid at the time of manufacture/sale/stocking/marketing of the product/s.
- The compostable plastic materials shall bear details of the company that
  manufacture, agency that market, the material specification, date of manufacture,
  batch number, CPCB approval details with license number and validity etc, in the
  form of QR code.
- The product shall bear the title 'this is a purely compostable plastic product' written in both English and Malayalam.
- 4 The product shall dissolve in Dichoromethane (Methylene dichloride) and this shall be indicated in the packaging bay/cover/sheet material, as a preliminary test for identification. This shall be printed on the product as This product dissolve in

#### Dichloromethane (Methylene dichloride).

(By order of the Governor)
DR. USHA TITUS
PRINCIPAL SECRETARY

#### To:

- 1. The Secretary, Ministry of Environment and Climate Change, Govt of India
- 2. All the District Collectors
- 3. All the Department Heads
- 4. All Heads of Public Sector Units / Autonomous bodies
- 5. The Secretary to Governor, Raj Bhavan, Thiruvananthapuram
- 6. The Secretary, Legislative Assembly, Thiruvananthapuram
- 7. The Secretary, Kerala Public Service Commission
- 8. The Registrar, Kerala Administrative Tribunal (including covering letter)
- The Registrar, Kerala High Court, Ernakulam
- 10. The Registrar, Kerala Lokayuktha, Thiruvananthapuram
- 11. The Member Secretary, State Planning Board, Pattom, Thiruvananthapuram
- 12. The Secretary, State Information Commission, Thiruvananthapuram
- 13. The Registrar, Kerala/Calicut/CUSAT/Kannur/Mahatma Gandhi Universities
- 14. The Registrar, Kerala Agriculture University, Mannuthy, Thrissur
- 15. The Registrar, Sree Sankaracharya Sanskrit University, Kalady P.O. Ernakulam
- The Registrar, Kerala University of Health and Allied Science, Thrissur 680596
- 17. The Registrar, Kerala Vetinary & Animal Husbandry Science University,

#### Pookode, Wayannd

- 18. The Registrar, Kerala University of Fisheries and Ocean Studies, Panangad, Kochi
- 19. The Member Secretary, Central Pollution Control Board
- 20. The Member Secretary, State Pollution Control Board
- 21. The Managing Director, Clean Kerala Company
- 22. Executive Director, Suchitwa Mission
- 23. CIPET (Institute of Plastic Technology), Kochi
- 24. Kerala Plastic Manufacturers Association
- All Depts in Government Secretariat (to give direction to all institutions under their control)
- 26. General Administration (SC) Department
- 27. Stock File/Office Copy (Envt. B2/198/2018-Envt)

#### Copy to:-

- 1. Private Secretary to Chief Minister
- 2. Private Secretary to Chief Secretary
- 3. PA to Principal Secretary

Forwarded /By order

Section Officer





#### Abstract

Environment Department- Ban on single use plastic items in the State w.e.£ 1.1.2020 -further clarifications-Orders issued

#### ENVIRONMENT(B) DEPARTMENT

G.O.(Ms)No.4/2020/ENVT Dated, Thiruvananthapuram, 16/02/2020

- Read 1. G.O(MS) NO 111/2019/LSGD dt 29.8.2019
  - 2. G.O(MS) No 6/2019/Envt dt 27.11.2019
  - 3. G.O(MS) No 7/2019/Einst dt 17,12,2019
  - 4. G.O(RT) 128/2019/Envt dt 31.12.2019
  - 5. G.O(RT) No.6/2020/Envt dt 17.1.2020
  - 6 G.O(RT) 9/2020/Envt dt 23.1.2020
  - 7. G.O(MS) NO. 2/2020/Envt dt 27.01.2020

#### ORDER

- 1 State Government had imposed a blanket ban on sale, manufacture, transport and sturage of single use plastic items in the State w.e.f. 1.1.2020 vide G.O. read as 2nd paper above. It was also ordered that compostable/bio-degradable materials having specification as stipulated in the Plastic Waste Management Rules 2016 could be used as a replacement/substitute for the banned single use plastic. KSPCB was authorized vide GO read as 4th paper above to do tests and verify the degradability of the compostable product and submit recommendations to Government.
- 2. It is now noticed that large quantities of fake compostable carry bags are entering the market circumventing the plastic ban. The public and shop owners are generally unable to distinguish them, defeating the very intention of Government to get rid of plastic from the State. In the above context, State Government vide G.O read as 7th paper above have issued further clarification listing out the alternative materials that could be used as substitutes for banned single use plastic items. Accordingly carry bags whether made of compostable materials or other materials were banned and instead only cloth or paper bags are allowed to be used as carry bags.
- 3. In the case of hoardings, Government have already issued detailed order vide
- G .O read as 1st paper above banning the use of Flex/PVC materials and replacing them with Cloth or Poly Ethylene materials only. It was clearly mentioned in the order that plastic coated cloth cannot be used. But plastic coated cloth like polyster/nylon/korean cloth continue to be used for heardings which cannot be allowed.
- Meanwhile Government have been receiving numerous representations from various quarters seeking clarifications/suggestions/recommendations on the banned items. In

order to consider the various issues raised in these representations and to review the general situation after the plastic ban, a Task Force was constituted vide G.O read as 5th and 6th paper above. The Task force met on 28.1.2020 and 4.2.2020 and considered all the issues that were raised after the plastic ban.

- Based on the decisions taken by the Task Force, Government hereby reiterate and issue further clarification/order as follows:
- There is a complete ban on carry bags even those made of compostable materials in the State and only cloth and paper bags free from plastic coating should be used as carry bags.
- Plastic/plastic coated leaves used as plates are banned from the date of this order
   All product attached straws and other such items that are part of branded product packaging are exempted from the ban and they come under the purview of EPR.
- iv) Plastic supling bags are banned. It should be substituted with non plastic materials. For Grow bags, compostable materials can be used.
- v) Garbage bags made of Compostable materials alone should be used for collecting/segregating biomedical waste.
- vi) In the wake of fake compostable products entering the market, random checks shall be done on such products (products that are allowed to use compostable materials as per GrO(MS)No.2/2020/Envt dt 27.01.2020) and the authenticity/biodegradability of the products shall be tested in the labs of NBST, BST and KSPCB authorized labs.
- vii) Compostable products should bear the details of the company that manufacture it the agency that market it, the material specification, date of manufacture, batch no, CPCB approval details with license no, and validity etc in the form of QR code. The product shall bear the title 'this is a purely compostable product' written in English and Malayalam. The product should dissolve in Dichloromethane (Methylene dichloride) and this shall be indicated in the packaging as a preliminary test for identification.
- viii) With regard to the heardings and usage of alternative materials in place of banned Flex/PVC heardings the following guidelines are issued
- 1. The use of plastic coated cloth material for hoarding is strictly banned and only cloth (plastic free), paper (plastic free) and Poly Ethylene material should be used for hoardings as a substitute of flex/pvc hoardings. While printing, it should carry the logos 'recyclable, pvc free' expiry date, name of the printing unit and printing no. The details of the consumer must be registered in the shop. For banners carrying programme details, they shall be deemed to expire after the programme date and those banners/hoardings having no expiry date are deemed to expire after 30 days and will have to be removed by the installing agency.
- All the printing units in the State should publicize that only compostable materials will be used for printing purpose and this must be exhibited.

- The Registrar, Kerala Agriculture University, Mannuthy, Thrissur
- The Registrar, Sree Sankaracharya Sanskrit University, Kalady P.O, Ernakulam
- The Registrar, Kerala University of Health and Allied Science, Thrissur 680596
- The Registrar, Kerala Vetinary & Animal Husbandry Science University, Pookode, Wayanad
- 18. The Registrar Kerala University of Fisheries and Ocean Studies, Panangad, Kochi
- 19. The Member Secretary, Central Pollution Control Board
- 20. The Member Secretary, State Pollution Control Board
- 21. The Managing Director, Clean Kerala Company
- 22. Executive Director, Suchitwa Mission
- 23. CIPET (Institute of Plastic Technology), Kochi
- 24. Kerala Plastic Manufacturers Association
- All Depts in Government Secretarial (to give direction to all institutions under their control)
- 26. General Administration (SC) Department
- 27. Stock File/Office Copy (Envt.B2/198/2018-Envt)

#### Copy to:-

- 1. Private Secretary to Chief Minister
- 2. Private Secretary to Chief Secretar
- PA to Principal Secretary

Forwarded /By order

1.1

Section Officer

 Those found to be violating the Government order will be liable to pay fine as specified in the G.O read as 1st and 2nd above, eventually leading to cancellation of license

> (By order of the Governor) DR. USHA TITUS PRINCIPAL SECRETARY

To:

- 1. The Secretary, Ministry of Environment and Climate Change, Govt of India
- 2. All the District Collectors
- All the Department Heads
- 4. All Heads of Public Sector Units /Autonomous bodies
- 5. The Secretary to Governor, Raj Bhavan, Thiruvananthapuram
- 6. The Secretary, Legislative Assembly, Thiruvananthapuram
- 7. The Secretary, Kerala Public Service Commission
- 8. The Registrar, Kerala Administrative Tribunal (including covering letter)
- 9. The Registrar, Kerala High Court, Ernakulam
- 10. The Registrar, Kerala Lokayuktha, Thiruvananthapuram
- 11. The Member Secretary, State Planning Board, Pattorn, Thiruvananthapuram
- 12. The Secretary, State Information Commission, Thiruvananthapuram
- 13. The Registrar, Kerala/Calicut/CUSAT/Kannur/Mahatma Gandhi Universities





1/5 4

# Abstract

Environment Department - Ban on single use plastic(disposible plastics) in the State of Kerala w.e.f 01/01/2020 issued vide G.O.(Ms)7/2019-Envt dated 17/12/2019 - Modification - order issued

## ENVIRONMENT B DEPARTMENT

G.O.(Ms)No.2/2021/ENVT Dated, Thiruvananthapuram, 28/02/2021

Read I G.O.(Ms) 6/2019-Envt dated 27/11/2019 2 G.O.(Ms) 7/2019-Envt dated 17/12/2019

#### ORDER

As per para 11 of the Government Order read as 2nd paper above branded items/products are excluded from the ambit of the blanket ban on single use plastic in the state. This is further clarified that these products will not include those items banned as per para 8 of the Government Order read as 2nd paper above. The Government Order read as 2nd paper above stands modified to the above extend only.

(By order of the Governor)
SHEEBA B
JOINT SECRETARY

To:

- 1. The Sceretary, Ministry of Environment and Climate Change, Govt of India
- 12. All the District Collectors
- 3. All the Department Heads
  - A 4 8 Manufactor Division Comment lane / A consummer landing

# All Heads of Public Sector Units / Autonomous bodies

# J. TO SUMMI CAUMAR. Ray Dravan, Theruvananthapuran

- 6. The Secretary, Legislative Assembly, Thiruvananthapuram
- 7. The Secretary, Kerala Public Service Commission
- 8. The Registrar, Kerala Administrative Tribunal (including covering letter)
- 9. The Registrar, Kerala High Court, Emakulam
- 10. The Registrar Kerala Lokayuktha, Thiruvananthapuram
- 11. The Member Secretary, State Planning Board, Pattorn, Thiruvananthaparam
- 12. The Secretary, State Information Commission, Thiruvarianthapuram
- 13. The Registrar, Kernta Calicut/CUSAT/Kannur/Mahatma Gandhi Universities
- 14. The Registrar, Kerala Agriculture University, Mannuthy, Thressur
- 15. The Registrar, Sree Sankarucharya Sanskrii University, Kalady P.O., Emakulum
- 16. The Registrar, Kerala University of Health and Allied Science, Thristar 680596
- The Registrar, Kerala Vetinary & Animal Husbandry Science University, Pookode, Waynnad
- 18. The Registrar Kerala University of Fisheries and Ocean Studies, Panangaid, Knehi
- 19. The Member Secretary, Central Pollution Control Board
- 20. The Member Secretary, State Pollution Control Board
- 21. The Managing Director, Clean Kerala Company
- 22. Executive Director, Suchitwa Mission
- 23. CIPET (Institute of Plastic Technology), Kochi
- 24. Kerula Plastic Monufacturers Assueintion
- All Depis in Government Secretariat (to give direction to all institutions under their control)

- 26. General Administration (SC) Department
- 27. Stock File/Office Copy (Envt.B2/198/2018-Envt)

#### Copy to:

- 1. Private Secretary to Chief Minister
- 2. Private Secretary to Chief Secretary
- 3. PA to Principal Secretary

Forwarded /By order

-





#### GOVERNMENT OF KERALA

#### Abstract

Environment Department -Implementation of provisions in Plastic Waste Management Rules 2016- Task Force Reconstituted- orders issued.

### Environment (B) Department

G.O.(Rt)No.37/2021/ENVT Dated, Thiruvananthapuram, 04/05/2021

Read 1

GO(Rt) No. 6/2020/Envt dated 17.01.2020.

2

DO letter No. 17/06/2021/HSMD dated 25/03/2021 from the Secretary, Government of

India, MoEF&CC.

#### ORDER

As per Government order read as first paper above a Task Force under the Chairmanship of Principal Secretary, Environment Department was constituted for addressing issues related to the implementation of the blanket ban on single use plastics in the state.

- 2.As per the D.O letter read above, the State Government has been directed to constitute a special Task Force under the Chairmanship of the Chief Secretary for taking measures to eliminate single use plastic in a mission mode.
- 3.Government have examined the matter in detail and are pleased to reconstitute the Task Force as detailed below, for the effective

implementation of the provisions in the Plastic Waste Management Rules 2016.

1. Chief Secretary

- Chairman

2. Additional Chief Secretary

- Member

(Environment Department)

3. Principal Secretary, (Industries Dept)

- Member

4. Director (Urban Affairs Directorate)

- Member

5. Director, Directorate of Environment & Climate Change-Member

6. Chairman, Kerala State Pollution Control Board - Member

4. The Task Force shall prepare a Comprehensive Action Plan with focus on implementation of provisions of Plastic Waste Management Rules, 2016, and building strong public movements around this issue with wider public participation with in a period of one month..

(By order of the Governor)
SHARMILA C
JOINT SECRETARY

To

The Chief Secretary

The Additional Chief Secretary, Environment Department

The Principal Secretary, Industries Department

The Director, Directorate of Urban Affairs

The Chairman, Kerala State Pollution Control Board

The Director, Directorate of Environment & Climate Change

The Principal Accountant General (A&E/Audit), Kerala, Trivandurm.

Web & New Media Department (for uploading in the portal)

Stock file/Office Copy

Forwarded /By order

Section Officer



RERALA STATE POLLUTION യോള സാസ്ഥാന മലിനിക്കണ നിയന്ത്രണ ബോർഡ് CONTROL BOAR DISTRICT OFFICE, 3rd FLOOR, ZAMORIN'S SQUARE, LUNK ROAD, KOZHIKODE - 673 002

www.keralapcb.org

PCB/KKD/DO/TECH-GEN/1039/2019

Date : 07.10./

From

The Environmental Engineer

To

The Member Secretary

Head Office

Thiruvananthapuram

Sub:- Details of unregistered plastic manufacturing units-reg

Ref:- Email from rulespcb@gmail.com dated 29.09.2020

Madam,

As per the reference cited above, the details of unregistered plastic manufacturing units in Kozhikode As per the district is attached herewith. Direction has been issued on 8/10/2020 to all unregistered plastic units to district is a district is a district in the carliest of the carliest. Copy enclosed. This is for favour of your kind apply and obtain Boards consent to operate at the earliest. Copy enclosed. This is for favour of your kind information and further necessary action.

Yours faithfully

SHABNA

KUSHE SHEKHAR SHABNA KUSH

Environmental Engineer

Copy to:-

The Chief Environmental Engineer Regional office, Kozhikode

21 2 2 2 2 3 03 03 02 00 2 2 4 1	LIST OF UNREGISTERED PLASTIC UNITS IN KOZHIKODE DISTRICT  Si  no Name of the unit Address Activity  Manufacture of metallised yam or gimped yam; rether teased or cont	AATHMA GROUP RALUSSERY-673612 sheathed with rubber or plastics	CHENNAMANGALAM, CHORODE, VATAKARA- 673106	3 Aspirnova Techno Plast Kunnamanglam-673571	C.P. UPPER STITCHING KINALUR, BALUSSERY WORK	CUBIX MOON LIGHT BALUSSERY, S FOOTCARE KOZHIKODE-673612	6 DOHA INTERIORS PEROD	G.M TYRE RETREADINGS Maruthomkara road kuttiadi working rubber or piastics or for the manufacture of products of p
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1	1

KINALUR, BALUSSERY- and plastic. This class includes manufacture of rubber footwear, plastic & PVC, canvas-cum-rubber/plastic footwear etc. including sports footwear.	USSERY-	KSIDC,	Manufacture of footwear made primarily of vulcalized or moulded rubber PLOT NO.41, KSIDC, IGC-and plastic. This class includes manufacture of rubber footwear, plastic & PVC, canvas-cum-rubber/plastic footwear etc. including sports footwear.	ARUSSALAM CARAVOOR LICUT,KERAL DEVELOPMENT	ndi Paramb, n, Kozhikode-	Manufacture of machines for extruding, drawing, texturing, manufacturing or cutting man-made textile fibres, materials or yarns and machinery for pump, pooklad working rubber or plastics or for the manufacture of products of these materials.	MINDA P.O. DE-673613 Manufacture of other plastic products
KINALUR, BALU 673612	KINALUR, BALUS 673612	PLOT NO.15, IGC KSIDC, KINALUR-673612	PLOT NO.41, KSIDC 673612	5/3421-C19,3RD FLOOR,DARUSSALAM COMPLEX,MAVOOR ROAD,CALICUT,KERAL	A. 673004 Kaniyamkandi Paramb, Eranhipalam, Kozhikode	Near petrol pump,pookkad	14/4, NANMINDA P.O, KOZHIKODE-673613
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RAPTIBE ME	MUNDUBALLE	
CARE COMPANY PVT		Manufacture of footwear (excluding repair) except of vulcalized or moulded rubber or plastic. This class includes manufacture of leather shoes, leather sandals and chappals, leather-cum-rubber/plastic cloth sandals and chappals made by and or by any proce
25 S.N. Foot wears	Iduvattil thazham, Perumanna-673019	Manufacture of footwear (excluding repair) except of vulcalized or moulded rubber or plastio. This class includes manufacture of leather shoes, leather sandals and chappais, leather-cum-rubber/plastic cloth sandals and chappals made by and or by any proce
26 UNIT SANTHOSH POLY 27 PACKS	SANTHOM STITCHING KOORACHUNDU, SANTHOSH POLY Kuttichira, South Beach Road, Koxhikode-673001	Manufacture of footwear made primarity of vulcalized or moulded rubber and plastic. This class includes manufacture of rubber footwear, plastic & PVC, canvas-cum-rubber/plastic footwear etc. including sports footwear, PLASTIC GUNNY BAG
28 Smartek footwear Pvt	28 Smartek footwear Pvt Ltd Feroke, Chungam-673631	Manufacture of footwear made primarily of vulcalized or moulded rubber and plastic. This class includes manufacture of rubber footwear, plastic & PVC, canvas-cum-rubber/plastic footwear etc. including sports footwear.
29 BODY WORKS TK PACKING 30 SOLUTIONS	AYANCHERI Engapuzha, Oppo.Village Office-673586	Manufacture of bodies (including cabs) designed to be mounted on motor vehicle chassis, bodies for vehicles without chassis and unit construction bodies; bodies for passenger vehicles, lorries and special purpose vehicles; bodies of metal, wood, plastics or combination of these or other material
31 TONY BAGS	POONOOR UNNIKULAM KOZHIKODE-673574	POONOOR UNNIKULAM Manufacture of travel goods of plastics (suitcase, vanity bags, holds11stinilar articles)
32 TRINITY POLYMERS	No.	PI ACTIO CUE

MANAPPURAM, PO.ORKATTERI, PO.ORKATTERI, NATAKARA  NIT, Kozhikode-673601  EKAROOL  KOYILAMDY, ROZHIKODE-673574  ROZHIKODE-673574  PROZHIKODE-673574  ROZHIKODE-673574  ROZHIKODE-673574  ROZHIKODE-673574  ROZHIKODE-673574  ROZHIKODE-673574  ROZHIKODE-673574  ROZHIKODE-673574  ROZHIKODE-673574  Prozhikode  Kunamangalam, Rozhikode  Kunamangalam, Rozhikode  Rozhikode  Rozhikode  Rozhikode  Rozhikode  Rozhikode  Rozhikode  Rozhikode			Vayanattu Padam, Kannanchery Kozhikode-	
MANAPPURAM, PO.ORKATTERI, VATAKARA  MIE Chathamangalam, NIT,Kozhikode-673601  EKAROOL  KOYELAMDY, ROZHIKODE-673574  P SDF BUILDING, IGC M KINALUR, KOZHIKODE- an 673612  Nallalam, Kozhikode 673612  Nallalam, Kozhikode 67298D, Jayanthi Road, Nallalam, Kozhikode 67298D, Jayanthi Road, Nallalam, Kozhikode 67208D, Payanthi Paramba, Rozhikode Moolath Paramba,	2	Odayam Plastics	673003	
MIE Chathamangalam, NIT, Kozhikode-673601  EKAROOL  KOYILAMDY, ROYILAMDY, ROZHIKODE-673574 PPI ROYILAMDY, ROYILAM	4	VIJAYA BAG WORKS	MANAPPURAM, PO.ORKATTERI, VATAKARA	Manufacture of travel goods of plastics (suitease, vanity bags, holdalls and similar articles)
VISMAYA  VEC  VEC  VEC  VEC  VEC  VEC  VEC  VE	200	VINAYAKA POLY PACK	MIE Chathamangalam, NIT,Kozhikode-673601	Manufacture of other plastics in primary forms (including mixtures of synthetic rubber and natural rubber or rubber like gum e.g. balata, in primary forms)
VKC UPPERSTITCHING CAPE BUILDING, IGC KINALUR, KOZHIKODE CAL-Ahammed Waste Plastic Bottle Unit CAL-Spanthi Road, Nallalam, Kozhikode Karipa Plastics Kunamangalam, Kozhikode	(1)	6 VISMAYA		Manufacture of footwear made primarily of vulcalized or moulded rubber and plastic. This class includes manufacture of rubber footwear, plastic & PVC, canvas-cum-rubber/plastic footwear etc. including sports footwear.
Al-Ahammed Waste Plastic Bottle Unit 6/298D, Jayanthi Road, Karipa Plastics Kunnamangalam, Kerala Plastics Kozhikode Kozhikode Kozhikode Kozhikode Kozhikode		VKC UPPERSTITCHING	JILDING, IGC UR, KOZHIKODE-	Innufacture of footwear made primarily of vulcalized or moulded rubber of plastic. This class includes manufacture of rubber footwear, plastic & /C, canvas-cum-rubber/plastic footwear etc. including sports footwear.
6/298D, Jayanthi Road, Nelialam, Kozhikode Kunnamangalam, Kozhikode Moolath Paramba,	41.	Al-Ahammed Waste		sstic Chips
Kunnamangalam, Kozhikode Mooiath Paramba,	3.7		ıd.	inded Plastics
noles Moolath Paramba,			galam,	stic grinding scrap
Kaipaini, Mayoor		soles		Plastic granules



©: General 0471-2312910, 2318153, 2318154, 2318155 Chairman 2318150 Member Secretary, 2318151 E-mail: ms.kspcb69eav.in FAX: 0471-2318134, 7518157 web: www.keralapcb.nic.in

## 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
- 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

House-to-house collection: composter, Biobins, pipe compost, ring compost, compost pits, Material Collection facilities, Resource. Material collection and recovery facilities are provided. (Details

Segregation: attached as Annexure I for Urban Local Bodies).

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	Community level-7	Community level-287,	Nil
	composting plants -		Household level-	
	2(Large); 12(Small)		21,550	
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	Remarks
			Generation (MW)	
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

### ${\bf Disposal\ of\ solid\ waste\ (number/names\ of\ towns/capacity):}$

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	Groundwater	Leachate	Compost	VOCs
		air		quality	quality	
1.	Windrow composting plant, Kozhikode		attached as	Analysis Report attached as Annexure III		
2.	Windrow Composting Plant, Brahmapuram		attached as	Analysis Report attached as Annexure III		

### Status of Action Plan prepared by Municipalities

Total number of Corporations/municipalities: 97

Number of Action Plan submitted: Being submitted

### **ANNEXURE** I

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

The Government of Kerala has taken efforts to implement the Solid Waste Management Rules, 2016 in the State. There are 6 Corporations, 87 Municipalities and 941 GPs in the State. The Kerala State Pollution Control Board (KPSCB) issued repeated directions to all local bodies to ensure compliance of the Solid Waste Management Rules, 2016. 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
Centralisedplant	Windrow composting plants(large)	2	Ernakulam     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. Kunnamkulam 7. Guruvayoor (2 TPD) 8. Chittur -Thathamangalam (4 TPD) 9. Ottappalam (5 TPD) 10. Palakkad (4 TPD) 11. Thaliparambum 12. Payyannur
CommunityLevel	Vermi composting plants(Small)	7	<ol> <li>Attingal (0.25TPD)</li> <li>Thodupuzha</li> <li>North Paravur (1 TPD)</li> <li>Chavakkad (1.5 TPD)</li> <li>Manjeri (0.5TPD)</li> <li>Koothuparambu</li> <li>Mattannur (5 TPD)</li> </ol>
	Aerobins	406	
	Biogas plants	287	
	Bobbins in flats	500+	Thiruvananthapuram,     Ernakulam,     Trissur
	Material Collection Facility	685	
	Resource recovery facility	77	
House holdLevel	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 cites 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

acre at Njaliyanpar ambu  Njaliyanpar ambu  Awarded to Begacy waste or Zonta Infratech Private Limited for the construction of Waste to May 2020 and Energy Plant  Started the work of clearing of legacy waste or Zonta 3rd March, 202 The clearing we dumpsite on 4th of Waste to May 2020 and Energy Plant  Started the work of clearing of legacy waste or Zonta The clearing we dumpsite on 4th of Waste to May 2020 and Energy Plant  Started the work of clearing of legacy waste or Zonta The clearing we dumpsite on 4th of Waste to May 2020 and Energy Plant	Kozhikode Njaliyanparambu
Njaliyanparambu corporation land)12.67 acre at Njaliyanpar ambu Work of clearing of legacy waste or Zonta Infratech Private Limited for the construction of Waste to Energy Plant at Njaliyan parambu. A las been Infratech Pvt Lt.	Njaliyanparambu  corporation  land)12.67 acre at Njaliyanpar ambu  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 Limited was formed. The Concessionai re has informed  Infratech Pvt Lt started the work of clearing of legacy waste of 3rd March, 2020 dimpsite on 4th May 2020 and 40% of legacy waste in Zone I has been removed.  The work is in progress at the site.
M/s.Malabar Waste Management Limited was formed.The Concessionai re 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 establishwas	Financial Closure for the project has been achieved — SBI has agreed for a debt funding of Rs 146 crores. Consent to

Clearing of groundfor the plant is undergoing. Land development works are undergoing. Alternate road has been constructed onthe 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 tothe site is nearing completion. 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

	·	1	T		
2	Kannur	Kannur	(Govt. Land)	Blue Planet	Agreement has
	Chelora	Corporation	9.7 acres at	Kannur	been executed
			Chelora	Waste	with M/s Zonta
				Solutions	Infratech Pvt Ltd,
				Private	the selected bidder
				Limited was	on 21st October
				formed to	for carrying out
				take up the	the rehabilitation
				developmen	of MSW dumpsite
				t of the	atthe site.
				project. Waste	Actad Cornetary
				Characterisat	Asked Secretary Kannur Municipal
				ion study	Corporation to take
				was	immediate steps
				Contuctedby	with the
				SPCB	Contractor to
					expedite the
				SLAC	works for
				directed MD,	
				KSIDC &	rehabilitation
				Secretary,	of MSW
				Kannur	dumpsite at
				Municipal	Chelora.
				Corporation	
				to take	
				immediate	
				steps to	
				execute the	
				Lease	
				Agree	
				ment	
				and	
				Conces	
				sion	
				Agreemen	
				t for the	
				project.	
				KSIDC has	
				completed	
				the tender	
				process and	
				the finaloffer	
				along with	
				details of the	
				contractor,	
				draft	
				agreement to	
				be executed	
				with the	
				Contractor	
				and the	
				technical	
				proposal	
				submitted by	
				the	
			0	Contractor	
			8	has been	

forwarded to Kannur Corporation on 07th August 2020 for further proceedings. **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 theSecretary Corporation for execution. Further a stake holder meetingwas 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 authorizin g the Secretary Kannur Corporati

on to execute the concessio n agreement has not been passed. Concessi on agreemen t can be executed only on receiving land to KSIDC. The concension arire has reported that the field studies including waste characterizat ion andwaste quantification studies, as part of DPR preparation will be commencing next week. Govt vide GO(R) 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				
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3.	Palakkad Kanjikode	Palakkad	(Land taken	MoU with KSIDC for clearing the existing legacy waste at dump site inChelora.  Detailed waste characterizati on of study of dumpsite at Chelora was done by the Pollution Control Board. SLAC directed the Board to submit final study  Blue Planet	The Concession
3.	raiakkad Kanjikode	Palakkad Municipality	(Land taken overfrom Kerala State Electricity Board Ltd. in advance possession)  15 acres at Kanjikode	Blue Planet Palakkad Waste Solutions Private Limited was formedto 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 & Bradstreetfor 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 tobe executed with M/s.Zonta Infratech Pvt Limited is vetted

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				Management	Corporation's
				project with	Standing Counsel
				a Wasteto	and the same will
				Biogas	be placed in the
				facility of	next Council
				200 TPD	meeting for
				processing	approval.
				capacity.	CI AC 1' 1
				DDD	SLAC directed
				DPR was	the Secretary
				evaluatedby the Committee and	Kollam Corporation to
				it has been	Corporation to
				modified and	take necessary steps to ensure
				final DPR	either the
				submitted to	Contractor follow
				LSGD	the tender
				Concenssionair	conditions or
				e hastaken	cancel the present
				steps to submit	tender and go for
				applications to	re-tender
				the concerned	immediately.
				departments	ininicalatory.
				and agencies	Again the project
				for statutory	has been
				approvals and	retendered by the
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5	Thiruvananthapur	Thiruvananthapur	Land not	KSIDC re	Tendering in
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resolved that the following details shall be Obtained from Consortium before the opening of the financial bid -Testimonial s of technology use, operating videos of the wte 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. Directed State Pollution Control Board to evaluate the Technical proposal submitted by the Consortiu mfor confirming

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				uniqueness	
				and	
				authenticit	
				y of the	
				proposed	
				technology.	
6	Ernakulam	Kochi corporation	(Govt.	KSIDC was	KSIDC floated e-
	Brahmapuram	1100m Corporation	land) 20	authorized to	tender to identify a
	Di willing wi will		acres at	take	suitable agency for
			Brahmap	immediate	the rehabilitation
			uram	steps to float	of MSW dump site
			uram	an RFP for	at Brahmapuram.
				the selection	KSIDC submitteda
				of suitable	proposal to
				concessionai	constitute a
				re to setup	Technical
				Waste to	Evaluation
				Energy plant	Committee for
				at	technical
				Brahmapura	evaluation of the
				m. The last	bids. Evaluation of
				date for	technical bid is in
				submission	process.
				of bids has	process.
				been	LSGD issued
				extended to	
				14th	directions to Kochi
				September	Corporation to
				2020.	examine the quantity
				2020.	of legacywaste
				TD 1 1 1	assessed and rate
				Technical	quoted by the bidder
				bids	in consultation with
				submitted by	PCB within 30 days
				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	
			4.5	Committee	
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the tender conditions to prevent one particular company being awarded more than 3 WtE projects on PPPmode at a particular project development time, so as to ensure more competition and also easier financial closure.  Idukki Munnar Muncipality 2 acres of land at munnar Muncipality 2 acres of land at munnar of M/s Al Bucheeri General Transport Est, Pathanamthit ta, M/sAl Bucheeri Grange Transporting Est UAE and M/s Organic Recycling Systems Pvt Ltd, Munbai on 19th August 2020.  The Committe ee observed	conditions to
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				Consorti	
				um 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	
				evaluationof	
				the Bid	
				the Diu	
8	Wayanad	Wayanad	0.5 acres at	Work	
	Sulthan Bathery	Muncipality	Sulthan	dropped	
	•		Bathery		
9	Thrissur	Thrissur	Identified	Thrissur	Proposal submitted
		corporation	land at	Corporation	to Suchitwamission
			Ollookkara	identified	for sanction
			village		
			village	land at	
			village	Ollookkara	
1			village	Ollookkara village in	
			vinage	Ollookkara village in Thrissur	
			vinage	Ollookkara village in	
			vinage	Ollookkara village in Thrissur district.	
			vinage	Ollookkara village in Thrissur district. Vide GO	
			vinage	Ollookkara village in Thrissur district.  Vide GO (Rt) No	
			vinage	Ollookkara village in Thrissur district.  Vide GO (Rt) No 111/2020	
			vinlage	Ollookkara village in Thrissur district.  Vide GO (Rt) No 111/2020 /LSGD	
			vinlage	Ollookkara village in Thrissur district.  Vide GO (Rt) No 111/2020 /LSGD dated	
			village	Ollookkara village in Thrissur district.  Vide GO (Rt) No 111/2020 /LSGD dated 13/01/2020	
			Village	Ollookkara village in Thrissur district.  Vide GO (Rt) No 111/2020 /LSGD dated 13/01/2020 State	
			Village	Ollookkara village in Thrissur district.  Vide GO (Rt) No 111/2020 /LSGD dated 13/01/2020	
			Village	Ollookkara village in Thrissur district.  Vide GO (Rt) No 111/2020 /LSGD dated 13/01/2020 State Government	
			Village	Ollookkara village in Thrissur district.  Vide GO (Rt) No 111/2020 /LSGD dated 13/01/2020 State Government has accorded	
			Village	Ollookkara village in Thrissur district.  Vide GO (Rt) No 111/2020 /LSGD dated 13/01/2020 State Government has accorded sanction to Thrissur	
			Village	Ollookkara village in Thrissur district.  Vide GO (Rt) No 111/2020 /LSGD dated 13/01/2020 State Government has accorded sanction to	
			Village	Ollookkara village in Thrissur district.  Vide GO (Rt) No 111/2020 /LSGD dated 13/01/2020 State Government has accorded sanction to Thrissur Municipal	
			Village	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	
			Village	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	

				Ollookkara Village in Thrissur district and to hand over thesame on lease basis to KSIDC for the development of the project  Secretary, Thrissur Municipal Corporatio n to report the status ofprice negotiation	
10	Malappuram	Malappuram munciplaity	8.09 acres of land at Kurumbat hoor village in Tirur Taluk	negotiation done with the owners of the land identified.  KSIDC reported that Land Board has issued orders to District Administrati on Malappuram to handover 8.09 acres of land at Kurumbatho or 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 Du	impsites locations				
Sl.	Location	District	Status			
No:			Status			
1	Vilappilshala	Thiruvanthapuram				
2	T7 1	77. 11	M/s. Zigma Global			
2	Kureepuzha	Kollam	Environ Solution			
			Pvt. Ltd. started			
			biomining			
			Tendering in			
		**	progress forthe			
3	KottayamVadavathoor	Kottayam	disposal of non			
			biodegradable waste			
4	Sarvodayapuram	Alappuzha	Action being taken.			
			Bidder has been			
			identified and action			
5	Duchmanum	Ernakulam	is being taken to			
3	Brahmapuram	Effiakulani	award the work to			
			successful bidder.			
			Drone survey has			
			been done to			
			quantify the dumpsite.			
			Some area is			
			reclaimedand			
			construction of			
			stadium is			
6	Laloor	Thrissur	progressing and			
			remaining area is			
			taken up for			
			biomining with Clean			
			Kerala mission and			
			KIEL. Proposal			
			under consideration			
			of			
			Suchitwa Mission.			

Location	District	Status
BPL Koottupatha, Palakkad	Palakkad	Under Consideration
		M/s Zonta Infratech Pvt Ltd started the work of clearing of legacy waste on 3 <sup>rd</sup> March, 2020.
Njeliyamparambu,Calicut	Kozhikode	The clearing work of legacy waste resumed at the dumpsite on 4 <sup>th</sup> May 2020 and approximately 15000 cum of legacy waste was cleared from the project site as on 12 <sup>th</sup> May 2020. Some disruption due to Covid and Monsoon.  Machineries have been installed and resumed clearing of dumpsites.
Chelora	Kannur	Work awarded to Zonta Infratech Private Limited. Corporation directed contractor to expedite the work.
Thalassery	Kannur	-
	BPL Koottupatha, Palakkad  Njeliyamparambu, Calicut  Chelora	BPL Koottupatha, Palakkad  Njeliyamparambu, Calicut  Chelora  Kannur

	Other Du	impsite 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. Proj.ect 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 /Municipalit y	District	Name of the City/Town	Population as per 2011 Census	Projected populatio n (2021)	Quantity of Waste generated based on	D2 Colle	ntage of 2D ection waste)	No of collect ors	As rep	orted	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 Manage ment	Site identified for Sanitary land fill	Dump sites identified	Authorizat ion Applied	Authoriza tion granted
	Thiruvant hapuram	Thiruvanthapu ram Corporation	958000	996204	nonulation 448	19.4	90	25 Service provider s	Not properl y docume nted and submitt ed	242.23	222	De centralized units	Biobin 109 of 15 TPD	Biogas Plant - 18 Nos of 18.4TPD Aerobin (Thumboorm uzhi 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 ew-tendered 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 qualitified 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
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 aencies for statutory approvals and clearances.	MCF-185	Regional landfill site identified at Kochi	Zigma solutions have been selected for carrying out biomining and they have started the work		Yes
3	Ernakula m	Kochi Corporation	677000	703999	317	89.8	59.8	1200	308	215	304	Centralized treatment - Windrow composting at Brahmapur am	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(Retenderin g 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 biodegrada ble managed- 6.71TPD Non biodegrada ble 0.7TPD Non biodegrada ble 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 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 Ollookkara Village in Thrissur district and to hand over the same on lease basis to KSIDC for the development of the project. The matter is being placed before the Council for approval and further proceedings.	Material collection facility-8 Resource recovery facility-3	Regional landfill site identified at Kochi	1 (Laloor)	No	No
5		Kozhikode Corporation	550000	571934	257	49.72	95	645	98	95	140	Non- biodegrada ble- 0.75TPI	D Biogas plant at public utility place- 4Nos Aerobins-28	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.		Regional landfill site identified at Kochi	1(Njaliyanpa rambu) Biomining started		Yes	Yes

Sl.No Corporation /Municipalit District	Name of the City/Town		Projected populatio n (2021)	Quantity of Waste generated based on population	Percen D2 Colle (Dry v	2D ection	No of collect ors	As rep		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 Manage ment	Site identified for Sanitary land fill	Dump sites identified	Authorizat ion Applied	Authoriza tion granted
6 Kannur	Kannur Corporation	2,32,486	370197	167	63.5	89.3	44	85	75	70	Land Filling	Not reported	Trenching Biomethanati 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)M oU with KSIDC for clearing the existing legacy waste at dump site in Chelora	Yes	Under processi ng
7 MUNCIPALIT Thiruvana thapuram	Attingal	37648	39150	16	48.5	100	44	16	16	16	Centralised and decentralised systems	Biogas Plant(Dhee nabandhu) 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 wih capacity of 0.25 TPD	Biogas Plant 407 Nos - 0.85TPD	Windrow composting plant, vermic composting plant, and biogas plant	MCF-1; RRF-1	Yes	!	l 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	Nil	No	No
10	Varkala	40048						4.8	4.8		Decentralised treatment		Biogas Plant - 1 No - 100Kg	S-1 1 1	Nil	MCF-3; RRF-1	level At regional	Yes -one		Yes
	Varkana	10010	11010		31	70	10	1.0	1.0		Decemanised dealinem	pipe compost; 82 compost pits	Brogus Films 1100 Tooks			, Ku 1	level	Tes one		
11 MUNCIPALIT Kollam IES	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		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	NII	NII	pipe compost-600 ring compost-5000 pot compost 70 biogas plant -26		1 MCF 1RRF 1Mini MCF plastinc Shredding unit and bailing unit	No	No		
13	Punalur	46702	46702	19	90	80	127	3.5	3.5		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)		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

Sl.No /	Corporation Municipalit y	District	Name of the City/Town	Population as per 2011 Census	Trojecteu	Quantity of Waste generated based on population	Percenta D2I Collect (Dry wa	D tion		As reported y localbodie		Waste treatment	Institutional level SWM Plants	Community Level SWM Plants	Household Level SWM Plants	Centralised	Non-Bio Degradable Waste Manage ment	Site identified for Sanitary land fill	Dump sites identified	Authoriza ion Applied	t Authoriza tion granted
14			Kottarakara	30055	42050	17	66	20 5	S8HKS 1	ton 7.2	7.2	For biodegradable waste aerobic bin compost units at community level and biocomposter bins at household level . 1 MCF, IRRF plastic shredding and bailing units for processing non bio degradable waste.Doo to door collection through harithakarmasena and given to clean kerala company		Aerobic bin compost units	Bucket compost,Biobin,Biogas plant		1 MCF, 1 RRF, Plastic shredding unit and bailing unit	No	No	yes	
15 N	MUNCIPALIT ES	Pathanamt hitta	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		16+1 (1 agency)	1.5 1.	5	Decentralis ed treatme	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 biodegrada ble waste and 0.35TPD of non biodegrada blewaste managed	Biogas Plant - 2 Nos Aerobin-5	Biogas plant - 400 Compost pits- 520	Nil	MCF-3; RRF-1	At regional level	Nil	Yes	Under processi ng
18			Thiruvalla	52883	54992	22	60	0	55	1.	4 1	2 Decentralis ed treatment	4.79TPD of biodegrada ble waste and 1.5TPD of non biodegrada ble waste		Biogas Plant - 170Nos Pipe Compost 2360 Nos	Nil	MCF-1	At regional level	Nil	No	No
	MUNCIPALIT ES	Alappuzha	Alappuzha	174176	241219	96	95	80	76	46 3	6	Aerobic composting Plastic Shredding	Not given	Aerobic Compost (Thumboorm uzhi Model) - 29 units	Biogas Plant - 1964 Nos.Pipe compost- 1263 Nos. Biobin- 6000 Nos		0 MCF 23; RRF-3 ;Plastic Shredding unit 3 units		Nil	Yes	
20			Chengannur	23456	24393	10	11.12	60	25	0.5 0.8	55	3 Decentralis ed treatment	Not given	Aerobic Compost (Thumboormuzhi Model) - 12 bins at 1 location		Nil	MCF-1	At regional level	Nil	Yes	Under processi ng
21			Cherthala	45827	47658	19	73.76	80	35	0.6 0.	6	6 Decentralis ed treatment	Not given	Aerobic Compost (Thumboorm uzhi 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 processi ng
22			Haripad	15588	16211	6	88	6	30	1	1	5 Decentralis ed 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 processi ng
23			Kayamkulam	68634	75861	30	65	45	9	5	3	Aerobic Compost	0.06 TPD is managed	Biogas Plant Aerobic compost (Thumboorm uzhi 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 processi ng
24			Mavelikara	264121	27516	11	80	25	30	3.2 2.	5	Composting	Not given	Aerobic Compost (Thumboorm uzhi 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 processi ng
	MUNCIPALIT ES	Kottayam	Changanassery	127987	133102	53	0	F	Haritha Karma Sena		3 2	0 Decentralis ed 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 (Thumboorm uzhi mode) - 24 bins Biogas plant: 28 nos		Nil	MCF-1 RRF - 1	At regional level	1	No	No

Sl.No Corporation /Municipality		Name of the	2011 Census	populatio n (2021)	Quantity of Waste generated based on population	Percent D2 Collec (Dry w	CD ction vaste)	No of collect ors	As repo	rted v	antity of waste occessed (TPD)	Waste treatment technology used	SWM Plants	Community Level SWM Plants	Household Level SWM Plants	Centralised	Non-Bio Degradable Waste Manage ment	land fill	Dump sites identified	Authoriza ion Applied	tion
27		Ettumanoor	26423	27479	11	10	56.9	62			41	Decentralis ed treatment	Not given	Biogas Plant at location with capacity of 500kg	Ring Compost - 450 Nos Bucket Compos 150 Nos	t-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		Biogas plant - 1400 Nos Pipe Compost- 2300 Nos	Nil	MCF-1 RRF - 1	At regional level	1 (Vadavathoo r)	No	No
29		Pala	123000	127915	51	34	94	14	2	7	26	Decentralis ed treatment		uzhi Model) - 6 bins at 1	Compost - 26 Nos Biodigester Pot - 4 Nos Ring Compost - 59 Nos Bucket Compost 170 Nos Pipe Compost 5162 Nos	s Nil	MCF-1	At regional level	Nil	No	No
30		Vaikom	23234	24162	10	0	0	64			3	Decentralis ed treatment	Aerobic compostin g (Thumboo rmuzhi mode) 4 bins at 2 locationsBiogas 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 MUNCIPALIT	I Idukki	Kattapana	42646	44350	18	79.4	100	81	3.24	3.24	11	Decentralis ed 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	Vermi compost - 7bin at 1 location	Biogas Plant - 928	Nil	MCF- 2 RRF 1	At regional level	Nil	No	No
33 MUNCIPALIT	I Ernakula m	Aluva	22428	23312	9	43	24		7.05	6.14 NA	1	NA		Centralised plant at Brahmapura m	Pipe compost - 43 Kitchen bin - 10	Centralised plant at Brahmapuram	RRF - 1		Nil	No	No
34		Angamaly	33465	34802	14	0	]	Nil	0.5	0	4	Decentralis ed treatment	Aerobins-2	Biogas plant - 1No	Pipe compost - 979 Biogas - 504 Nos		RRF-2Nos; MCF- 1;Biodigest er bins- 300Nos SWAP shop-1 No.	level	Nil	No	No
35		Eloor	31468	32726	13	0		81	0.87	0.87	5	Decentralis ed treatment		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		Not No	ot ven	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		Koothattukula m	17253	18659	7	0.1	10	19	1	1	1	Decentralis ed treatment	Not given		Biogas 16	Nil	Nil	At regional level	Nil	No	No
38		Kothamangala m	114574	119153	48	3.8	10	2	6	6	14	Decentralis ed treatment	Not given		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		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	Decentralis ed 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	Decentralis ed treatment	(Thumboo rmuzhi model) -1 bin at 1	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	Decentralis ed treatment	0.75 TPD of non of biodegrada ble waste is managed		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	Decentralis ed 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

Sl.No /	Corporation Municipalit y	District	Name of the City/Town	2011 Census	n (2021)	Quantity of Waste generated based on population	D2 Colle (Dry v	2D ection waste)	ors	As repo	odies proce (TP	Waste treatment technology used	SWM Plants	Community Level SWM Plants	Household Level SWM Plants	Centralised	Non-Bio Degradable Waste Manage ment	land fill		Authorization Applied	tion granted
45			Thripunithura	92522	96219	38	8 87.1	85.9	64 1		ot een	14 Decentralis ed treatment	Aerobic composting (Thumboornuzhi model) - 2 bins at 2 locations with capacity 14 units & 18 units. Biogas plant - 1no with100 kg capacity	1.62TPD of biodegradable e waste is managed 0.124 non biodegradabl e waste is managed. Thumbur muzhi model at Anapparamb u -41 ward	Biogas Plant - 300 Nos Biodigester Pot - 125 Nos Bucket Compost - 2400 Nos Pip Compost 10000 Nos	Centralised plant at Brahmapuram e	Material Collection Facility - 1 No (Non Operation)Plastic Shredding Machine - 1 No Baling Machine - 1 No	At regional level	Nil	No	No
46 N	MUNCIPALITI	Thrissur	Chalakkudy	49525	51504	21	100	100	54 7	.31tpd 7.	31tpd	10 Decentralis ed treatment	Plants(50k g capacity) 5 SWM	Thumbur muzhi model at Anapparamb u (41 ward ) Vermicompo sting 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	5 36.2	51	31	4 N	ot .	14 Decentralis ed treatment	Not given	Vermi composting 1.5TPD	Pot Compost - 548 Nos Biogas Plant - 61-	4 Nil	MCF-1; RRF-1	At regional		1 No	No
48			Guruvayur	70012	72810	29	24.5	100	58		ren 4	15 Decentralis ed treatment		Bio organic management	Nos Biogas Plant- 400 Composting units-2545		MCF-1; RRF-1	level At regional	Nil	No	No
															Compost pits- 1899 Kitchen Gardening			level			
49			Irinjalakuda	62532	67542	27	7 48	86	130 4	TPD 31	PD	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 Segragated 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 31	PD	Composting Shredding	20 Aeribic bins	20 Aeribic bins	Aerobic Compost (Thumboo rmuzhi Model )-6 bins at 3 locations with capacity of 10 kg/day	y	Seggregated Non biodegradable waste collected through Haritha karma senaand it is forwarded to MCFand RRF.SCrap hand over to scrap dealers and rejects handover to Clean Kerala LTD	NIL	NIL	Yes	NO
51			Kunnamkulam	54071	56232	22	2 100	100	56	3	3	10 Decentralis ed treatment	Aerobic compost (Thumboo r Mozhi model)	composting plant 1.889 TPDBiodegradabl e waste managed, 0.81 TPD Non biodegradabl e 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 llocal bodies for waste processing.	MCF-1; RRF-1	At regional level	Nil	No	No
52			Vadakkancher y	15674	16300	7	7 34.3	100	40	1.6 N	I	9 Decentralis ed treatment	1.93TPD waste managed( Bio&Nonb iodegradab le)	Not Given	Compost units- 1918, Biogas- 100,Compost pits-4471	Nil	MCF-2; RRF-1	At regional level		1 No	No
53 N	MUNCIPALITI	Palakkad	Cheruplassery	30730	31958	13	3 60	77	22 HKS	0.2	1.2	4 Decentralis ed treatment	0.427 TPD Non biodegrada ble waste managed.	1.43 TPD Nonbiodegra dable waste managed.	Pipe Compost 1000 Nos Biogas Plant - 200 Nos Composting units-1050	Nil	MCF-1; RRF-1	At regional level	Nil	Yes	Under processi ng
54			Chitttur-	33000	34319	14	1 51.7	11.6	56 Nos	2		7 Decentralis ed treatment	bins at 5 locations	Not given	Ring Compost - 239 Nos Composting	Aerobic Windrow Composting Plant -1 bin	MCF-7; RRF-1		Nil	Yes	Under .
55			Thattamangala m Mannarkadu	39463	41040	16		83.7	58		0	6 Decentralis ed treatment	Not given	Not given	units-1407  Pipe compost- 40; biogas plant -20;	with capacity 3 Tons/day Nil	MCF-1	level At regional	Nil	No	processi ng No
			- Farmarkadu	37 <del>1</del> 03	71040	10		03.7				o deament	110t given		Biocomposter- 315		Inci i	level			110
56			Ottapalam	53792	55942		57.7		56	1.4		8 Decentralis ed 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 Decentralis ed 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. Asper annual report 2.1 Hectre of land is available.	MCF-7; RRF-1	At regional level	1(BPL) Koottupatha)	Yes	Under processi ng

	Corporation Municipalit y	District	Name of the City/Town	Population as per 2011 Census	Projected populatio n (2021)	Quantity of Waste generated based on population	Colle	ection	NO Of		ported albodies	Quantity of waste processed (TPD)	f Waste treatment technology used	Institutional level SWM Plants	Community Level SWM Plants	Household Level SWM Plants	Centralised	Non-Bio Degradable Waste Manage ment	Site identified for Sanitary land fill	Dump sites identified	Authoriz ion Applied	tion
58			Pattambi	28632	29776	12	2 0	60	20	1		3	Decentralis ed treatment	Not given	Open composting in trench	Biogas plant- 69	Nil	MCF-1; RRF-1	level	Nil	Yes	Under processing
59			Shornur	43533	45273								Decentralis ed treatment	Not given	Biobin	Biogas 276	Nil	MCF-1; RRF-1	level	Nil	No	No
60 N	MUNCIPALITI	Malappur am	Kondotty	28794	29945	12	2 79.7	60	160	0.12	0.12	2	4 Decentralis ed 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									1 Segregation		Nil	Bio Bin and Bio Gas	Nil			Nil	Nil	Nil
62			Malappuram	68088	79645				5 24			10	YES	NIL	NIL	.Biogas plant,Bio binBucket compst	nil	,HKS		Nil	Nil	nIL
63			Manjeri	97102	112000	45	30	43.7	7 16	30	100		Bio degradable = Bio Bin , Pipe Compost Pig Farms no Bio degradable Segregation and Trasfer 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	9 0		29	0.3	0.3	8	8 Decentralis ed treatment	Not given	Not given	Biogas Plant - 71 Nos. Pipe compost-135; Biocomposter- 75	Nil	Temporar y	At regional level	Nil	No	No
65			Parappananga	71239	79888	32	2 98	80	90	0.5	0.5	20	Ring compost,kitchen bin,pipe	bio gas plant,ring	composting	Ring compost,kitchen bin,pipe	nil	collecting through	na	na	no	na
			di										compost,biogas,bio pot, MCF,MINI MCF, Non bio degradable send for recycling	compost		compost,biogas,bio pot, MCF,MINI MCF, Non bio degradable send for recycling		Harithakarma sena,send for recycling to clean kerala co.				
66			Perinthalmann a	49723	55290	22	2 35	40	52	10	10	10	0 MCF,MRF,Vermi composting,Wintro composting,Bio gas plant,Bio	nill	MCF,BIO GAS	BIO BIN,BIO GAS	NILL	Collecting through Harithakarma sena	na	na	yes	no
67			Ponnani	90491	93370	37	7 48	52	2 49	0.5	0.5	22.5	bin 5 composting	28 Aerobic units	MCF and RRF	Composting & Bins	Nil	1RRF,2MCFs	0	-	0 No	NA
													Bio gas plants Aerobic units Bottle booths MCFs, Mini MCFs RRF			Bio gas plants		6Mini MCF Bottle booths Plastic bailing				
68			Thanoor	69534	77053	31	1 52	20	)_	0.5	0.5	21.5	Ring Compost, MCF	Nil	MCF	Ring Compost	Nil	Collecting trrough Haritha karmasena send for recycling to clean kerala company	0		0	0 NA
69			Thiroorangadi	56632	63220	25	5 30	10	28	0.25	0.25	14	4 Ring compost,kitchen bin,pipe compost,biogas,, MCF,MINI MCF, Non bio degradable send for recycling	Biogas plant	Composing	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	5 80	100	38	4	1	/	4 Bio degradeble waste-bio	bio gas plant	composting	composting & bio methenation units	1 with 90 ton capacity	send for recycling	na	na	na	na
				50050	02110				, 50				methenation & composting,Non bio degradeble -send for recycling through forword linking agency.		Composing		, was so on expens	through for word linking agency				
71			Valanchery	40318	45306	18	8 0	C	13	1	1	1	l biogas plant ring compost bio bin house hold level	bio gas	nil	biobin, ring compost,biogas plant	nil	HKS	nil	nil	yes	nil
72 N	//UNCIPALITI	Kozhikod e	Faroke	57074	60000	24	4 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 0		72 (Haritha	0.6	0.6	7	7 Decentralis ed treatment	Not given	Not given	Not given	Nil	MCF-1	At regional level	Nil	Yes	Under processi ng
74			Koyilandy	71873	74745	30	59.7	7.9	Karma Sena 100	10	2.5	11	I Decentralis ed treatment		Thumboor muzhi model composting - 11 unit 2. biogas plant - 500 kg per day	Portable biogas 250 nos; 2. pipe, ring; and vermicompost -1933 nos	Nil	MCF-2 MRF-1; Plastic shreding machine -2 bailing	At regional level	Nil	No	No
																		machine-1				
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	NI,L	NIL	YES	
						l	1		1				1	1	30	1	I	1			1	İ

Sl.No Corpo		District	Name of the City/Town	Population as per 2011 Census	Projected populatio n (2021)	Quantity of Waste generated based on population	D2 Colle	ntage of 2D ection waste)	No of collect	As rep	oorted lbodies	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 Manage ment	Site identified for Sanitary land fill	Dump sites identified	Authorizat ion Applied	t Authoriza tion granted
76		-	Payyoli	23576	24518		0		Nil	0.25	0.25	3 Dec	centralis ed 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 Dec	centralis ed treatment	Not given	Not given	Ring Compost- 320 Nos	Nil	Not given	At regional	Nil	No	No
78		-	Vadakara	75295	77325	31	72	60	63	7	7	con	ogas plant, biobin, pipe mpost, ring compost, bucket mpost, aerobic compost	Thumburmuzhiu	Thumboormuzhi	Biogas plant, biobin, pipe compost, ring compost, bucket compost	NA	YES	NIL	NIL	YES	NIL
79 MUNCI	PALITI W	Vayanad	Kalpetta	31580	32842	. 13	26.6	81.5	32	6	6	4 Dec	centralis ed treatment	0.508 TPD Biodegrad able waste managed,0.561 TPD Non biodegrada ble waste managed.	1.3 TPD Biodegradable waste managed, 0.869 TPD Nonbiodegra dable waste managed.	0.4 TPD Biodegradable waste managed, 0.11 TPD Nonbiodegrad able waste managed	8 Acres of land is available in Vellaram kunnu Kalpetta.	MCF-1; RRF-1	At regional level		1 Yes	Under processi ng
80		-	Mananthavady	59497	62450	25	40	47	26		.5TPD	CO	JCKET DMPOST,BIOGAS,PIT DMPOST,	NIL	NIL	NIL	NIL	Not given	NIL	YES	NIL	NIL
81		=	Sulthanbathery	23333	3 24265	10	0	0	23	0.5	9.1		centralis ed 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 MUNCI	PALITI K	Kannur	Anthoor	28212	32693	13	11	0	28	9 TPD	9 TPD	and 1M	stic shruding I bailing MCF,1 RRF Imboormuzhi	collectors school bin	0	ring compost BIOGAS KITCHEN BIN		) (	) nil	nil	NIL	NIL
83		=	Iritty	40369	48501	19	65	30.71	40	2.5	2.35	0 win	ndrow compost	collectors school bin	mcf	ring compost	windrow compost	(	nil	nil	yes	not granted
84		ŀ	Koothuparamb	32404	38000	15	100	90	64	2 TPD	2 TPD	2 TPD CO	OMPOSTING & BAILING	1	0	(	)	) (	NIL	NIL	NIL	NIL
85		=	Mattanur	47078	60000	24	90	90	39	5	5		ndrow compost unit,plastic uding and bailing	collectors @school bin	Mini M C F in all wards	pipe compost,ring compost,vermi,biogas	windrow compost unit,plastic shruding and bailing	plastic shruding and bailing	NIL	NIL	NO	NOT GRANTED
86		=	Panoor	58916	68751	28	51.5	25.7	52	0.1	0	0 NA	A	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		iling ,Shredding and umboormuzhi composting	NA	NIL	Ring compost, Biogas plant, Kitchen bin	1 MCF, RRF, Thumboormuzhi	Bailing & Shredding	nil	nil	Applied	applied
88			Sreekantapura m	33489	37000	15	95	90	30	2	2	coll	ng compost,calender waist lection door to door looding platic shruding and ling	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	plas	stic shruding	NA	NIL	biobin,biopot,pipecompost	NIL	plastic shruding	NIL	NIL	applied	NA
90		,	Thaliparambu	44827	7 47965	19	85	39.6	34	3.5TPD	3.5TPD	shre	ndrow compost, plastic edding unit, mboormuzhi, 1MCF,1 RRF	NA ;	Thumboormuzhi		water treatment plant, windrow compost, plastic shredding unit, thumboormuzhi, 1MCF,1 RRF	MRF, RRF	NIL	NIL	NA	NA
91 MUNCI	PALITI K	Kasaragod	Kanhangad	73536	5 76475	31	80	65	36	2.5	2	con	astic shredding, bailing, ring mpost, kitchen bin, mboormuzhi, 2 M C F, 1 F	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	2 47502	19	90	85	30	10	10	8 Pla	astic shredding, bailing, ring mpost, 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 BURAL LOCAL BODIES

C Jases	TAXCT SOCAL BOBY	WARIIS	Siest Homodule	NIO-DO	Sandard Sandard	He pt methodosaum	Dibbo	Normalisticacos (IIII)- likal	To all beautie for which around break freezess	N of relability	Ni disposing to service/basi system	To dispessing to to extract the extract to extract the extract to extract the extract to extract the extract to extract the extract to extract the extract to extract the extract to extract the extract to extract the extract to extract the extract to extract the extract to extract the extract to extract the extract th	Gasting of Water ground (FFE)	Quality of Warts Channel (CPI))	Quantity of Water respect (TPID)	Specify of Warts processed in Compacting Silve (SPS)	Quantity of Waste, proceeding Homotherathe (ET)
	T Setwar	- 0	Jata .	100	-	636	- 16		- 44								dan tentan
	94 Amelic	16.	11044	.50	47	1923		-	100	- 310			- 84			- 6	
J 1	Scholasteres	. 34	499	49	. 6	50	- 80	- 10	41	100	-		- 11		- 9		
20	6 Withinstone		1208	40	- 1	(199	M.		- 13		-	- 2	52	84	- 2		
4 1	Distribles .		13438	306		207	- 11	F90	- 4				1037	- 51	_		
3 1	w (day) and	18	143/38	- 18 - 1	-	.2534	19		100	-		0	935		9	- 4	
1 0	a Chanacoste	195	7620	100		384	100	9	-	_	-	-	0.1	1165	5.003	- 4	2
3	w EASISTEEN	10	5363	100	- 0	257		· a	- 4	-	-	- 0	838	0	- 4	- 8	9
	A Publisher	78	9429	· V		190	. 0			-	-	n .	3.00	9.4	9.376	- 2	
1	Delconspins		10081	- 45	- 2	That .			-	- 2	-	-	24	- 8	- 9	.48	
2 6	(Delaterativ)		8238	71	Ti.	-401	M		- 11	-	-	- 0	.84		8 1	- 9	
4 1	Osekal	- 31	11701	29	608	.1000	349	-	100	100	- 1	-	0.04	61	-1-	0.	
4 0	Christian		6933	100		4522			100	100	-		0.45	-			
4 3	Chrestenin	#	MOR	- 64	- F	794	46		100	- 10	-		0.6	4.1.	0		-
₽ 0	Makes.	145	9973	100		420	(10)	-					6.278	3,03	- 7		
8 7	Matarine .	- 46	7996	86	- 1	311	76		M			0	9.8				
1 1	(StrinSlature)	16	HINT	6		1804	- 4	-				_	33	9.5	4	- 4	
	1 Company of the Comp	23	20734	B.	- 1	1136	11	0	91	11		- 1	92	3.11	-1-	-	
1	Calling	- 0	19451	100-	- 1	491	100		18	-195	- 5		0,3		-		
1	Collinson.	. 10.	9967	48	14	107	67		18	300	-	- 9	13	- 6	- 4		
1	School	- 25	14729	6.	64	404	- 0	-	- 12		- 5	-	82		- 1	- 4	- 1
E	Centremoure	38	5403	100	M.	46	/000			- 0	_	-	6.5	- 6	- 4		1
E	Conduten		18200	18	28	168	100		41	180	- 0	-	82				1
F .	Contact	- 10	0540		- 8	1219	12		- 3		- 1		9.1	821	631	- 4	- 1
	Secular	19	F1554	100	- 1	100	100		10	75	-		.0.3	X10	- 0		
E	Stocksten	31	7189	48	6 1	458	10	_	100	100	- 5	- 0	0;	2	- 4		
E .	Constituta	21	145/0	. 5	-	2187	- (1		76.	87	- 2	9	9.1	4		2	. 0
1:	Hondrellan.	200	8436	99	9	461	160		100	No.	8	-0-	5/841	9		- 1	
	305 manure	7.5	4711	100		100	- 86	- 1	9 1	- 10	-	-1-1	0.8	- 0 -	-4		
	Aylaterii:	16.	ROSC	4.1		MARK.	4		100	- 00		- 9	6.2	8.000			
	Constal	19	090	81	19	1671		85	- 1	- 500	- 5	-	0.54	0	-1	- 1	
	Safathan	38.	APLAL	162	0.	(12)	16	10	10	30	-	-	0.48	8.37	- 1	-	- 0
E .	Nematical	30	31357	165	- 0	.299			- 15	100		$\rightarrow$	4.4 9.15	820	-		. 6
	Shelidel	34	6665	100	8.	1001	1 1	100	- 0			-			-	-	
	Makirtad	15	2000	19.		195	99	- 1	79	-	- 1		8494		-	-	
	Milanial	- 20	1008	100	- 6	1917	56	191	- 4	-0	-	-	9,12	811	-1	- 8	
	Magazinar	- 16	5925			3350		100	40	-	_	_	0.5	0.01			
	Margathyseem	36	14039	35	8	3806	- 1		-		_		0.35		-		- 1
	Medital	20	13/600	. 10		NO.	63	-	- 2		_		9.1		_	_	
	Dispanahear	_31	1410).	4		3499	- 0	A	- 1	-1			6.94		-	- 3	- 1
	ht-rottet	36	CMC			181	100				_	- 5 - 1	94		-1	_	
	Niconey	-11	9945			0.0	1	0	100	100	-		9.53	9	-	- 8	-
	Nonebody	38	HIRE	100	106	1000	100	000	- 14	.30	-	-	140	.0.1	_	- 1	- 1
	Markethilaglant	.0	1061	46	1 2	2963		7	0	-9-	-	-	3.40		_	- 4	- X
	15-Chunda	36	1963	96	6	202	45	- 1	709				517				
	Other .	13	397	26	- 36	373	100		26	100	0 1		0.16	4.0	-		- 6
	Chicago bergerings in a	10	6734	3.1	4.	LUM		- 14	- 41	- 10	. 0		9.5	1.0	9 4	- 8	

INTRACY (LOCAL BODY	90.0f	No. of	Ni Hustabili 2000 Reg	No. of Heave beld BID-Wee	Next months and	Novallance 883-019	% esidishayar JUII. Wee	Ve of Sergers lip which reasons for all tremment	No of problems of the Miles appropriate of the Control of the Cont	No dispessing to controlled system	N dispersing to controllised system	Quantity of Waste American (CFO)	Searchy of Marke unflected (TFU)	Quality of Waste treated 21710	Quantity of Wave presented in Compacting Since (1972)	Specific of Wester processed by the Charge (FPI)
Pallictel	22	HSd	78	-	160	-		-	-							
Profitation .	13	3873	7		The second second	100		INC		- 0	4	94			0.	
Panetson	11	TOA	60		312	-0		-	- 1		- 9	908				0
Pengelo	10	JULY	100		100	- 0		-			9	9.65			- 6	- 0
Patatasis	- 11	17800	17	-	2428	100		796	100	- 5	0	0,58	.0.41	- F		- 1
Puterskinsenmed	- 0	0.00	100		6166	-		70	- 1			0.38	E/84 - 1	Dishake		- 6
Performance.	19	1,040	45		1986	- 0					0.0	85				. 0
Peruduakerna	10	8271	- 10	-	100	100		38			4	9,1	631	4	- 1	
No. adul	18	10409	- 100	_	3466	100		- 80	- 81	- 1	- 4	636	84		. 0	
Twee	46	430	-		740	100		- 14	- 0	- 8	- 45	5.67				
Polymorphy	- 12	state 1			2006				- 1	-			- 8	0 1	4	
Novemb	7.0	11159	45		102	- 0		- 40	- 44	- 4		1040		40		
Districts	77	2704			379	- 4		100	196	100		40.	8.62	34		
Determents	74	1334			363			- 9	- 1			9.25	1			N.
Disperin Testinals	18	8400			(154			100			. 0	825		6	- 8	0
Committed	- 0	7965	4				-	- 10		. 8	- 6	8,24		6	- 6	6
Voltage	14	1246	- 4		399	- 4		- 15	- 34		9	1025	7	. 6	.0	
Variation	18	7745	-5-		212			26	- 27 1			- 04	0.31		-	10
Virintal	11	11010	-11		100	9	_	- 1	100	100		63	- 6			1
Victoria	- 77	11990	19	-	1315	700		366	160	4	. 0	0.3	- 4		8	
Voodunium	11.	Date	-	-	193		700	100	589	- 8	- 6	8.985				
Vorganner	29	14790	1		736	AA.	- 1	-				241	- 4		. 0	
Tricks.	10	414	100	-	205	- dr		300	- 70		18	4		- 3	0	- 1
Signi	29	16420	- 9	-	17/0	77	- 0		100			6.1	- 6	- 9	11	
TO be median	17.	11798	1000	- 1	3/2	- 10			- 4				- 1	2	8	
Withorn.	10	10345	766	-	100	-	-	75	200	- 8		8 E				- 8

ND.	Distraica	LOCAL BODY	NO OF WARDS	No of Historical	Ne Heurskold 820-bry	Ne of Mossehuld- INED-Wee	No of establishment	Nestablishment -BID-Dey	establishment _DSD-Wes	No of humans in which source level toronteel	Ns of entablishment in which incree level treatment	% dispecting to controlled system	No disposing to controlled system	Quantity of Weste generated (TPD)	Quantity of Wester collected (1799)	Quantity of Weste freezest (TFII)	Quantity of Waste presented in Comparing Sites (TPG)	Quantity of Waste processed in biometheradi on (TPD)
74	K	Adicharulism	20	11069	90	15	556	- 66	· ·	NI	-			-	0.6			
75		Alignat	16	5931	10	- 2	384	18	0		-	0	1	9	4			- 4
75 77 78 79 80 80 80 80		Alaranina	14	7350	- 4	0	1177	0	0			0	0	0.2	0.1	.0	- 1	0
77		Arctel	19	12968	30	0	1748	63	.0	10	19	0	12	4	4	4	0	- 0
28		Arientawa	13	3244	85	0	232	7.00	0		1	0	7	-0.1	0.1	- 6	0	. 0
79-		Chatgaranging	15	1861	10	- 4	1356	30	0	0.5	0.6	0	1	37		1	6	0
187		Chathanage	18	1092T	35	.0	292	15	.0	90	90		0	2	. 2	-2	9	q.
III.		Chiwan	23	1.1569	60	0	1400	69	0.	13	1.	- 1	. b	1	0.6	103	0.3	0.1
82		Chiraldone:	16	8629	50	. 0	1300	40	. 0	- 0	1	. 0	. 0	0.		0	0	Q.
10	2	Chillers	27	11164	40		450	- 66		3	1			.0	.0	D.	6	0
84	- 3	Clements.	13	#550	10		1033	- 4	. 0	- 3			1	.0	0	0	0	0
85 86		Exte Kallada	- 15	7234	0	9	8651			3	0	8		9.	. 0	0	6	
56		Tidams/actual	33	8300	.0		1260	- 0		3			. 0	- 0	0	0	9	
67	1	Slamedic	17	7778	73	-0	83	71		11	36		16	0	0	0	9	.0
88	20	Clampation	- 21	5753	76	.0	25	624		100	44	- 5	44	0	0	- 0	0	.0
89	9 9	Exhibitions	16.	8569	2256	.0	1206	13	. 9	16				0	0	- 9	0	- 6
100		tirrey	-31	10000	40		1780	30	. 9	1	1		1	3	1.2	22	0	0
91	8 8	Kadakkali	19	8800	9800	- 1	3700	2100	0	237		9.8	2.1	2		1	0	
92	1 1	Kaliwaitukkal	20	16006	.60		2674	14	-8	- 16			-0	2	1.8	1.4	0	
93.		Karavaktor	16.	8694	71		1470	48	- 0	1	1	4	1		0.27	0.31	- 0	-
94	8 4	Кигекруа	14	8000	- 0	.0				- 1		- 4						
92 93 94 95 66		Kommany	21	12976	40	-0	352	109	. 0	- 1	- 6		.0	0.5	8.35	0.75	- 6	
50		Kulakkuda	19	11253	D	. 0	536	126	0	1		- 4	. 0	0.45	3.500	1	- 1	
97		Kalankhanparan	25	11978	28	- 0	1640	. 26	a	1				0.25	1(3)	11/75	- 1	- 1
99.		Kylertemushs	20	11210	50		1250		0	2.			- 7	0.3	3.3	0.7	- 5	1
32		Keeni	14	E210	- 26	- 9	21)	- 14	0			9	- 1	0.1	-0,1	0.1	0	- 1
100		Kundera	14	456)	72		220	. 20	0	. 0		9	0	0	0.1	_0_	1	- 6
		Kienthior	17	1943	43	-8-	0		-0	10	- 1				- 4	- 0	- 9	- 8
100		Mayernit	- 20	15657	-53		2890	1	9.	29	81	. 0		10	4.1	1,5	45	33
100		Mills	15	3888	80		397	100	0	80		0	0	0.25	0.25	- 0	-1-	- 1
104 105		Microsthasitta	13	7728	13	- 1	115	JI.	0	- 15	70	. 0	0	0.2	D.	0	9	
		Mysin	ive-El-	7728	mellon.		215		Α		- Pi	Parties Parties	- 10			-2-		
106		Norman production	2)	150	- 10	80	122	14	- 12	9	1.66	- 50	- 08	16	- 11	:D:	13	9
106		Nedurations Negurations	18	17040 8526	40	- 10	133	- 14	- 55	52	61	9 9	.0	0	6	- 0	0	
		Noordskers	10	1085	16		703	0.65		0.12	63		- 1	8.23	0.23	0.21	0	
109 110		Niterial	13	5827	10		1564	15	- 0	60	- 58	- 6	0	9,55	0.73	0		-
700		Dachina	17	8422	39	-	1025	36	0	D		0	. 0	9.21	0.21	0.23	0	
312	11 17 T	parapin	18	8771	3	-	1096		X	0					-591			
115		Paperuni	23	10033	90		3649	0	21	- 0		0	0.0	0.15	0.125	0.125	- 0	8.
114		Pytharagraph	-20	11272	200	60	D.	34	0	13	10	0	- 0	6.5	6.1	- 8	0	0
115		Patterbi	13	6265	10		199	90	0	61	159	- 0	0	1.5	1.3	13	0	
110	- 1	Patturki	-															
		Vacakhekara	11	TEST	300		592	30	0	80	100	. 0	.0	1.25	0	0	0	- 1
117		Paytheumous	10	12977	- 51	- 1	726	- 11	0	20	32	.0			100		4	8
118		Pettysei	14	5690	- 1	0	250	0	- 0	. 0	- 1	0	.0	0.28	0.25	0.25	0	
119		Fedual	30	(1580	- 39		2201	28	0			0	.0	t	- 3	24	4	
120 121 122		Prisonthon	-71	3600	- 0		103/8	17	0	36	33		- 1	1	0.5	- 4	- 6	
125		Poomshaulare	21	9621	- 35		306	10:	00	26	33		0			_1_	0	- 6
522		Тоозвраину	16	8835	76	0	976	40	.0.	45	100		- 0	_ K	1.1	1.5	0	0

0 10

IIL NO:	DISTRICT LOCAL BODY	NO OF WARDS	No of Household	% Novembeld 2020-Deg	N of Recentlede- 020-Wes	Most existilitanesi	Sentablishment -Ozli-Bry	% excellentered _D2D-Wei	% of hences in which neuric level artiment	% of establishment in which course level treatment	% dispessing to sectoralized system	dispessing to resultable system	Quality of Waste grocected (TFD)	Question of Water collected (TPD)	Quantity of Wester treated (TPE)	Tago Allen Harris	Wasts processed in binomitments
tzi	Panavady	16	9181	47		1200	43		9		e e			_		-	
(24)	Sasthanours	19	15247	- 6	.0				0	100	- 0			1	- 1	- 0	
123	Second Sieth		9671		.0	1931		- 2	9	- 0	g.	. 0	- CI.		5 July 10		- 17
128	Sourcead South	16	8228	70	0	1138	65.	- 6	0	0	0	9	4	3	3.5		
127	Theirvoor	26	1200	. 0	0		0	- 9	0	13.7	0		2	1	- 1	- 6	0
121	Thurstone	22	11019	70	34	5250	. 59	30		. 6	0		5.8	2.9	2.9	- 6	- 6
129	Thickymbhagam	- 13	5680	62	.0	272	70	0	- 1	1.5	0		4	2.5	2.9		9
139	Thompale	36	6368	70	. 0	239	65:	.0		- 0	- 0			1.5	3.5	0	9
131	Thuyslakharn	33	8000	6	. 0	1368	79.	0	. 0	. 4	0	4	. 0	. 6			- 0
(32.)	Thodiyout	23	14237		- 5	2224	82	.0	1	1	.0	- 1	5.5	3.5	- 4	0	0
133	Thrikkanuva	16	12238		- 0	2005	ito.	.0	12. 14. 14. 14. 14.	1.			4.9	1.8	- 0		0
334	Thrikkovilvattom	23	20027	.0		6460	6	0	6	.0	. 0			- E		6	
133	Unimarisan	20	11584	90		2153	60	.0	10	18		- 0	8,636	0,0216	0	. 0	. 0
726	Velination	19	9010	12	. 0	2250	4	.0	4	1.			0		- 0	0	0
337	Vetigaes.	16	10517	63	. 2	1983		30	4.1	1		1	0.		. 0	. 0	0
13 (3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	Verilikkenste	21	1850	. 0	460	805		- 12	3			. 0	0.	. 0		0	0
139	Vilaboredy	20	10897	.46	. 0	3356	32	- 31	16	12			0	. 0		. 6	. 0
140	West Kathada	20	5813	74	0	709	34	6 -	- 76			9	0	0	0.	0	9.
141	Yenny	34	14321	190	. 0	615	1	17 16	9	11811		1	8. 7	9		0	. 0

Management type as a February

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SL, NO:	DISTRICT	LOCAL BODY	NO OF WARRE	Nest Received	Th Bassychold D261-Dey	Ned Boundside B2D-Wei	No of smalthdooms	Montablishment -02D-Dry	% sniekteitenner _DID-Wet	% of investe to which assume level trainess	% of establishment in which assume brief irreferral	% disposing to sentration system	% dispessing to the contradictal against	Quantity of Waste generated (TPD)	Quantity of Wants infected (TPO)	Quantity of Water treated (770)	Quantity of Wyste generated to Compositing Sime (TPD)	biomybered
10		Anicoust	13	5067			0.	0			_	- 0	-	20kg	204g	- 0	0	0
107	AC S	Araremula	15	9671	0	106	1897	0	100	0	0	0		2.	2.5	1	. 0	0
141 141 165 167 168		Annappulam	-15	6818	8	4	179	- 9		- 1	3	0.	. 0	20	1.2	0	0	0
145	. 11	Agross	16	9548	0	33	835	. 0	37	0	10	- 0	0.	20Kg	28	- 4	0	0
105	A .	Chehiterkara	14	6513	0.1	0	4			0		9						110
147		CtersAols	15	A309	0.	0	121	B		9.	0	9	-0	2044	30kg	325kg	0	0
141		Chicor	- 13	5713	0.	0.	47	18		0		- 0	D	41 KG	6000	ARKS	0	0
149	M	Diselber	- 15	4581	0	0	3180	- 6		0	- 1	- 6	D	3,95a	STOKE.	- 4	0	.0
151-	7 3	Englerengelan	35	7241		36	340			0	- 15	- 0	0	100 6.0	100 tid.	.0	0	0
15E	10	Eurou	17.	9611	0		556			0	- 41	- 0	-0.	55.Kg	55Kg	0	0	0
152.	1 3	Environt	17	8920	0	- 12	-00	. 0	- 11		2	745	-0.	12000g	12214	- 0	0	-0
133.4	- T	Eshankutan	-20	15535	- 9	34	2510	. 6	76	0	1	.0.	2.	1400 tg	1400kg	.0	0	0
題	T .	Estymatics	14	5507		100	1226	. 0	100	50	36	- 0		0.004	0:034	0.034	-0	0
世界 日日日日日 日日		Kirkenpinsal	17.	9099	- 0	e e	1697		- 0		- 1	.0	2	520kg	ling	e .	0	0
1284	1	Kattera	13	RCO8		- 34	997	-7	76	- 8	1	.0	0	0.6		-	0.3	
324	1	Keejodr	20	12963	9	51	192		62	9	- 9			900	908	0		0
110	1	Kallpagpara	34.	5041	Ø:	1	797	- 0	9	0	- 0	D	9	36	3/0	0	9	0
130		Kinfgoor	14	6430	0		260		87	0	. 0	(99)	199		. 16kg	0	0	- 0
ieo	1	Keduren	1.0	8972	111		10995		g ·		_1_	8		-	2000 kg	720 kg	-0	8
161 162 163		Kalayten	17	104%			2191			0	- 9		- 6	8.5	0.5	9.5	9.3	0.5
192		Karol	18	10028	7.	59	1000		10	95	. 10	-	30	500	250	350	100	0
160		Costaned	13	4915	0	_ Nr.	31	9	a	0		- 8	- 0	- 88	- 65	0	-0	
186		(Contamp)	13	5600	0	0	760	- 0	9	. 0		.9.	- 0		-	_		
len	1	COZHANCHERA Y	33	4333	8.	12	2191	· v	1	.0	•		1	900 kg	210kg	21014	160 kg	- 1
185 167	1	Mailmete.	16	#229	- 11	100	429	.0	TOO	R	190	190	100	6.000	9.893	0.033	10	- 16
765	1	Kaneanthaner:	- 35	6454	0	52	403	- 6	70	9		*	0	Hilling	19968	- 6	.0	0
168	1	Kurdeer	14	6958	0		1045	0	0	0		0	9	1,000	0 - 111000	10000	100	
149		Material agostra	- 16	6324	0		959	9	100	98	100	- 9	0	3.4	25	0	- 0	- 8
170		Mellsopally	34	6091	0	766	1370	0	100	0		- 4	9	250 am	200 test	0	- 0	- 0
171		Mulliquithautry	0	4987	- 0	70	1054	- 0	1	- 1		- 0	9	4	0.01	0.01	0	0
語		Muhmil		-5145		- 10-				-				10001g	190Kg		2000	9
124 124		Mulanta	- 10	3600 4931	0		846	.0	12	0	12	2		540 kg	545 kg	566 566	NS NS	NB Nii
13		Newtonesti	13	5278	- 2	81	- 55	9	102	60	199	100	100	180 kg	150 kg 360 kg	180	0	0
쌃		Nerarquenin	13	4591	0	92	126	0	10	98	100	199	199	-	650kg	Attitie	0	0
拼		Nickeopyrani Nickeopyrani	15	4477	2	82	316	0	10	73	97 80		8	450kg	612	613	-	0
200		Omilia	- 44	444		- 50	210.	503	2000	0.60	100	2.5	1.00	714	5 tplace			
178.	1		34	511E		0.	356	90	229	50	711	0	ū.	950kg	entyl	5	400kg	. 0
175		Pational	23	14939		.60	79	9	31			0	U	0.5	0.5	, Nil	- 46	mit
180		Pandefan Thekkekkoen	14	7000		MT	m	t t	218	ks	68							
197	,	Periogara.	- 55	6700	0:	- 4	310		- 0.	- 0	. 0	0.	0.	65 kg:	90 kg	0	D	- 10
(8) (8) (8)		Pantiution	19	21402	- 0.	79	1736	.0	205	. 0			0			0	0	0
192		Parametres	- 13	5048	0	52	202	- 0	79	3	1					-		
134		lianni	- 10	675E	4	100	325	0	- 71	100	96		2.	0.3	0.1	0.1	0.5	0.15
103		Ranni Angadi	- 13	5001	- 4	100	300	30	11	95	96	-6-	1	200 kg	300 kg	200	100 kg	0
198		Barri Pasherengady	-17	9229	0	100	430		100-		100	100	100	600 tig/month	600	605	0	0
HIT	M I	Ranni Perpend	19	7356		69	142		29	0	-0	-	0	20kg	16kg	18kg	0	0

AD:	DISTRICT	FOCYT BOUA	NO OF WARDS	No of Humebold	Meantold BES-Dry	Ne of Humanisis- mile Wes	No of entirely and a	Nantefühlenmer -Dilli-Beg	rateriochemist _DZD-Wei	% of become (a which searce level testiment	Not establishment le which mone (c-c) beatmans	N dispusing to contraduct system	45 disputing to convalued system	Quantity of Wests generated (TPU)	Quantity of Waste collected (1970)	Quantity of Water treemil (TPB)		Water present in biomethoral
156		Seethanings	13	7841	0	100	123		100		9		0	60kg	26Gg	20g	a	0
189	1	Theyerbods	13	4190	0	0	19%	1	- 41	10.	0	0	0	-0	. 0	.0	g g	U.
190 191	9 0	Thecapudationy	13	5450		10	638		.13	2	1	.0	0	350Syphoeth	150kg/mooth	350Kg	0	0.
165		Thumpamen	13	2887	- 0	300	267	- 1	100	- 17	. 0	0.	0	NA spd.	JER tyd	141	Ü	0
192 193 194	: 3	Vadamerikkora	12	6834		1	401		129		1	. 0		450 kg	#10 kg	410	- 0	. 0
190		Vallenda	13	3724		70	458	- 1	21	- 0	0	- 4		. 0	0	0	0	0
194		Verhopskirs	13	5600	0	106	250		100	- 4	0		4.	100.60	1870 600	1870 KG		
11/5		A)s	- 13	6670	0	0	136	- 5	0.	-15	0	- 0	-0	0.64	0.04	0.01	NA.	NA
13/0	· ** 1	Azvitatapuzha Azvitatapuzha zeuzh	15	2121	0	-	164				_		_	_	_			
196	0.7	Arktografia	13	9977		- N.			_	2		.0	_			_	-	
196 197 198 199	2 1	Aleotogray	11	60965	60	-	324	30	0	- 1	4	n n	-	0.3	0.2	0	- 0	
200		Attent	22	0.0	100	-	344	.700		-		- 1	-	0.7	0.2	.0.7	- 0	0.
201 201 202 203 203 204 205	*	Aryst:	13	-9088	100	- 6	426	200	0	3:	- 1	- 0	- 6	0.1	0.1	9.3	0	0
202	n l	Bhinnhhavy	31	13420	46		140	0.0	D	32.6	09.1	0	- 6	0.4	0.29	1.1	0	- 1
205	A 1	Bathanoor	14	6323	- 0	11	320	. 6	0	3)	36	D	- 0		0	- 61	0	
204		Chromatican	13	4900	- 11		122	- 1	0.	18	. 0	- 9	- 2	. 0	-0	0	0	
205	. 3	Chenographysican	17	3941	38		348	- 0		74	199	- 0						
206		Czesoldkia Tistperuedkia	18															
287		Charmet.	14	7400	II.	1	212	9		- 7	0	*	0		0	0	0	
20A 209	3	Cherganal		6770	40	0	126	30	. 4	10	. 56			8.5		6	0	D
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258 259 260 260 261 263 263 263	1 PARTY OF THE PARTY	13	2956	30		506	a a	0	100	100		6	089.754ac	9	- 9	0	0
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256 260 261 262 263 263 264 263	Thurbookers	21.	12128	30	. 0	2040	0	0	2			0		10	9	0	0
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263 263 264 265	The Prince security.		17273	83	- 0	263	43.		- 1	1		. 0	PROGRAMONT	DOOKGIMONT	OOKG/MON	0	0
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265	Thylattunney	- 33	1928	. 30	+6	928	40	- 0	13	15	2	9	19000CG/81	100000	- 0	0	- 0
265	Vallhaman	15	1679	11	0	5918	20	-0	20	20	-	- 4	-2-	- 1	_1_	0	0
265	Vaystar	16	1617	- 0	- 8	211	- 1	0	13	38	0			α	0	0	0
200	Venyapran	13	1680	0 p	0.0	240	- 1	0	0	0	- 1	9	- 1		0	0	0
***	Veligared	_17_	7433	0	0	124	- 7		0	0	0	- 2	1900rets	100(4m/m	IIIOOke/m.	0	W
26T KE	Akalahungan	13	1780	474	74	0	70	. 0	67	1-0	0 -		1160 kg	2160 iu	2380%sc	45 kg	110.8x
O BBC	Account	16	6254	362	-50		45	0	92	0	0		1400	0	0	1400	0
268 7	Athiranguahe	22	12101	2501	.10	. 0	16	0		У.	16	5	3 ton	- (f	- 1	500Na	0
239 T	Appricateurs	20	10445	1002	1/9	49	608	-624	1 1		W		1379 kg	2579.kg	1559 kg	.15 kg	T10 km
271 LA	Appearant	20	10521	1150	100	. 0	TI.	. 0	13	10			3230 kg	3230 kg	3230 kg	1353a	0
272 1	Sterenungatem	33	3940														
271 A	Chimps	15	6240	1644	73		49.	. 0	13		0:		2230Kg	2220Kg	2230 KG	430 Kg	D
576 M	phiral/katava	20	10586	3122	106		- 60	- 0	105	- 11	0	0	2009	2600	2000	0	0
275	Elitulary	3.0	7790	210	45	. 0	72	0	4D	72	0		248KGS	209KG5	15KG5	5	9
275 276 277	Champing	23	76843	2342	- 3	. 0	IN.	.0	26	15	0	. 4	236	3055an	- 48	M0099A	23006g
227	Ketinat	110	1717	1882	0	. 0		. 0		0	0	- 4	220	- U	- 0	. 0	0
234 259	Saladeouture	13	3317	128	100	. 0	150	. 0	100	100	0:	0	1,00kg	7366	75.kg	- 0	9
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260	Katathaythe	12	3905	234	45	.0	100	- 10	90	90	0	4	0.034	0.039	0.009	0	0
291	(Caltura (Valkors)	13	7567	291			33		- 1	10	- 0	-	1004	Tong	79kg	-	0
262	(Caltury (Vallaces) Republicany	775	6362	117	45	0	30		.0	70:	9	- 8	0.5	6.5	3.5	0	0
280	(Caltura (Valkors)	20	12479	3000	17	0	14	-1-	65 100	100	9		0.6	60 hp		1 2	0

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Waste softened (TPD)				e	25	-	-	5	101	03.00	9.23	902	400a	22	9800	200	2500	13	1.0	1845 18	100	0.60	138080	166	17		12,165	- Sare	0.45	77	9 6	0	0	17.	9	77.700	3.705	4100	S STATE OF	300	18.0	4.0	
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Permitty of Water permitty and the of TPDs are (TPDs					-			9	4	4		15			o	9		0	9	0		0	0	0-0	0	1180	0	THE PERSON NAMED IN	9	0	,	93		0	0	0	0					D	

NO:	нетист	FLOCAL BODY	NO OF WARDS	No of Hemetuld	Neuschald BDD-Bry	Ne of Household- D2S-Was	No of extendibliouser	Semblishment -DIB-Dry	% establisheren _D2D-Wei	Ni of honors in which stores level restored	% of establishment in which source level treatment	% disporing to controlled system	disposing to recording option	Quantity of Wests grounded (TPD)	Quantity of Weater collected (EPO)	Quantity of Wasts (res)rd (TPD)	Quantity of Waste processed in Compening Sites (TPD)	Quantity of Waste processed to bissessbeneti on (TPB)
224		Velivemoor	n	3046	436	72	0	- 1	-	75	THE STREET		0	925	9.95	0.7	0.03	6971
535		Velleymor	13	6268	919	200		1	0.	3	0	0	0.	0.01	0.02	0.03	0	- 0
334		(Velica)	16	6/84	940.	73	0	32	- 6			. 0	0	8.4	0.4		0	0
334 327		Vilayapanin	. 19	10741	1120	85	0		0		- 1	43	0	6.2	0.3	8.2	0	0
338	1.	Adinaly	-21	10767	11540	92	3.	.93	28	70	10	25	25	10		- 3	100	. 0
331	. 0	Alatinds	- 13	2661	26	- 95	0	13	. 0	25	36	- 0	0		0.1	0.1	1	0.5
240	tt.	i Aeskulvin	-10	5141	1902	21	0	32	0	25	- 69	25	- 11	1.3	6.3	2.5		1
347	CR5	Approprie	1)	400)	97	10	0	37	0	(2	- 1	- 15	- 22	8.5	6.1	0.1	- 2	
141	TE.	Distance of Fey	- 13	2853	168	18	- 0	- 31	. 0	34	29	43	- 24	1.5	6.5	2.1	-	- 0
30	1.	Chaldapallett	13	7120	407	4	0	80	0	2V	65	62	25	1.5	0.71	0.75	- 0	
344		Ordentarial	- 13	46)3	923	- 75	0	-70	0	25	25	83	10.	0.4	0.2	63	1	0
341 348		DesGulatt	10	2894 764	108	- 40		- 0	0	10	16	25	10		7,0	0	1	
347	-	Edwards	13	5016	763	89		49	· e	23	22	0	0	437	4.18	4.18	1.67	0
348	1	Eboyara	17	5160	950	80	4	. 85	29	65	50	30	10	3.2	3.1	3,1	3.5	9.2
340		Ecutione	14	4698	692	180		75	9	50:	25	100	100	1.3	0.3	2,1		
330	1	likeli Karihade	18	10580	120	83.	- 6	. 18	0	50	.78	60	50	3.1	1			. 0
221	1	Kamakaha	15	6234	4592	180		.76	Q.	90	60		à	4		2.5	- 1	
352		Kenbysi	16	6718	962	82		30	0	20	10	65		6.7	1.9	1.8	- 0	0
121		(CarrSullass)	-10	458D	0	-75		(00)	101	29	35	100	25	139	0.5	0.5	63	. 0
254		Karmmoorn	14	5564	765	76		.75	0	50	30	- 4	a	0.6	0.2	8.1	92	
388		Karmkunger	13	4122	101	0	- 4	.63	0	56:	50	- 0	a.	0.43	0,42	0.43	0.64	- 4
154		(Earlingson)	17.	8707	1054	11	0	65	e ·	80	7.5		- (E)	6.5	4.5	4.5	1 2	0
257		Kodkulum	0	3984	113	92	- 0	99	. 0	38	36	0	1	140	2.93	1.95	1 0	0
713		Dickleyer	13	4728	133	- 95		02	9	20	65	0	2	1.65	13	0.8	0	1
100	1	Henothelic	-19	8770	856	85	- 0	80	90	35	20	25	30	1.5	0.5	- 44		1 0
100	-	Kinfayahoo	13	3436	.140	10	0	68	- 0	40	143	0	- 0		18	1.8	0.5	0.21
761 262	-	Konstonengelan	15	11850	1/22 2/280	30	13	20 96	165	87	4	0	95	4	4	3.8	3.5	3.5
岩	1	Kumile.	13	4738	138	34	- 0	40		45	25	0	- 0	4.50	2.45	2.48	1 2	1
164	1	Manhort, Markown	13	4388	802	48	0	74		64	- 4	26	- 6	2.259	0.012	0.012	0	0
783	-	Minterest - 100	*********	-0.04650-0.0	nine Still ville	NO (22)	00	300	105	Til	-73	300	25	1.39	0.5	.0.5	63	- 4
266	1	INfarfanpursen:	.13	3592	15	9	0	1001		98	30	-0	90	3.9	0.6	1.1	8.15	. 0
367		Muntar	2.5	9107	3152	70	0.	39	70	(00	100	40	0	44485	04485	44485	- 1	
164	]	Mictoro	13	2563	2300	73	0.	- 90	0	60	30	50	50	11	9.5	2.6	0.2	0
369	]	Nedurkantim	.22	15334	39363	75	0.	90	4.	33	.10	0	30	13.41		-	-	-
179		Palivant	14	5000	1300	70	0	- 65	0	70	36	80	71	3.26	0.5	0.5	- 2	0.2
EIL.		Pampedampun	. 16	6831	150	70	9	70	0	7.5	3/5	30	20	535			-	-
351		Februade	.19	50000	1425	100	0	12	1	10	15	33	85	1.1	1.5	1.5	3	
577	1	Prisontifierum	-14	4242	1670	- 4	- 0	72	0	10	3)	-60	- 23	2	1.5	0.9	2.4	0
374	1	Europadia	13	3170	414	100	0	70	0	50	10	190	70	0.03	0.33	0.69	0.49	0.48
319	-	Bajeked	12	3819	880	85	15	- 65	85	75	75	100	90	0.49	0.68	0.68	0.68	9,68
西班牙西海		Ratherary	.0	6052	150	25	79	70	0	70	73	91	90	0.58 6.69	4.26	4.26	0.6	0
222	1	Benthscoatz.	- 13	4941	170	11	-	(00)	90. Hi	WI NO	72	74	74	3.39	2.75	1.75	5.8	0
275	1	Serupathy	13	4300 7607	130	78	-	75	84	90	100	30	10	0.4	0.2	P.2	0.2	0
767	1	Oduntuachola	16	6254	248	- 0	60	70	-70	40	70	100	60	2.5	0.3	0.15	0.11	0
38)	1	Upputiers	18	8184	1211	60	8	336	0	98	60	60	90	0.9	0.0	0.3	0.15	1 0
382	1	Vandamiedu	18	10373	1109	0	11	8		19	29	1 7	1	9.17	86	8.6	1.6	0.2
783	4	Vandorries	21	13969	1011	1 0	66	10	60	100	70	70	70	1 1	3	1	1 3	1 2

NO:	DESTRICT LOCAL BODY	WARDS	Na of Hyumbaid	Household BIO-Dry	Ti of Hazarticki- 1120-Wei	Newf	*Lestablishment -028-B-p	problitorim pob-wei	N. of houses in which source level treasures	We of controllerance in which marrie level treatment	No disposing to convertined against	Ni disposing to nestrations system	Quantity of Waste generated (TPD)	Quantity of Water satisfied (TPD)	Questity of Waste treated (TPB)	Queently of Waste processed in Compositing Aires (TPD)	Wester processed to
311 313 386 347 319 389	Vanagpaus.	12	11001	1123	.40	- 6	56		21	30	0		3.3	13	14		- 0
385	Vertilisaty	18	10091	1812	50	. 0	70		19	10	0.		9.79	0.1	1.5	1	
386	Valtavada	-13	2343	196	51	- 0	60:		- 1	20	0		0.1	-0.1	0.1	10.0	2.0
347	Variations	38	9300	410	51	D	94		103	21	73	-	1.1	1.1	1.1	0	6
248	Vefattorysl	17	8448	1072	91	. 0	62		53	- 85	0.		7.19	341	41	0.1	- 6
389	Veligenation	15	6870	1000	75	.0	83	. 2	13	39	0	- 1	0.1	0.1	8.1	0.1	0.1

20.00

. 10

9.82

AC.	HBTHICT	LOCAL BODY	NO OF WARDS	No of Household	Neurchald B10-Dep	No of Hospitali- D2B-Wel	Ma-alf establishpared	Neutobilibreum -D2D-Dey	estably/Separa _DDD-Wes	% of becase in which secure level trainers	satabilishment in	% disposing to controlleral system	disposing to montrollead system	Quantity of Wester generated (TPD)	Quantity of Waste collected (TPD)	Quantity of Wasse Insected (TPD)	Quantity of Wants presented in Comparing Sites (TPD)	Wester presented in biomerhanasi
390 (		Alkkaramala	34	7689	1640	. 34	0			D		- 1	D.	502	0.5	9.5		-
497	n	Atengada	21	16317	920	40	0	35	0.	10	10	- 0	0	4.03	0	0	9.	
恢		Antistic	10	8454	1692	19	c	12	- 0	1	1 1	- 10		0.06	11.0012		8,00036	D.90012
쓞		Acrestos	u	4955	189	0	0	0	-	9		- 1	0		0	0::	2	
102 100 201 185	K	Augustus	16	6529	150		0	a a	0		490	-0-	0		0	0		
쎯	ů.	Aves	36	640¢	1638	- 0	0	0	0	1	10	0	0	- 5	0.	0		0
5061	1.	CONTRACTOR OF THE PARTY OF THE	16	6921	598	- 2	0	0	0	0	0	0	0	- 9	0	0	- 10	
쓞		Asmerjaska	13	570H	548		0	.0.	g .	10	35	- 1		. 0	- 0	0.	10	
700	4	Chefature	-21	10535	- 62	0	- 0	0		D.	0	0	0		0	0	- 9	
鲻	M-	Cheiderangeless	16	9605	1100	34.	0	- 4	0	100	19	0	9	5.3	63	4.3		
200 200 200 600 600 600 600 600 600 600		Chargement	18	10364	468	100	0	64	9	95	75	0	0	6.99	6.99	6.00	- 1	
<b>##</b>	m 3	Chrymefut	17	10832	368	M	0	67	g.	79.	67	0	67	3.7	3.7	3.7	- 0	
602	1	Chitanawa.	76	9583	417	10	9	0	- 0	99	18	- 0	0	4.3	3	1	10	
100		Churredkiata	116	10605	1996	75	9	-0	G.	- 0		0	a.	9 TD0	₩7DF	91700	0	
404		Chotmiston	34	9097	480	92	0	18	0	0.5	15	1	41	4.3 YPD	43.770	43 170		0
401	1	Eldekkettaneyel	16	6033	800	49	g.	100	g .	40	44	0	0	7.170	1770	7 110	- 0	
106		Eslativals	7.5	17067	4154	10	.0	61	0	22:	43	0	0	3.5	9	- 0	10	.0
407	1	Edwarmickadu	-15	6346	894	75	0	100	- G	0	0	0	0	4	3	1	- 6	
638		Eispkumspooms	n	15479	1592	92	6	100	g:	25.	42	0	- er	7			.0.	
400		Classi	11	5550	137	- 0.4	0	100	0	100	100	0	0	-				
410		Patrik/virs	14	6982	196	- 98	0	100	0	100	500	ă ă	u		- 0	0	- 2	.0.
01.1		Kutteraktueli	13	4121	61V	0	0	0.	0	- 0	- 8		α					
412		Codangation	20	16(23)	3355	0	0	0	0	. 0	- 0	- 0	a		1			
cu	1	Kalade	17	9733	25/2	62	0	Ó	0	12	4	- 0	a ·	7.06	1.6	0.9	0.5	9.5
414		Kaltneskarki	15	7511	120	-	0		0	7	- 4	- 0	16.	14000	-		-	
413		Kergoor	- 17	4790	242	0	0	0	0	. 0	14	- 0	- 3	. 0	- 6	0	- 0	.0
43B	1	Kanduity	17	9600	2656	0	0	- 0	0	9.	- 0		0:	. 0	.0:	0	.0	- 0
417	1	Kademilooc	20	1(73)	1211	0.	0	0	9	1	1		- 11	0	- 0	0	0	- 0
413		Y,westengad	10	9480	1770	0	0	0	0	9	0	0	10	0	0	0	1 1	- 0
419	1	Kemantare	-11	4106	720	0		a						HOT ASSESSED		. 0	. 0	U
127		200mletele	- Depth	12168	716						- 11	-	-	Sin data systable				
431		Kithakkaryhaker	19	9253	530	0		· g·		0	9	0						
433		Kerrappedt	(3	6172	425	0		-0		100	100	- 5	0	0	0	g .	- 9	.0
420		Katteodi	-11	14513	,7100	30	- 0	0.		36	1	-0		0		0.	1 1	- 11
424		Kumbulan	18	10125	1725	0.		0	0	- 4	1	0	100	12	0	- 1	0	0
423		Kunthsforgi	17	8719	1400	100		90		100	90	0.	0	sec attimated	not collected	- 4	. 0	D
436		Kurrethinsty	10	12418	3940	13	0.		0	4	10	1	0	8.3	0	0	-0	- 11
49999	1	Контобити	15	6500	150	34		V00		46	45							
628		Kernebushi	17	- 1100	120			0	0		0		0.	- 6	. 0		:0	.0.
429	1	Kurapody	20	(2)21	0	16				1		- 0						
628 629 420		Ksahuppiti	(3	3015	195	34		31	4	0	0	W-	D	0.	.0	6		- 0
431		Malayknoor -	17	6266	.971	0			4	0.		0	0	0	0			. 4
10.13		Negleyearass	- 01	****	0000	17027	-	- 1		-	0	- 0	- 6		- 0	0.	- 1	- 4
45		Marreil		5548	219	- 0					0	1 1	0	9	0	- 0	- 4	0
433	1	Macialism	-12	5253	1585	- 83	19	- 2	-	1	0	0	0	12800	0	0	1 3	1
601		Minister	-12	3857	191	- 8		-2	-	1		7		0.03	2001	0.001	ML	NS.
469.1		Maretr	14	6459	350	6	- 6			0		-	- 1	- eux	ed	all	0	161

St.	DISTRICT	LOCAL BODY	NO-OF WAJIBS	Ne sl Henstheld	Nemetrali Hermitali 1920-Dry	No. of Montelinid- DIMINATE	No of extendishment	Neistörhmut 820-Dry	% establishment _D2D-Wel	The off femores for webleth source Jovel treatmost	% of outstillationed to which course level treatment	% disposing to reasculous system	dispecting to controlled system	Questity of Wests generated (TPD)	Quantity of Waste antivered (TPD)	Generally of Wester (resist (TPB)	Waste processed in	Quantity of Weste processed in biomentaged on (TPO)
407		Moskhannat	16	1994	296		0	-	8	. 5		. 0		- 60	rdi	- 46		
iros-		Mudakkusha	0	7346	799		- 0			0	0		- 8	UUOKO		0	0	18
435 460 441 440 440		Modenthursthi	10.	3726	. 0		- 0		-0-	- 0	-0				1201			
461		Moneyhelic	36	5439	(105	- 4	.0	. 0	0	0	0	- 0.						
441		Necessardules	(9	12509	2521	57	- 0	10	0	. 0			8	110000				
442		Nethroteseny	26	-12271			0	J		. 0	E10/0	D		34	0.1	0.5	6	. 0
AU		MERICAN	16	7801			0			0.		. 0		0	0	. 0	0	-0
報		Neophial	16	793.7	3836	- 6	. 0.	4.	. 0		. 0		2.		- 2	- 1	. 0	- 11
445		Okkal	36	978年		- 0	- 0	- 6	- 6		0		- 6	0	a	- 6	.0	- 8
665 467 668 689 650 601		Thingoinii		+506	133	76	. 0.	159	.8		. 0			0	- 0		- 6	- 0
461.3		Patikhuzha	.0	3656	1117	0	. 8		0.	. 5	. 6			8.	- di		.0	- 0
448		Polarimangalain	23	13549	3140	79.	. 0	. 16	.0.	92	90.		- 5				0	0
<b>##</b>		Nilippore	23	13349	2341.	. 35		70	.0	32	90	. 6		19	0.01		- 0	. 0
450		Partheticate	18	9660	3623		- 8		0.	- 11	93	. 6	7	1	4.9			
<b>311</b>		Paratiadyou:	22	1130	213	. 0			0	76	1587	- 6			-			
401 401 404		People's	13	単に変字	588	- 6	- P	4.	0	100	100	- 4						
453		Pisdings	14	7649	3 197	34	. 0		0	100	100		2	a married and		Lance Co.		
454		Produkte	- 13	9453	(5)4	32	- 4		.0	12	- 0		9	2219 KG	2279 N.G.	1789 8.0	. 9	-8
433		Pethanikadu	13	3657	759			11	0	20	. 0		. 9	100kg/dec	0	0	. 0	- 0
456 437		Pytherodiking	13	.9932	436	6	- 10		D.	6	6		- 8	No. Estimated	No.	8	- 9	- 5
437		Samurangalan	201-	12735	1296	42	- 4	7	27		46		- 0	ATPD	STED	0	Base	
438	. 0	Kayamergalam	14	6005	2006	25	200	3		14	1	4	- 0		47,1577	a line	30000	
450		Sreenools. Negatare	16	37W9	250				-		.0	9.		8	90		0	
460		Threesand	- 13.	7835	606	45		54	. 0			- 6	- 5	2.	. 70	- 8	- 9	
460 /61 462		Discontinue	14	7572	5554				11.00	16	10.	100		Land	D.	0	n.	- 0
462		Thursvar	20	19379	365							- 0	· · ·		17300	0	. 0	
461		Uminoporous	20	19022	1586		-0					- 8	- 0					
Abi		Vatuxiekkara	17	3549	1/38%		7			4	- 11		0					
461		Veterokodo- Pschardricini	16	6179	1628	.0	.0	9	.0				0					
2011	-	Nekamu		-	-141	-	0			- 64	- 1		-0-					- Anna
467		Varagetti,	10	6087	271	0.	0	346	100		- 8	- 0	. 13	5.87	0.67	D.	Part of the last	VIII NAME OF THE OWNER, OWNER,
468		Vengouths	16	9275	1858	Ð		0			0	. 6	.0		. 0	0	- 6	
107		Varbakloram	20	17202	718	. 0	0	- No. 10	200	- 2		0	0	1	100	- 0	0	
470		Vengrele	23	17853	830			0		78	71		0	3	- 8	- 5	- 6	- 1
ATI		Vegour	15	3835	332	0	- 0	W-11			1.6	1		10	10		0	

27.44

0.00

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SL.	DISTRICT	LOCAL HORY	NO OF WARDS	No of Hemsehold	Nosephold B2D-Dry	N. of Horomole- DIB-Wei	No of substititionssi	Neuralifeberest -BID-Dry	ntablifamini _pzb-Wei	No of Bossess on which contry bred present	hi of establishment in which secure level streetment	% disposing to controlled system	dispense to controlled system	Quantity of Waste governied (TPD)	Quantity of Waste unlicated (TPB)	Quantity of Wester treated (YPR)	Quantity of Waste processed in Composting Sites (TPD)	Quantity of Wante processed in biometherests on (TPD)
_			-										_		_6[			
472		AGH	18	8400	3154	0	9	17		. 0			- 2	-	- 3	-	6	- 5
47)	E (# 3)	Абдариятия	17	0749	19)7,9	0	-		9	19		- 6		110	- 6	- 0	0	- 6
474	- 11	Alber	23	17590	1700	- 0	0	0		9	D	P	9	1 inn	1/2 ton		0	0
475	8 NO 8	Abbernatada	18	10499	3669	0	0.	0		34		- 0	- 3	- 0	-	_		-
476	0 M 9	Architect	15	6922	1100		0		0		- 6	0		Ston	I ton	- 64	- 4	
471	3. 7	Artoper	17	10005	60	0			-	- 19	-	-	-	4 1001	Har		1100	
478	D D	Arthrappilly	10	3604	965	- V	0	0	4	3	- 0	0.0		Sol entrated	Enjound	0	0	0
479	E B	Avanue	13	E062	JD	25		3		- 1	0	. 0	- 9	-		-	0	- 2
400	8 8	Avinimary	14	6255	323	0	- 9	19	- 1	1	. 0	. 0	-1	0	- 0	- 0	0	0
481	8 8	Chather	- 11	7956	7956	100		100	9	-	. 0	.0	-	- 0	- 0		0	0
482		Chelalilare	22	13745	2921	23	0	3	0	- 2		- 0	.0	- 6		- 9		
403	E 5	Charps	21	11176	2136	72	- 9	6	36	- 1	- 2	9	n	nic edivana	eur. aut/eurof	1666	-	betreether ten
454	D 0	Champil	100	30449	3097	- 6	0.	ė.	.0.	1	. 0	. 0	- 0	9.	0	-1	0	0
445	b 9	Chawannut	101	3255	959		- 11	6	.0.		. 0	0	. 0	1	0		0	. 0
486	F 9	Desenangslen.	13	7119		. 0	0	6	2	- 5		0				-0	0	-0
487	Ē 8	Edithrung	10	3643	783	- 0	B.	0	.0	-	.0.	0	0	- 4		-1-	0	- 0
488	9 3	EderWange	14	B469	6560	(00)		0	0		. 0	0	9	0	0	- 0	0	. 9
480	P 9	Stavielly	16	16513	104	. 76	0	30	0		D	0	.0	Line	7.00	. 0	0	- 0
470	D 18	Engondinal	3.6	.7793	15)3	72	0	30	0		1	D	0	no retrunz	ned entimeted	100	Annual Section of the Con-	DISCHOOL STREET
491	B 30	Ernad	23	14585	2704	. 0	0	0	9	. 0	- 0	0	0	-5-	9	0	0	- 0
492	E 9	Enempets	.59:	7430	3921		D.	0	1.	. 6	- 0	-0	0	_	0	- 1	9	- 9
492 454	D 8	Katuupte	58	8767	2691		- 0	g.	9	D	. 0	0		- 5	. 0	0	0	2
494	D 33	Kedaggeran	16.	4330	901		0	9	1			0	0	-	9		6.	.0
430	B 38	Ketayathe	200	9234	1232	0		0	- 0	- 0	. 0	. 0	0	-	0	- 0	0	- 2
456	B 6	Kelokutty	316	6276	1372	- 2	0	0	.0	. 0	- 0		.0	- 8			0	-
497	E 6	Kopamangatan.	30	10800	960	30	· · ·	-	0	. 0	.0	. 0	- 0	-	9	- 0	-	-
459	8 8	Keasonin	10.	8409	818	36	0	4	. 0	D	- 2	- 0	- 0	no mirand	9	- 0		
450	N 19	Kashrungy	16	1791	1487	-	0	0	0	. 0	- 2	-	- 0	not selected	6.2	9.2	1 1	
500		Kanden	11	8496	129	- 3	9	21	0	. 85	25			0.2	0	0.	1	
501	-	Estatoriza	Pundonan	\$500	700	de la company	-		- a	. 0	1	-	- 6	0		- V		
-360		1000	1	100	1000	-	7	4	g.	0	17	1	-0	V 5 inti-	6.7 cons	6.T tons	0;5 mm	E
500	6 8	Kedikara	115	(087)	3010	- 29	-	-	- 4	0	- Al	1	-	- Contract	0	0	0	0
504	1	Kedayary Kolusty	17	11341	mi	- 11	4			0				nor estimated	1000	oot antimoni	accentrated	not estimated
506		Kenduts	13.	etre.	W72	- 8	1	-		0.	- 1		9	0	- 6	. 0	0	0
507 508	9	Kairatty	19	10989	610	.0	. 0		. 0	- 0	0	0.	. 0	0		- 0	0.	0
508	F #	Kashu	147	:6510	901	- 4		- 4	. 0	3.	0	0	.0	not entireated		2	-	6.
100	k 8	Modeklasher	16.	8860	1167	40	- 4	52	- 3	- 10		0	. 0	2.40, T00k	1.01 TON	1.05 TON	EZSTON	1 TON
510		Mala	20	11936	4446	0	0		- 0		0	0	. 0	0	0	- 75	0	α
501		Mensker	19	9467	2312	100		100	1	190	700	36		9.867000	PERTON:	9,867,004	ER TON	9
312		MATHILAKAM	17	7565	30	-0-		0	- 0		0	0	0	1	0	0		9
513 534		Marather	23	18245	2731	0	- 0	0	0		0	0	0	4.9 con	4.6 pp.	4,0 tox		- 4
She	2	Melger	1.7	6888		- 16	- 0					0		700kg	0	100kg		
515		Medialcomatholiano	14	7093		0.	- 0					0	1	Nuferkannat buktosi		A		
216		55/Dainty	13.	6733	413	67	0	8	0		. 0	0.		n-002	11-010	- 6	0.	
517		Müllerkkars	60	5927	1593	36	. 0	4.0	0	. 0	6.		. 0	- 0	0.	.0	2	4
558		Mariyad	17	9633	1180	100	1		100			6	8	1000	100			

NO:	MSTRUCT	LOCAL BODY	NO OF WARDS	No. of Hausetobi	Namelold Bill-Bry	% of Meanth-60- 020-Wet	No of establishment	*D22-Dey	M- solutionisson _D2D-Wes	% of touses in which movie Jeval training	Ye of establishment in which source level treatment	% dispusing to neutralized system	dispering to receivable system	Quantity of Weste generated (TPB)	Quentity of Wests collected (TPD)	Quantity of Wester treated (TFB)	Quantity of Weste preferred in Comparing Sine (TPD)	Quantity of Warter processed in Discretionalli on (TPD)
110	_	Nationary	17	10032	1056 -	100	. 0		-	ide	30	100	.M	2000Kg	2000Ka	3000Kg	I HUSSING	500Kg
220		Nurthe	14	6373	2514	64	0	- 0		48.	43	6	- 6	2 test	1 ton	0	0	9
121	1 3	Numerickson	- ):5	6741	1915	32	0			0	0	- 6	. 0	NA	NA.	.0	- 4	NA
田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田		Onunwayor	_12	3635	249	. 0	. 0	0.		0	. 6	8	.6	NA	NA	NA.	NA.	NA
323		Pattyroi	.14	6003	900	. 0	. 0	0.		- 0	. 6	6	- 0	NA	NA.	NA.	NA.	NA.
124		Prosectory	23	1544)	IDi	- 0	- 0	- 0		. 6	. 6		. 0		1.15	U.S.		
227		Pariel	_16	1050	1125	. 2	- 0	- 6	8	. 0	0		0	0		. NA.	NA.	205
555		Paralen	- 11	1061	111111	- 6			0.00	0		- 0		- Landauer	- 1000		75,816 1	-339
2554		Paraposian	38	87058	1709	99	- 9	31		. 0	- 11			±5Ten	0.57 bn	- 13	- 4	. 0
250	1	Certyanam	.01	5406	8918	- 5		0	. 9	0	0	- 6	. 5	NA	NA.	NA.	NA.	NA:
100	16.0	Partnerson:	13 22	12681	1775	45	-60	- 1	- 2	0.	0	- 4	. 0	NA.	NA.	SA	NA	210
131		Perinjapan	13	6001	55E	300	-40	100	87	. 6	100		-5	29st, not major	_ Not	Net	NA.	NA.
132		Powmengalain	12	4336	400	- 2	. 6	100		100	100				Non			
110		Portstee	- 12	5471		- 0	0						-	Not entireted	Pier	Per	Not extracted	NA.
554		Payve	13	Medi		- 0	. 0	_		- 6	_	- 8		-				_
133	1	Podebad	-15	3634	565	- 6		- 6	- 11	2	- 0		- 6	Sint exposured	Tier	Not	No.	Maria and an artist
534	1	Fynnaynerfulam	19	950E.	2940		. 2		0		0.			324	324	324	Nes retinated	Distribution.
237	1	Pomager	20	1972	2138	9	. 4		.0			8.	. 6	615	6(5	613		
9#1		Punteration	- 35	16701	1197	0			.0		0			115 ten	815	115	0	
120		Puthe	20	(3268	2180	- 4	- 0		. 0			- 7	.0	35	1.10	6.1	0	
340		Acresa/ayaraparan	31	12471	2937	.10		30	0					9.4	0.35	. 0	0	. 6
		Tatlockey	36	5184	-50	29	- 2	100	0		- 5	- 8	1.8	10	36	.55	· a	
142		Thanolaso	18	9782	3100	_11		100	. 0	- 4		- 8	- 8	20 tox	26	20	0	
824		Thicking	18	- 272	727			1 121	200					STONDAY	0	MODE	0	
337		Thirtothermate Thomas	17	NA.	76A	-			-	_		-		HARRY ST.	11.		100	
25		Thekine	17	4368 6561	30 IINO	88	0	83	- 0	- 2		.0	. 0		-	20	76	
57		Vednitrical	18	8020	100	0	0	20.	8	80	75	0		9.7	3.2	0.7	- 6	_ 4
HE		Velapad								- 0		- 6	- 0	- 1		9	76	- Si
Ness L			50	10137	1947		.0	90	.0		300	0	.0	ant enforced	mit colimated	cattypicad	***	10
<b>M</b>		Mellachica.	-11-	1310	676	- 0	. 0				-1-	. 0		0.03	3394	0.04	1	
150		Vallathylingm	# ·	6376	HITT.	107	0	1			9	.0	0	HII ISLINGA	nn aminshd	not entrained	. 10	9
157		Vacandampoity	22	13900	2601	18	7	0	-00		3.	10	0	not estimated	not extinuoud	not extracted	.00	in.
ME		Varavoos	14	9411	811		-0	197				(0)	0.00	en erleami	interferend	not estimated	100	. 19
133		Versespoly	18	1421	rate		- 90	1		0.0	9	0	9-	me estimand	and estimated	not extended		
334		Videgatur	21	12510	THE .		0	(-0//	0	(0)	. 0	0	. 0	not estimated	not extended	ent		
555		Velaktiara	10.	8560	1766			. 0	ė .		1					constant		
156		Yelur	17	HIE	1439		.0	0	- 1	0	. 0	Ð		no estimand	ear enforced	per.		0
157		Variations I	17													minuted		

NOT YOU

SIL NO:	BISTRICT	LOCAL BOOY	SO OF WANDS	No of Heroschold	Newschold Business	% of Bounfold- B2D-Wer	Ne of establishmen	Nematrial and September 1929-1949	establishment _D25-Way	% of limiter in which source level desiress	% of esiabilitarient in which source level fraction	To disposing to centralized system	disposing to servesional agotean	Quantity of Water growated (TPD)	Questily of Waste solisted (TP3s	Quantity of Waste treated (1770)	Quantity of Wester processed in Comparing Sites (TPB)	Waste processed to
158		Aug S	21	12799	2613	35		96		54	1	- 0	14					21
110		Akathelmane	12	9500	1892	45.	8	2	0	46	1	0	0	Commercial Control	1500 kg	300 kg/ men	6. 0	- 0
580	7	Abrathe	23	15188	4290	83	0	19	1	12		87.	- 5	2140.14	1400 kg	1400. kg	. 0	0
雷	A	Alathur	06	- 200	U. 11	100							5 37	E-1/13		100000000000000000000000000000000000000	10.	
183	E	Amheleppers	20	12929	1432	87	0	- 0		- 10	29 -	- 10	0	S Tire	6 Tim	Transported	0	- 0
567	K	Anakhara	16	7066	1401	70	0	.0		-0	6	- 10	0.	0	.0		. 0	. 0
354	DJ1277	Ananganadi	15	7526	985	30	0	25	0	13	- 18		. 0	. 0	0		- 9	0
164	A	Ayist	17	8327	1269	83	2	0	6	- 0	- 6		- 0	0	. 0	0	. 0	.0
200	10	Chalavara	15	6950	1045	0	0	0		- 6	15	В	0	0.	- 0	0	0	
162		Characty	11	6550	1200	106	0	100	100	15	- 6	.0	0	100	9	. 6	.0	0
540		Deputy	22	11875	2016	70	- 04	A0	42	- 0	0	. 0	0	1100 Kg	1000 Kg	810 Kg	0	0
160	18	Elevander	14	5275	235	0	9	. 0	0		0	0	0	0.15	4.1	0	. 0	.0
125 127 181 181 181 181 183 183 183 183 183 183		Erivace	11	9497	989	0	0	.0	0	0	0	. 0	- 6	0		. 0	. 0	0
STEEL STATE		Entherpoley	34	56E1	362	22	52	32	- 6	. 0	0	0	. 0	8.85	0.01	11/03	- 0	- 0
122	15 3	Kedengathipuran	18	9877	1239	90	9	45	0	0	.0	0	0		1 1 1 TO	1100/3	5 547	1.5
277	1 3	Kanjmanustra	10	9944	1959	9	0	0	0	-	0	- 6	0	8.63	0.03	0	- 0	. 0
124	1	Recrasi	15	9067	1100	-50	0	18:	0	0	0	0	0	7,11	1.00	W		1
579	0 1	Telanopose	18	7794	44		- 6	0	0	0	1	11	200	Section 1555	DOLLET CHARLE	THE SECTION ASSESSED.	100	C. C.
575 576 577	0 8	Zeet	16	2930	650	- 45	9	100	0	0	- 0		- 0	0.70 spens	9.65 tone	0.05 cons.	. 0	. 0
200	E3 - 8	Karamtea	16	9902	1759	0	0	9	0	0	0	- 0	0	0.45	0	0	.0	
376		Karakurusi	16	2417	1490		9	101	0	100	1	0	0	0.04	0.01	0.01	- 0-	- 8
170	(i)	Kutshe	- 17	8870	2049	70	0	47	0	9	. 0	0	0		1.00			
179 190 191	00	Parable of the Parabl	18	9833	268	64.	64	100	4	0	7	0	0.	4.5	9.5	0.5		. 0
300		Keringsohn	17	8366	218	1	0	12	0	0	0	- 0	.0	1000	200			100
靈		Eavelony	13	4001	218			9	0	0	- 6	0	0	0.01	0,01	9.03	- 6	. 0
픘	1	healmen	12	13196	2238	69	- 8	67	0	9		- 4	- 0	0.04	0.01	0.04		. 0
級	1	Klassification	11	F161	1333	86	54	50	90.	28	4		- 0	7.100000	6 totales	6 tonors	0.2 torones	0
255	9	Koleniu.	18	10181	665	0	0	100	0	-	75		- 6	1.05 toone	1.55 topew	1.05 bonne	205 kg	D
381		Kehenne			1245	0	-	137	349	0	0	0	0	1500	1200	1200	200	0
586 587		Kelestoše	10	1346 1300	1664	100	-	49	0	34	42	100	42	100	500	550	.0	D
188		Keepal	17	1915	3482	100	1	- 61		0		9	- 6	6.05	0.06	0.05	0	0
	-	Keeper	co-itSom	1975	root Hiteory	16		- 41	- 4	- 5	1 1	. 0		0.05	0.66	0.01	0	0
222	-	(Keiser	23	13511	3143	0	-	30	-	.0	9		1 6	0.05	0.05	9.05	0	- 0
地西班里地		Kettosember.	4	9119	1731	0		0	- 2	- 4	- 0	- 6	0	WIND.	100	10000	17.05	
201	1	Kathinanuare	18	\$572	1767	79			38	0	0		- 0	9	0	. 0	9	- 0
421		Ketitoster	18		1802	31	-	9	60	1	0	- 9	- 0	8.03	0.65	0.03	0	
200		Kurakamedby	16	6894	824	0		0	- 1	9	0	0	0	0	0	- 0	0	0
-55		Euthenut	17	##22	267	100	- 0	0	100	9	0	0	0	0	D	- 6		
566		Appliaments.	1	1150	- 251	100			100	-	-			1	10000	1		
207		Lobid-Penr	15.	_	-	_	_	_	_	_			_					
207		Nodempusia	13	WAY.	1330	75	0	25	0	- 0	- 0	.0	0	0	- 0	-0	0	
588 500		Stockett	16	7125	1320					0	0	0	0		0	0	0	-
100		Manuel	- 11	1925	1300	41	0	19	0		0.45	0	0	-		1	1	
100		bhodsost	16	11936	2101	50	0	9	0	- 9	0	0	0	9	0	0	.0	
201		(Mother	- 18	7924	676	79	- 6	108	0		0	0	0	-	- 0	0	1 1	0
207	1 3	Miletofe	- 16	7043	0	0	0	16.00	9	- 0	2	- 0		0	2	9	- 5	0
603		Microbat	18	9591	1819	9		0	0	. 0	0		0		- 1	0	- 1	8
601	1	htististamade	38	9704	21.15	- 0	1	.0	0	0	0	- 0	0	0	1-2-			100.5
805	100	Mathematic	11	8945	125	100	0	100	0	13	42	. 9	0	339.25	323.11	323.55	200.15	
800 807 603 603 605 605 607		17apalouery	17	9507	590	100		100	- 0	-12	21		- 0	-	-			9
	b .	Natiophly.	19	8095	468	100	0	100	- 0	0		. 0	0	0	- 6		6	D
BOL	1.0	Neficus	19.	200597	0.	-	0			. 0			_			-		

AL OSTRICT	LOCAL BODY	WARDS	No of Hamelota	% Hamsheld DED-Dey	Vi of Household- (122)-Wei	No of establishment	-BAD-Dep	M mistighmen _00B-Wei	% of house in which some level instructi	exaddistants in	To dispening to controlled apolitics	disposing to controlled system	Questily of Waste generated (199)	Quantity of Waste todiscond (TPD)	Quantity of Waste treated (TPS)	Quantity of Wester prevented in Composting Since (TPD)	Quantity of Waste prostrated in determinants an (TPD)
60%	Nellangada	10	950	97	100	0.	100	0		6	- 1	-0	0	0.	-	- 0	0
#10	Neromine	20	11833	2449	91	0		0	7.	1		- 9	150 KG	172 KH	172	8.	0
431.	Ongallur	23	12111	3163	99	. 0	32	.0	à.	0	- 6	. 9	700 kg	0	- 1		0
#IZ	Padlasseen	36	8433	268	. 03	. 0	12.		4.	- 0	- K	. 0		0	- 8	1 1	. 0
604 614	Prod	2.0	10797	2069	0	. 0	10.	. 0	- 0	- 11	0	. 0	. 0	0.	- 1	0.	- 6
614	Paradisir	.10	6082	728	0		- it	- 0	0	- 4	0	- 0	- 6	0	- 8	- 0	. 8
421	Pattanthery	.14	6828	110			- 6	0	0.	0	6	0	- 115	AR.	PIÁ.	46	105
621 628 625	Pattichers :	18	9467	1784	0		0	0	- 4	. 1	- 6			0	- 5		9
623	Personetti	- 14	9900	380	13		67	.0	0.	- 1	- 6	- 6	- 8	- 6	8	0	N N
G(E)	Peningettakaritai	.16	9534		0	- 6					0						
ATT	Paruventia	14	3757	100	- 0		9		0	- 1			500 kg	90kg		6	
620	Pinguini	- 21	15261	1959	0	- 4	0	1	0	0	0	- 8	1400 Kg	- 0			-
621	Populls	13	5390	490	. 0	0	0	1	0		0	- 10	300 kg	- 6	- 8		
621 623 624	Posteniene	- 0	4561	499	0	0	54	- 1	0	- 1	0		NA	NA	NA.	94A	NA.
(023	Pubukhode	.15	6294	- 6	0	0	0	- 0	- 0	- 1	8		NA.	NA.	NA.	16A	NA
AD4 :	Puthinggerers	13	4348	873	12	- 0	0		g g	-	0		196	MK	NA.	364	264
625	Poduggartyaram	21	12062	21	0	0	0		0		a a	2361	104	- 54.00	- Phys.	240	- 69
625	Polist	-	11002						-			2000					
627.1	Purtureri	21	18894	4002	0	0	Ú.		- 0		- 0	- 6	NA.	NA.	NA.	NA	MA
	Shelimir	14	1926	225	-0	0	B	- 6	. 0	- 4	6	8		- 199	100	100	- 70
629	Bresticabinguram	14	5280	390	100		100		79			-	539.25	333,55	323.55	200.18	100.5
610.)	Thechargues	13	5300	958	- 0	11	10	- 5	0	- 0	. 0	6	237.23	551/32	200.00	100/10	100.5
631	Thechanitukara	16	9083	170	100	0	- 0	- 4	0	- 6	0	- 5	111.6	17.2	NA.	NA	- 04
610	Thirty	10	2784	181	3/0	0	- 1	- 6	- 0		8	50	3 9354 com	3.8384 term	3.8354 tops	0	NA.
637	Thurkuru	17	1047	1064	-		- 8	-	0	- 6	8	- 6	2,8355 Cone	- A	0	0	- 5
	Therkunssi	12	8248	820	72	0	54	- 8	- 6	0	. 0	8	0	- 0	-		-
631.	Thirumitaliode	19	\$300	420	- 1	- 0	- 6		0	- 6				- 5	- 6	-1-	
625. 637	Thiravegappure	19	1084	1901	. 0	- 6		8	- 6	0	0	- 5	0	- 5			
637	Thriskaderi	10	6698	279	0	9		- 6			8		. 0	- 5		1	- 9
638	Thrirbain	17	8428	401	- 6	1 1	-	- 6	- 6		0	- 6	\$ total		9		
	Vadskiesquarty	17	1068	W12	20	- 0	10	- 6	3	10	- 0	- 5	A stone	7,6556	Piene	-	0
1004	Veiblingstern	30-		629	-	- 8	20	16	Per	10		-	£1600	0.25	1 things	-0	
10000	Victorional	12	5074	110	- 1	1		8	- 6	0		The second	-	-	STATE OF THE PARTY.	100	DESCRIPTION OF THE PERSON OF T
667	Vallaguarha	16	1121	1547		- 6	8	6	- 8			-	- 0		- 0		
HO HA	Vandezhi	19	1004#	718	90	. 0	26	- 0	70	20			0	0	. 0		-
GAR (	Vanisankulus	- 18	10099	815	- 2		- 20	8			- 5	- 2	0	4	0	- 5	
90	Veffeeshi	10	5147	281	106	- 3	100	0	23	74	- 0	- 2	31009kg	3000kg	3506	- 4	. 0
640.5	Vilvae	13	6953		100		100	. 0	100	100	- 6		840	500	600	850	- 0

NO:	SHISTRICT	LOCAL BOBY	NO OF WARDS	Ne of Historista	Nesschafd N2D-Dry	Mad Heurdeld ROD-Wei	No of ministrations	Nembinkom -B2D-Bey	nanchiberana Billi-Wes	% of house in which source lovel treiment	N of establisheepit in which aware level treatment	Vs disposing to controlled system	Copposing for contradical system	Quantity of Wasts generated (1990)	Quantity of Wests collected (TPD)	Quantity of Wester treated (TPD)	Quantity of Waste grassessed in Correcting Sites (TPD)	Quantity of Waste protected in historic on (TPD)
847	M	Alumbedu	19	11127	300	75	25	-3	0.	0			W	_	-	-	_	NU
648	A	Afgaminho	- 11	11611	1962		0		0	0	0	e.	0	.05	0.08	9.05	.NA	NA
649	6	Amerentelan	19	2841	101	100	0	100	0	.0			- a	0.045	0.045	6.043	0,045	340
650		Arakkayes	13	15424	105	100	0.	100	0	D.	0	- 0	0.	0.05	0.00	8.85	0.01	360
671		Azgatiguram	23	15220	4205	79	29	90	18	50	30	5b	36	0.05	0.01	0.05	0.00	, Mil
681 652		Aretkkode	19	9526	4778		0	0	0	1))	10	0	0		103			
443		Atheografia	12	12143	3512		0.	0	0	18	22	0	0	0.04	0.04	6.25	0.18	NIL.
854		Chaligat	14	6341	267	100	- 0	100	0.	12	10	0	2	0.62	6.02	0.02	0.03	0.00
655		Checkhode	18	7770				-				177	-	0.075	6.03	0.00	0.00	0.01
656		Chilambra.	18	10601	1996	100	0.	- 0	0	10:	1.	-0	0.	0.005	0.005	0.005	6.00	rd .
654 655 656 687		Checkenwoden	19	6540	#20	100	- 4	100	0.	0	0	n.	0	0.005	0.035	9.035	0.00	0.60
658 859 860		Chesokayu.	19	11062	426	100	0.	100	0	0	0	- 0	0	0.045	9,041	sil	ni .	101
159		Chokladu	-18	9284	254		-0.	0.	0	0	0	0.	g.	. 0	0	0	- 8	2
660		Charletons:	20				-		Ti-					0.09	6.01	0.09	0.09	pil
WI.		Eziskiara	36	8675	#85	73.	0	.59	0.		- 25	- 10	1	0.033	0.055	0.055	0.011	0.055
962		Edward	19	9439	2407	100	- 0	36	0	14	1	0	0	0.04	0.06	II.D4	0.04	0.04
161		Directoria.	13	4916	110	12	- 11	100	- 1	27	1	0	0.	0.006	19 (3%)	0.1	2	.0
1104		Education	76	6500	NO.				-	77.		-		- 1	0	0		0
865		Edeventa	12	TITAL	1906	92		70	- 40	100	- 1	-0-	0	:0.00	0.06	0.06	0.06	0.06
666		Edwyt	15	8700	(79)	29		0	0	7	- 0	-	-	9.7	nti		-	-
667		Elizabatan	15	7919	316	45	0	83	0	45	111	0	0	8,05	0.01	11.04	SI	Mi
608		Establishmen	13	6018	1730	6		ő	0	1	0	0	- 0	1000	- 631		200	
069		Kaladi	16	2529	1964	24		13	0	0	0	0	1	0.13	611	160	162	60
474		Katifons	19	10210	470	0	0	0	0	et.	70	0	0	0.000	.0	0	- 3	a
675		Katankanhuy	15	9541	1364	- 4	0	- 6	0	0	- 1	0	0	0.003	0.031	0.035	- 5	1
672		Karmantangulain	28	10141	2793	30		30	Ü	70	10	0	0	1	11	1.2	0	9.
621		Kanalai	35	5623	220	100	0	100	0		0	0	7	0.05	0.01	E.05	0.01	0:00
07A		Kennanahhuad	21	9961	201	6		9	- 0	_			_	0	- C	0	- 5	- 6
675		Kavanneer	19	9580	-346	4	0	0	0					_		_		
676		Keeshetter	19	838T	1545	. 64		33	0	38	1	.0		0.06	0.5	4.3	- 5	- 4
677		Kendagonathy	14	6058	367		0	-0		- 11	8	0.	- 0	0	.0	0	0	- 2
200		Trafficer		=20090u	and the same	NAME OF TAXABLE PARTY.	Committee of the last of the l	era di	Control Control	missilano			La Company			7.0		
679		Koottiingati	.19	10058	3224	100	- 1	100	0	- 0	0	0	0	0,005	0.035	-0.603	0.031	566.
662		Kurus	32	11105	3813	60	15.	70		.00	.10	- 0	1	0.04	0.04	II De	0.04	- 0
681		Kutigguten	D	17613	3568	65	-0	75	- 5	35	70		0	0.045	0.043	0.045	0.045	- 0
682		Kushinanna	18	9400	342	60	0	80	0.	40	40	0	.0	0.025	0.003	0	- 0	- 1
683		Maticaragariamity	13	5967	706	100	0	100	0	0	. 0	g.	0	0.2	6.5	5.1	0.2	0.003
654		Marchael	19	9950	120		0.	- 3	0	- 10		0	0	0.3	6.3	0.3		D
683		Mangalam	26	7866	7656	100	324	324	100	65	100	- 0	0	0.02	0.02	8.02	0	THE STATE OF THE S
688		Minkeds.	18	9845	200		0	100	0	95	100	o o		0.1	0.1	p.1:	. 0	- 11
687		Marshark	20	7715	340					.46	159	-		9.5	0.1	0.5	0.8	.0
628		Managinery	78	10099	2291	100	6	- 5	100	100	109	-	- 4	3.5	0.3	0.3	0,8	0
ART		Melanur	76	9400	127	60		21	100	35	60	-0-	-	0.02	0.01	9.92	0.00	0
694		Moontdyur	D	14430	584	60	- 0	Ab	- 0	10	1	0	0	0.01	0.01	8.03	1	. 0
691		Montkends	19	8453	385	. N.	29.	79	200	0	- 6	- 0		0.15	0.79	300.	0.1	NIL
692		Managur	19	8348	10	10	- 6	100	- 0	1	- 1	60	100	0.15	0.11		0.12	0
693		Mathedam	11	7140	304	100	24	160	- 0	24		0	100	0.1	0.1	0.1	0.01	- 0
634		Mathesiter	19	634T	107	73	23	00	40	99	100	- 2	-	0.5	0.5	0.5	21,3	- 8
695		Numerobia	-21	9300	3000		0	- 0	0	0		- 6	-	6,653	0.002	- 0.5	0	8
#9¢		Nanagarakhu	17	6732	400	48	0	100	0	NB	1	- 0	- 6	0.02	25	- 6	0	

SL NO	DISTRICT	ECCAL GOOV	NO OF WARDS	Ne at Messetional	Mi Meinsteld 020-Dey	No. of Hymotolo- 010-Wat	No of putablishment	-000-0rg	estellations _020-W-a	N. 4Thinnes in schick source food testment	N of establishment in which some level treatment	Ni atoposing to assorable of appless	dispessing as sentrollard system	Quantity of Waste generated (1790)	Quantity of Ween collected (77'0)	Quantity of Woote (moded (TPS)	Quantity of Warm province in Compositing State (TPD)	
697		Numerather	17	7969	1150	- 6		0		0		- 0	0	8.00		d-	-	
699 100 101	3 )	Ooken	19	7995	25%	11:	0	16	0.	0	0	- 0	.0.	0.075	0.071	-6/025		0
699	ė N	Octobbroad	20	10666	2664	96		100	0	90	96	50	40.	0.000	0.03	d.	0	0
700	8 0	Other	196	7096	252	.36	16	.40		38	60	U	10	0.003	0.01	0.		0
101	6 0	Pathibal :	22	10642	4281	-0	3	30		0		· G	D:	0.00	· G	d.	0	0.
702	114	Pandhist	- 23	11510	402	D.	96	0	0.	0	0	.0	0.	0.1	0	.0.	- 6	0
702	) 9	Parappai	19	8974	1019	0			0.	Ü.	0	0	.0	- D	4	0	0.	- 0
704	7 23	Perumenes Kleri	10	7333	2123	1	0	.U	0	- 3	1.	0	0	. 0	- 6	. 0	- 6	
200	9 3	Регитрабарри	18	8.627	1047		2	.33		2		. 0	0	.0	a	0	- 0	11
200	) 3	Prometur	10	.9124	30	75	30	.0	0	D	- 30	0	0.	0.05	0.04	. 6	-0	
707	1 9	Potmils:	18	101	1302	0	0	. 0	0	Ti-	. 0			0		6	9	10
319	B 19	Pontneyfam:	10	#852	329	100	100	.40	20	.0	- 2	- 1		0.05	0,65	0.01	- 0	- 6
700 700 700 700 700 700 700 700 700 700	5 (1)	Dept.	17	4076	[ANT		0.	- 0	0	-W-	0	0	0	9.1	0.03	0	0	
710	8 9	Firstokalls	17	11421	728	- 6	0	. 0	0	- 1		0	0	0	0	6	0	0
23.1	8 18	Pokettie	19	6785	689	- 1	0	. 0	0	D.	U.	.0		. 0	0	0	- 0	. 6
7/2	) 3	Paremarchial	20	13499	13000	12	10	25	21	2		- 76		9.61	.0	6	1	0
7/1 7/1 7/1 7/1 7/1 7/1 7/1 7/1 7/1 7/1	1 3	Pulikkal	21	10949		3.	n			.0		0		0.00	0.60	0.02	0	0
794	1 3	Fi/patts:	111	11886	7,187	106	0	100	0	0		0	0.	0.00	0.01	0.00	0.	-11
713	1 1	Bentut	70	W959	1689	100	100	40	0	25	- 0	0		0.015	B.60 E	0.015	1	- 11
715	1	Portist katheri	17	9190	340	100	0	000	0	- 10	29	(00)	100		0	3.5	0	.#:
7),7	5 0	Thulabhadu	10											0.64	0.015	6	0	- 11
7,15	9 9	Thursday	23	19807	1438	199	0	10	. 0	*	0	- 0	0	0.05	0.06	0.00	0	- 0
719	9	Theoreter	18	10047	800	1/90	0	100	0	34	40	- 6		0.16	0.11	0.12	. 0	
220	9 9	Thusbakkode	23	10080		100	0	.03	0	64	0	- 0		1.1	131	0	- 0	
22.t.		Throtopolera	14	99(1)		9	0			69				. 0	0		0	
722	9	Thennala	1.7	1,07	ų.	6.	0.			100		.0				- 100		
723	5 3	Dizunateye	- 21	12052	10021	83	0			. 0				- 5	- 10	. 0	- 0	0
724		Through	16.	7182	36	100	0	- 0	0	92	63	- 6	6			6	- 6	
125		Thrikkeletgode	.23	14003	206								1 - 3 - 3	No. of the Lot of the		1000		
719 720 721 722 723 724 725 727 727	9	Thrapprigeds	31	E\$76	1100	1/00	6	40		65		- #	- 8	6.73	0.63	. 0	0	0
727		Tavela	17	6500	220	156	0	106	. 0	45	. 0		- 6	8.35	PERM	- 8		0
	-	Linearing	-	11086	7205	THE REAL PROPERTY.		- 0.00			and the second	-						
22	- 4	Valanannai	19.	2639	2132	100	0	100	- 0	-	0		4	0.025	6.03	NA	5.65	NA.
120		Vellakonny	.01	12999	2715	100	8:	100	- 0	35	25		6	0.35	0	NA.	0.1	38.6
24	3	Verteblishern	19	10307	6955							33.				200	-00.00	0
1/2	- 3	Vastukkod	19	13645	3450									The same	Kanana Ale	2010000		di di
33	1 1	Vazhasau	17	3403	2216	100		100	- 6	100	199	- 0	0	0,18	0.11	0.14	0	-0
144		Varhickwawo	23	14(4)	2010	0	- 1	- 0	0.	0		0	0	16	11		0	0
25		Vetimesines:	18	R22)	2081		-							10000		-2000	76-0	H
26	- 3	Vergare	23	10852		0	0			100				JNA.	NA.	NA:	NA	NA.
47		Vetation	16	77777										.25	20	14	13	15
46		Vettore	20	4513	1892	100		0		0		0	0	- 1000	355	. 0	.0	0
729 730 731 732 734 735 736 737 738 738	- 49	Washier	23							-		170		Ns.	MA.	NA.	NA	NA.
140		Kaisalasy	10	953t-		100		100		100	100	- 0		0.7	9.5	0.5		- 0

SL NO:	DISTRICT	LOCAL BORY	NO OF WARDS	Ne of Hemetold	Newstoold B2D-Dry	% of Homefisid- thtill-Wet	No of establishment	Mentshistoreni -BZD-Dey	estpélulierant _B2fe-Wer	No. of Decease in which source level instances	th of establishment in which asseze level breatment	his dispusing the controllind system	to entrained against	Quantity of Waste greenand (TPD)	Quantity of Wester pullerand (1770)	Quantity of Waste trusted (TPR)	Quantity of Waste presented in Composting Sites (TPP)	The second section of the second
741	к	Arrikkalam	п	400	1179	91	. 0	- 11		33	30	- 31	10	15 kg	Dig	15.ka	- 0	-
742	0 X	Attely	it.	7193	CMSH	31	34	41		- 19		79	WI.	SEKODAY	20 KG/DAY	ADD/DAY	(#)	
743	it	Aponsheri	1.1	E154	2957	. 11	.8	0:	-0	2015	2%	100	1	LTON	3.70N	1 TON	0.	
766	17	Action	10	7900	361	-63	-0	801	2	186	100	0		ambounder	FDOKarite:	899545tg	- 0	
745	K	Belween.	i.r	9779	1715	107		34	10	96	80	0	. 0	(200 kg/day	1200 kg dky	6200 kg Aleo		
140	30	Childiogram	13	6918	1001	30	18	.39		90	10		9	DEGDAY	20 KG/DAY	(XX) KG/DAY	(4)	
747	*	Clargeon.	19.	-9963	2737	100	0	92	34-	44	- 11	0	- 0	25 Kg/day	25 Kg/ day	25Ka/day		
746	1 2	Chefrenewoller	25	15068	3706	34	0	- 10		34	13	0	. 0	30 kg/dw	20 kg/liter	22 Kardsy		1
749	36	Chekkind	13	6544	1822		0	1	D	1	g g	0	- 0	S tow	7.000	0	- 8	
750	3	Chellimyt	21	13483	2230	- 8	70	4			9.	8	- 0	26kg/ds:	309g/dy	100	- 4	
751	E 11	Cheminandrary	20	11111	3090	3	.0	0	D			0	- 0	1589	TARROUNDERLY	HANGUAN	- 0	
752		Chergotukara:	17	8990	350	1001	- 0	310	-0	53	\$17	0	. 0	3 TPD	5		0	
7/3 7/3 7/3 7/3 7/3 7/3 7/3 7/3 7/3 7/3	E 3	Cheurateur	116	6772	1463	50		- 0	(0)	10	0	0	. 0	47	4T	.0	- 0	4
754	1 3	Charrade	2.1	iptre.	\$60	30	1			11	1	6	0		4	0	- 4	
753	L 33	Eductory	17	1936	5(4	100	. 0	19%	- 9	19.	146	.0	. 0	5 me	5100	.0	0	
7,56	9 4	Eramids	19:	9437	2001	79	. 20	100		81	120	0	.0	290 kg	240kg	0.	2404	
757	1 6	Kadylundy	11	00743	2833	74	0	- 45	0	42	п	9		10 YOUNG	19 YONE	-0:	- 0	- 6
758		Colonia	33	12913	2431	100	- 0	41		- 31	- 4	.0		0.15 TOME	2.25 TONE	- 0.	- 0	- 0
7.59	B 16	Eathar	13	1999	1161	-76	- 6	- 61	T	1	0	0	- 9	720	126.60	- 0.	120KG	
760	5 0	Kennery	10	9968	2001	59	- 0	100	Y	- 1	0	0	. 0	9,1	0.1	- 6	0.	
761	8 8	Kuttgara	13	1665	2004	0	- 0		. 0	- 3		0	- 0	110ig	545.00G	- 9	- 0	0
767	E #	Keyfurnpara	10.	7473	2028	67	-0	51	3	100	- 46	- 67	-0	0.21 Ton/Day		. 0	9.	0
763	5 0	Kayshkody	18.	8140	1351	.79	0	47	- 31	155	101	g .	- 8	199KGDAY	DRIKGIDAY	. 0	0	
764 7W1	E 1	Karates	13	4410	624	- 71	. 0	100	.0	196	100	9	. 0	- 65	81	- 8	0	- 0
765	5 5	Kenhutsur	1)	8539	y90	9	0	0	0		6	0	- 0	0.05	0.19	0	0	0
766	8 6	Kinhtkhorh	18	0143	3773	-86	0	57	0	NS.	10.	0	. 0	10.9cm	10574	- 6	0	0
767	8 19	Redundery	21	10548	315	38	0	100	0	10	100	0	0	10 KG/by	20 KG	-	- 0	0
768	-	finfortheir	16	(38)	67(8)	350	and the second of the second	THE RESERVE OF THE PARTY OF THE			190		- 4	210kg	0.7330		-	- 1
780		SALES AND STREET, SALES	-11	1000	and the same	andiene.	- Maryerson	Contract of the Contract of th				- 4		0.3 sos/day	inn/day		6	- R
779	F 8	Koomshout	- 13	1993	1769	40	0	0	.0	-70	60	0:	- 0	339	300	-8-	0	0
771	8 8	Kijettivli	0	37)7	412	18	0	9.	0	0	0	0	. 0	200	150	-2-	0	9
777	B 3	Keess	11.	7830	1050	70	31	43	33	100	100		D	(Illikg/day	100kg/fee		5	9
773	8 6	Reveniencement	23	13434	QQS	9	. 0		0	100	100	9	. 0	650 kmMay	423 kattley	777777	-	9
774	8 1	Konoretal.	13	5668	2124	106		100		500	100	- 5	.0	int Kg/Dep		140 Kg/ Des	1	0
775 776 777		Konportue	18	11425	2015	0	. 0	300	45	.80	CI.		- 0	#00 Kerthey	400 Kg/Day	400 Kg/Dar		g.
776	5 3	Kunindy	16	6063	491	49	. 0	190	0	100	150	. 0	. 0	170 kg/Day		155 Karlbox		
777	8	Minhayour	17-	T)26	1383	100	0	29.	0	12	1		70.	200	230	230		- 6
778 779	3	Medpe	31_	12421	1412	35	.0	445	. 0	3.				2.5	Light Cataonia	1		- 0
779	3	Masshotkers	14	8762	601	100	0	68	- 0	(41)	- 11		3	130K 0./0m		this has Dec	-	9
742 761		Mesos	18.	9007	1190	65	-0	60		- 11	12	0	- 3	122 Kg / Day		100	0.	
781	1	Micpejur	- 17	2308	1840		- 0	100		86	100		- 8	0.1	0.18	0:18	- 0	
762	1 2	Mondati	18	#394	2384	100	. 6	100		92	100	- 0.	. 0	126 T	J.H.T.	130 T	-57	4
783	1	Madepurare	22	11000	1960		- 2	*		100	100		8	5.3 son per- day	4.0 ton per day	0		
254		Medusynor.	16	7950	2090	- 80		80	- 0		33			8.50 100	2.50 tos	- 6	9	0

1.58.69



SL NO	nestasc	T LOCAL BODY	NO OF WARDS	Pio of Historicals	No. Hyperchald 020-Dry	No of Hospitals D2D-Wes	Ne of establishment	Nenistidihermi .ib20-Dey	entsidudament "fizīb-Wes	Vs. of because in which source fevel restauras	54 of establishment in whick source in al irealment	% disposing to controlled system	disposing to controlleral system	Quantity of Waste generated (TPO)	Quantity of Waste milested (TPD)	Quantity of Wests treated (TPD)	Quantity of Wasts processed in Competing Sites (TPD)	Wester processed in
781		Playrints	17	8780	1193	100	- 4	100	- 1	100	100	D	- 0	HOY	NOT	0	- 0	- 00
7,84		Pierfebani	100	8302	2009	.0		217	- 0	73	10	0	0	-	NOT	NOT	nor	-
182		Placippatia	17	7929	1236	36	1	- 28	0	10	190	0		HOY HOY	NOT			NOT
788		Norbal	17	10000	¥30.	40	- 0	29	0	12	70	0	0	NAME AND ADDRESS OF THE OWNER, NA		NOT	NOT	NOT
289		Olevente	B	(853)	6566	. 0	0	0	9	15	65	- 0	1	Not research?	341246	5413 kg	NA.	
195		Organiery	IV.	10017	3619	37	0	. 0	- 1	83	79	- 6	- 6	Not massured	13 TON	2.5 TON	Descriptions of the same of th	Nis messores
T\$1.		Onchiyum.	17	3945	2176	100	0	- 19	0	70	26	0	- 0	2.7	2.1	0	- 0	- 7
姓		Pananged .	20	1016	1909	- 63	U U	73	0	93	16	6	- 8	Not measured	2.5 ms	3.3 cm	0	- 1
750	1	Proxestos	- 19	1040	1439	95	- 8			85	48	6	- 1	ment introduced.	4.5	4.5	0	- 1
764		Portureanna	18	11633	1012	92	. 0	14	. 0	80	0	0	. 2	0,90 ton	8.90 can	8:96 san	- 0	- 1
781	l	Prosevegal	22	15467	13.18	100	. 0	100	0	100	100	D.		3 ton	5 ton	5-100	0	
胜		Personed	17	E256	TMB.	24	0	401	D	1.06	100	. 0	- 3	9.20/0.16 ted.		. 0.		
167		Pothaggady	21	14588	3269	118	8	300	0.	130	- 6	0		5.100	5300	0	. 0	. 1
758		Theutselether	- (7	1978	(120	75	. 8	- 0	.0	71	1	0	- 4	Aspe	4 ton	. 0	0	. 5
1000		Thorogrammy	10	9750	1A32		- 0	54	84			. 0	3	8.74	5.74	5.74	- b	- 3
IDE -		Thikkedi	17	9561	(826	1	- 8		0		- 0	0	1	5 ton	5 500	Links	- 0	. 0
602		Thinestar	20	9493	2793	150	0	- 4	0	. 0	. 0	. 0	. 8	13	14		- 0	- 10
801		Thinwantudy Thursput	13	1940	1118	100	0	100	0	18	34	. 0	- 9	5.5	3.8	3.8	0	. 0
875 J		Tunni	15	7067	1377	- 5	0	- 0	- 6	- 1	0	- 0	65	9.7	0.18	9.18	- 6	
(0E)	1	Utiyer	19	1958	3363	- 8	0	286	0	300	44	40	0	747 5101 M3	747.5161.4EE	347 5161	B	
106		L/mrku/am	23	13779	3355	d	0	100	0	100	100	9	9	200 ton	200.16tm	- 4	0	-
M07		Valuan	14	4485	997	56	0	- 10	- 0	500	30	D	- 8	6.05	6.54	0.85	- 0	-
DOB 2		Vaccinal	1.6		2035	100	D	- 10	- 5	100	100	- 10	- 0	13-94	15kg	15 kg	0	
lov.	Į.	Velori	127	6754	2936	100	D	100		100	100	D.	- 2	130	jes	tek		
ija (		Viliagneti	19	1162	3493	60	0	#0	- 0	100	45			8.2	- 5	- 3	. 0	
ELL)	16	Aphalamasi.	20	10291	4579	33	- 8				- 0		. 5	4tone	3 Den	Jone	MI	
112		Syleyske	- 10	9519	764	- 15	. 0	80			. 0	.0	.0	4 some	5 tone	2.000	3 tons	166
(O)	*	Kanyardama	18	11791	2207	24		18			0	. 0		I team	& tone	2 Note:	3.take	- 60
100		Kenshara Menargadi	13	9979 3293	548 637	87		100	- 0	106	308		- 8	NA.	NA.	N/A	HA	788
SIA.	_	Meuss	19	6735	1000	100	. 0	(8)	-	100	100	-	- 0	-	-		12	-
117	B	Mislaskety	22	10510	815	100	-	100	-	36	76		.6	- MA			NA.	200
iiii	17/2	Museumely	18	6156	952	10.00				0	- 5	-	0	1.2.mer	1.2 mos	0		0
COP-		Middl.	19.	7667	3.75	199		100	- 0	100	100	. 0	0	5 turns	2.5 mem	3.5 tones	3-1996e	- 0
Q#		Mesteri	10	10002	680	100	- q-	100	.0	100	100		0	10 inve	7 tone	Tittee	0	-
(21)		Neelpusta	23	14753	703	38	g.	100	100	100	500			4 Tone	3 Tone	J.Tsee	3 York	- 0
02		Pedichershers	IA:	6524	472	100	-0	100	0	13	38	7	1000		LAST TONE	9	. 0	
92		Panamaram	16	7246	347	85	13	49	. 0	D	. 0	- 10	. 0	The Control	ALTO CASE OF			
124		Postbadi	23	15742	400	100	:0	46	. 0	. 0	- 0	- 0	. 0	0.06	0.05	18.305	. 0	-3
01		Controllers.	11	5763	2004	38	.0.		0.	106	100	- 9	. 0	3 to 6	I tone			ILS care
127		Philopalli	13	10437	3197	30	. 0	13	- 0	- 0		- 6	0	1	1	2:	1	.0
Car		Thurisda Thurisdal	12	3571	360	25	. 0	100	0	- 0	- 4			266	JiA.	NA	MA	NA.
129		ThiruseDy	17	8520	1409	25	0	0	- 0	100	100		11.5		1	NB.	391	NII.
196		Thonderhadu	15	5987	1320	42	0	30	0			- 0	- 0	-				
		Volleguards	21	11620	1439	7	0			. 0	. 0	- 1	_ 0	2Tene	2Tone	M	.161	NE
Bj.		Yempappali.	13	2730	195	09	9	100	- 0	- 8	-	-	. 0	33	. 1	- 1	301	Mil
01		Verbin	14	8086	1582	100	0	100	- 0	0	- 100	. 9	0	1.5	1.5			
134	N.	Alakoda	21	2600	PINE	100	0	100	-	100	100	108	100	50 kg	50 kg	303g	25 kg	- 0

\*\*\*\*



SL NO:	DESTRICT	LOCAL ROBY	NO OF WARDS	No of Hessebald	Hemetold B2D-Dry	% of Howanote- B20-Wes	No of extatilihment	-D2G-Dry	nstantilbream B2D-Wes	The of Bosones Service Street Bretsman	% of establishment in which necess layer breakment	To dispessing to controlled system	disposing to controlled system	Quantity of Wester provented (TPD)	Quartity of Waste selected (TEN)	Quantity of Want treated (TPB)	Quantity of Wests presented in Compositing Sites (TPD)	Wante precessed in
933		Asjections	19	8471	709	100		100	- 1	120	106	-	-	130	0.04505	1.30		-
976	- 14	Attiven	17	8215	289	100	- 1	100		100	166			1.88	0.63244	1.00		- 6
976 977	W =	Aygielnome	16	T548		100	- 2	100	18	130	100	0		1.54	0.00457	1.54		
97e	×	Azhihode	20	13406	160	100		100	- 0	100	100		- 4	1.73	0.04629	273		4
979	10.0	Chappanappadava	19	16295	210	100		100	.0.	100	300	- 6		2.00	0.04264	100		- 6
540		Cheekilode	10	8700	361	100	. 4	100	- 4	100	100			-0.77	0.03226	1.27		. 0
341	E 3	Changalai	18	10216	376	100	1	100	. 9	130	100		1.00	3.86	0.04931	1,89		
840	B 8	Chmikansa	13	4506	550	100		100		520	188			445	0.00346	0.45		. 0
843		Cherigraphs:	10	8038		100		188	- 1	100	100		- 2	1.65	0.04071	1.85		
944		Constitution	17	12000	826	100		100	- 0	136	100			133	0.04269	1.22		4
845		Chinklai	23	14173		100	3	Im	- 8	136	300		- 2	190	5,550	294		
846		Chitterpeounts	19	7131	370	100	3	-10	- //	136	386		- 1	146	9,957.8	1.48	-	- 5
947 948		Chakii	17	A343		100	- 1	356	-	156	188	8.	- 1	1,74	0.04109	120		- 6
51E		Chareadure Statemen-Kunsen	10	TO15	874	100	- 1	100	2	100	100		-	2.24	0.04178	234		
540 550		Erachen	10	8224	462	100	1	300	- 8	100	100	- 6	-1-	1.46	0.0364	1.84		
55)		Enureasi	14	100	100	300	-	200	W	106	100	- 1	- 1	1.00	0.02243			
853		Exhan	16	4267	472	100	1	300	0	100	186	-		1.00	0.02016	9.48		
003		bikkoor	12	3656	700	380	- 16	100	0	100			- 1	0.71	0.02363	0.78		- 6
254		Kadembook	12	4525	#50	100	- 2	200	0	106	120		1	0.63	0,02254	0.69		- 6
777		Kahengaly		- 1000		405								-3452	2000			
833	6 6	Pungpustia	900	1591	567	100	- 0	196		100	100		- 1	129	0,9407	1.74		
856	1	Kadnus	10	7934	94	100	0	200	- 10	100	100		1	1.82	0.03161	1.52		
857		Kahisuseri	10	1670	950	100	- 0	290	- 0	100	300			3.11	0.19394	3.71		
858		Kanuba	32	3004	276	100	0	388	- 1	100	700			7,525	0.01954	1.02		
633	3	Karini-																
4.00		Napodente	34	3778	300	100	- T	400	- 10	309	200		- 1	338	0.04429	244		
860		Keenguran	14	8214	166	386		200		100	.100		. 9	2.81	6,30778	1.00		
863		Kartylloor-Perlant	56	8629	810	300	.0	300	- 18	300	300			6,43	1.0003	4.33		
862		Kelanen	1/2		514	300	0.	100	00	110	100	1	- 4	1,1	0.00482	1,7		
665	E	Kendulat	54	6266	616	100	- 0	100		100	100	1	- 1	201,61	5,3696	7.41		- 4
	-	Reserved.	nest/one	-	minus 201			200-	-0	101	100	-	-	1,82	176546	1.12		
865 866		Kelmad	16	150	465	386	. 0	300		300	100		- 1	3.51		3.11		
900		Kontell.	- 18	1625	512	)100	. 0	100	.0	100	100		- 1	1.79	0.03100	1.76		
868	5	Kosuvan	14	4723	1400	300	.0	300	.0	100	3100		- 1	0.44	0.03987	0.88		- 6
160		Kirthyper	34	1295	810 M07	100	0	100	0	100	10	-	- 1	1.50	0.02401	1.00		0
847 870		Kuntenangalan Kunnotiparanita	21	71494	100	100	0	100	0	100	100			302.63	0.0399	451		0
871		Kyromathour	17	11252	816	300	0	100	D	100	100	1		2.1	0.05344	13		
KT2	E 3	Konienic	58	8366	3131	300	0	100	0	100	100	-	- 1	134	0.05851	121		0
873	2 3	Madayi	28	8574	525	100	0	300	0	100	100			1.00	0.04378	1.86		
¥74		Malapatient	13	3607	100	300	- 4	300		LDH .	100	4		9,93	6.court	0.60		1.0
675		Malant	16	8214	426	100	-	300	- 0	100	160			1.62	0.00256	1.0		- 0
874		Magandan	18	10634	650	360	- 4	3.00	-	100	MW			4.17	0.03924	19		9
677		Matical	10:	8039	356	100	. 0	300	0	100	100		- 0	123	0.65871	129		4
578		Mayye	310	2043	PAB	200	- 0	100	0	100	100		. 0	1.97	0.04009	1.97		4
173		Moken	14	3791	440	100		300	4	129	Lon	- 6		5,68		3,0		4
988	6 8	Model	20	8979	380	386	- 1	zim.	- 4	200	100			1.00	9,690/9	1,6		-
181		Mutukkome	15	1412	1284	300		166	9	399	106			(,0)	0.04696	1.69		- 1
192		Madagaflanged	11	3509	230	100	15	101	0.	200	106	6		121	0.00198			1

SL KO:	DISTRICT	LOCAL BODY	MO OF WARDS	No of Household	Nounchatd DISI-Day	N of Hemorodd BED-Wet	Pro of sois Utstennes	-DID-Dry	entshiphenest _B2D-Wer	th of bosons in which course level tretment	No of entablishment in which source level translated	Ne dispessing to controlled aparent	disposing to controller cyclon	Quantity of Waster generated (TFD)	Quartily of Wasts collected (TPD)	Quantity of Waite instead (TPIs)	Quantity of Waste provented in Computing Sizes (TFD)	Waste percented in biomedianali
683	2 3	Nedovii.	10	8800	280	100	6	100	9	300	300	. 0		1.6	6.01722	5.8	-	-
684		Newson	.17	7621	2107	100	Ď.	100	g .	300	100	.0	- 8	1,50		1.59		0
185	8 3	New Maki	13	3417	450	100	D.	100	g	319	100	.0:	- 4	3,45	0.00258	8.91	- 0	0
185	1	Patiyoor	15	6400	190	100		100	· ·	300	100	0	0	1.3	1-01222	1.3		9
MI.		Extension	. 15	6692	70	3.06	- X	100	. 0	399	400	0		1.37	0.72998	1.37		
魌		Pappinister	.10	10560	680	100	9	100	0	300	100			2,57	3,05247	267		0
燃		Parisman	18	11079	110	100		366	- 0	350	100	- 8		2,47	5,05232	2.47		D D
890 891		Patrien	13	9152	540	100	- 6	200	- 6	390	100	- 1		1.07	2.0081	1.67		0
192		Patiorem	38	1962	227 470	\$60	-	350		100	100			0.81	9,01817	9.81		0
193		Faguster	ie	1894	496	300	- 1	300	0.0	100	100			1.57	0.02591	1.52		0
##4 ##4		Persiaseri	28	3930	403	100	-	300	- 6	350	100	- 1		138	0.00981	337		0
101		Persyon	že.	-8600	100	100	-	350		199	100		-	1.86	0.03302	1.36		0
196	1	Paringone- Vayskiana	20.	1072	250	259	721	309		500	100			833	5,027	8.50	1 22 1	-
191		Promis.	19	regree	001	200		300		300	100			2.06	0,04737	1.06		- 5
598		Ramarchall	19	9360	900	100		200		300	100	9	n n	2.15	0.04538	2.1		
199		Dellastosi	LE	4534	401	39.		200		100	300	y .	a	1,43	0.00000	1.43		0.
100		Thripanagettess	18	9070	301	300		300		500	100	ii ii	n	1.85	0.53218	1.65		
101		Udanapri	15	1031	254	300	4	100		100	300	9	ė.	1.27	0/807YA	1.27		
160		United	28	17954	238	300		100		100	300	9	a.	2.79	0.39470	126		
993	E 3	Valapaitanam	15	1906	3,554	100		300	4	100	100	9.	0	9.36	0.60991	135		
954		Vergad	71	12883	936	100	6	300		100	300	. 0	a	9.59	0.05244	3.50		0
205.		Asarur	23	18571	10573	- 88	0	790	80	0	70:	60:	0	0.04	9.94	9.04	0	0:
106		Hafiadka	19	17167	9654	75	0	670	40	0	0.5	45.		1227311	(CEST)		10000	357
107-		Halal	16	6585	4585	- 11	0	260	350	0	100	17	0	0.85		AIL	0.85	
HOS	n 1	Bededita	17	8826	6300	:10		633	100	0	RG.	16	0	8.2523	8.023	SOIL	0.023	81
577		Helioot	13	3424	2893	80		125	100	0	79	NO.	0.	0.0625	8:0625			
910		Chennal	23	15169	9169	- 60	6	436	76	0	1	45	n n	£20,000	0.154		0.	0
711	0	Openio.	23	18725	5368	29		1841	-10	0	98	85	0		d. A. steated at	- 0	0	0
111		Delumpath	196	3274	5274	100			- 24		- 16	AL	-	0.24	0.195	0.195	- 2	- Ann
714		East Sled	16	\$295	7395	85	- 1	453	10	0	90	79. 52.	0	8.004	8.604	0.906	nl.	-68
915		Entuksis	17	5535	4575	92		140	40	0	26	25	0	- 48	- 68	- 10	4	68
ote.		Kater	14	7013	6013	86		92	90	0	60	60	0.	ROIN	0.0133	0.0131	0	- 6
015		Katadka.	- 13	6183	5183	84		1324	70	0	60	85	0	0.012	9	0	-	
91.6	1 1	Keston Belor	- 19	K163	#163	75		630	45	0	36	79	0.					-
918	20 1	Kappu Chemen	16	9336	8356	81		636	85	0	84	90	0.	0	0	0.0	- 0	-
120)		Kanenor Kanedulan	17	50,48	7445	11		400	300	0	100	100		tto	100	100		
qi.	1	Kumbini	13	4655	2005	- 44	. 0.	100	199	0	89	95	- 0	0	- 0	.0	0	
123 123		Kueshele	23	12355	X500	69	- 4	345	- 54		54	35	-	- 1	-	- 4	- 4	-
923		Kuttkol	15	2230	5430	75	9	450	70		60	44	. 0	0	8:	0	0	0.
104 1025		Midhar	25	1279)	1)293	100		411	.52		56:	16	- 0		0.5	0	D	0
132		Madikal	15	6131	6331	100	- 4	217	100	- 1	100	100	0	0.7	67	0	- 0	0
126		Magalouty	23	12030	9500	62	2	2500	- 40		32	40	0	-24	-			-
27		Marjahwa	21	11500	5060	.51	- 4	399	45		46	-0.			100			
酰		Menga	1.5	7.00	7)13	100		166	54		68	73		0.7	0	. 0	0.7	0
929	- 1	Mogral Pullyr	15	7001	6011	86		500		0	78	88	0	0.2	0	0	D-	0



NO.	DISTRICT	LOCAL BODY	NO OF WARRS	No of Resorted	Name that of the state of the s	Wolf Household SQB-Wei	Ne of artifolishmend	Mestablishment -BID-Bry	% szistbibanni _100-Wei	the of theorem in settlets more: Ironi destronici	N of establishment in which course food transvent	% disposing to contrational operation	Tipesing to te contrained system	Quantity of Water generated (TPD)	Quantity of Wasse suffered (TFO)	Quantity of Waste mound (TPD)	Water present in	hismethoani
610		Malass	Y0:	7522	6523	- 07	- 4	207	70		- 11	94		0.1				
931 932		Pades.	13	6400	4400	- 69	- 9	120	45		67	17	. 6	9.3	- 0	. 6	0.2	1
903	19	Provide	19	H799	5700	59	- 0	260	42	- 6	- 0	71	. 0	0.3	0.2	0.2	0.2	
913		Patitions	23	131077	12377	82	. 0	544	90		34	96	- 4	9.05	0.19	6.12	. 0	- 0
894		Tenathety	16	7426	6426	37	- 10	361	95		10	10	0	0.73	.0	- 15		8.
922	. 0	Micody	16	6842	5917	17	.0	473	34		90	84		9.42				7.77
106	- 21	Pallet Pertin	17.	10644	2644	91	- 4	500	100		10	99	. 0	0.58	0.50	0.52		
937	- 11	Plathion	14	7079	5074	72	- 4	20%1	50	- 0	41	50	.0	1.09	5.09	1:09		
108		Titkerinat .	2)	11333	\$700	74		746	60		42	53		0.125	0.125			55.31
909	1 0	Udnis	21.	13332	9633	- 65		517	560	0	. 54	. 54.	. 0	0.13	0.13	6.15	. 6.	. 0
940.1		Vallysparants:	1)	M861	4800	10	- 0	100	900	3	54	70	.0	0.16	0.15	0.18	- 6	- 0
811 894 991 906 907 698 928 940 941		Vactority	10.	6934	4800		- 4	500	40		13	94	.0	0.56	0.16	0	. 0	0.
942:		Wast Elevi	18	6974	5474	-74	- 3	200	. 70	0	1.60	67	- 0	3:75	0.75	0.72	8.62	NI

#### **ANNEXURE III**



Telephone, 0471-2303644 e-mail: kspcbdotvm@yahoo.com

# KERALA STATE POLLUTION CONTROL BOARD



DISTRICT CHEPICE, THURUVANANTHAPURAM BY MONOTON, BY BENDONE ALLES

T. C. 1236 (4.4) PLANCED DE LA TEMPENATURE VANANTHAPPRAM - 603 (64) SOUTH 6/66 (4.8) graph montherst - 650 (4.8), effections on 650 (64)

#### ANALYSIS REPORT

No: 202176:

Date: 03/07/2020

Source	-	Dumpsite of Attingal N	Auncipatity (L	eachite San	nple)
Sample received fro	an:	TAI	Date of s		24/06/2020
Date of Rece	ipt	26/04/2020	Ref. 8	lo.	R14
SL No.		Parameter	Unit	Value	Permissible Line
Ä		pH		6.8	6585
2		Suspended Solids	mg/L	67.8	100
3		COD	mg/L	40	250
4.		BOD	mg/L	27	.30
5	1	otal Dissolved Solids	mg/1.	1356.)	
6		Chloride	mg/L	15	
Signature: .		THE THE	for.	As	
Remarks:			Moch	17/2020	X.
Scientist-in-Ch	water	of Analysis	AS	SISTANT S	CIENTIST .



# **ANNEXURE III**

Telephone: 0471-2305844 e.mail: kspcbdotvm/syahoo.com

# KERALA STATE POLLUTION CONTROL BOARD



DISTRICT OFFICE THURLYANANTHAPLIRAM

T. C. TERROLASS, PLANSFERDERS, PATTERIERO THEROVANIANTHAPERAM - 825-001 - 45ms, 1076-(4.3), ghogt markett, 11% who, the present margins - 835-004

#### ANALYSIS REPORT

No: 202175

Date: 03/07/2020

Source	345° +	Dumpsite of Varkala M	uncipality (Bi	ore Well Sa	mple)
Samp		TAI	Date of se	NAME OF TAXABLE PARTY.	24/06/2020
Date of R	eccipt	26/04/2020	Ref. N	o.	R1)
SL No.		Parameter	Unit	Value	Permissible Lion
1		pH *	世大	5.4	6.5-8.5
2		Suspended Solids	mg/L-	52.2	100
3		COD	mg/L	36	250
4		BOD	mg/L	- 6	3.01
5	1	otal Dissolved Solids	mg/L	96.1	
6:		Conductivity	S/m	92	
Signature			P	or As a	
Remarks:				3 7 202	0
Scientist-ir	n-Charge	of Analysis	AS	SISTANTS	CIENTIST

# **ANNEXURE III**



#### KERALA STATE POLLUTION CONTROL BOARD CENTRAL LABORATORY

കേരള സംസ്ഥാന മലിനികണെ നിയുത്തെ ബോർഡ് ചെർത്തിക്കുന്നുന്നു



#### **ANALYSIS REPORT**

Analysis Report No.	PC8/CL/1446/20-21	Date   22 Apr 2021	Doc No. PCB/CL/CHT-7
Ref.No.	PCB/RO dated 08:03:2021	Date Of Collection	93 MW 2021
Received From	R O ERNAKULAM	Date Of Receipt	03 Mar 2021
No. Of Sample	T A	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	31. playto pan
Sample preservation	As per APHA/ IS: 3025(Part-1)	Type of test	CHEMICAL
Sampling Point	Leachate drain		

Sample ID : BLD-GEN

SI.No	Parameters	Unit	Value	Test Method	Detection Limit
1	pH	1	7.6	APHA, 4500- H+B 4-95 to 4- 99, 23rdEdition, 2017	1
2	Chloride	.hgm	4573.0	APHA, 4500- Cl /B, 4-75 to 4-76, 23-rd Edition, 2017	1 must
3	Fisioride	mgrL	0.06	APHA, 4500- F.C. 4-89 to 4-90 23rd Edition (fon Selective Electrode Mathod) 2017	D.T. respi
4	Solphate	mg/t	1014:0	APHA, 4500-SO(2-E, 4-199 to 4-200, 23 to Epition, 2017	1-mg/L
5	Bulphide	mg/L	MR.6	APHA, 4500 S2 F 4-187 23xt Edition: 2017	-1 mgs.
E	Nitrate as Nitrogen	mg&	61.96	APHA, 4500 NO3 (B.4-127 ) 23 rd Estion (Litravinist Spectrophistomotric Method) 2017	0.05 mu
7:	Phosphuse	mg/L	58.9	APHA, 4500- P. E. 4-164 to 4-165 ,23 rd Edition 2017	a timps

GANDHI NAGAR, KOCHI - 682 020

womilmod, sange - errore

Telephone Nos. Direct: 0484 - 220 7781, EPARX: 0484 220 7783 - 86, Fax: 0484 - 220 7781 E Mail: kspcbclekm@email.com Web : www.heralaocb.nic.in Certified for OHSMS (ISO 45001-2018)

Page 1 of 2



8 Magnesium	mg/L	89.1	APHA, 3500-14g E 386 23rd Edition 2017	0.7 #git
9 Biochemical Oxygen Demand (BOD)	mg/L	4269.0	IS 3025 (Part 44) 1993	0.1996
10 Phenolic compounds	.mg/l	1.14	APHA SSS0-0.22nd Edition	0.001me
Checked on the symbol set signatory of the symple subtiten permission of the symbol set signatory of the			Another control to a	NOT TON

GANDHI NAGAR, KOCHI - 682 020

ഗാന്ധിനഗർ, ഒകാച്ചി - ഒഴാവം

Telephone Nos. Direct: 0484 - 220 7781, EPABX: 0484 220 7783 - 86, Fax: 0484 - 220 7781 E Mail: kspcbclekmdhemail.com Web : www.keralaocb.nic.in Certified for OHSMS (ISO 45001:2018)

Page 2 of 2





# KERALA STATE POLLUTION CONTROL BOARD CENTRAL LABORATORY

കേരള സംസ്ഥാന മലിനീകതണ നിയത്രണ ബോർഡ് കേരു പരീക്ഷണശാല



#### 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	Billian	Period Of Analysis	03 Mar 2021 - 24 Mar 2021
Source	Brohmaporam 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

Taxania and the Control of the Contr	SI.No Pa	acometers	Unit	Value	Test Method	Detection
TOOS CONTOTTO BY THE PROPERTY OF THE PROPERTY	1 To	ital Coliform	cfu/100mi	2400	APHA 9222 B, 23rd Ed 2017	Fefta/100m

- End of Report -

Chacked by

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

GANDHI NAGAR, KOCHI - 682 020

ഗാസ്ഥിനഗർ, കൊച്ചി - ഒഴാമാ

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Certified for OHSMS (ISO 45001:2018)

Page 1 of 1



# 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	$\mathbf{p}^{\mathbf{H}}$	<b>-</b> )	6.8	APHA, 4500-H+B,4-95 to 4-99, 23 <sup>rd</sup> 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 <sup>rd</sup> Ed.,2017	
4	COD	mg/l	448	APHA, 5520-B, 23 <sup>nd</sup> Ed	
5	Nitrate as Nitrogen	mg/l	7.4	APHA,4500NO3-,B,4-127,23 <sup>rd</sup> Edition (Ultraviolet Spectrophotometric Method) 2017	
6	Phosphates	mg/l	36.67	APHA,4500P,E,4-164 to 4-165, 23 <sup>rd</sup> Edition:2017	
7	Sulphates	mg/l	63.1	APHA, 4500-SO4 2-E, 23 <sup>rd</sup> 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 <sup>rd</sup> Ed., 2017	
10	Total Coliform	CFU/100ml	620000	APHA 9222 B, 23 <sup>rd</sup> Ed.2017	

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

COCHIN-20

Board Analyst

P. G.E.T. Ing.
Environmental Specifical
Central Laboratory
In State Four Control Box
Goodh: Nagari 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.,

Thiruvanathapuram – 695 004.

Copy to:

The Chief Environmental Engineer,



**<u>Before</u>** Drone image of Kureepuzha dumpsite before removing vegetative cover



Drone image of Kureepuzha dumpsite after removing vegetative cover

### <u>Instrument for baseline environmental study at the site.</u>



**Pre-Stabilisation** 

### **Inoculum Spraying**



# Windrowing



# **Loading for Processing**



### Weighing process



### **Various Stages of Segregation**



Conveyor



Trommel with 32 mm



Combustible separator



Cyclone separator (removal of fine plastic from soil)



Air separator



Fine soil and coarse soil outward



Refuse Derived Fuel material outward

# **Outputs after Segregation**





<u>Wood</u> <u>Iron</u>





HD Plastic Coconut waste





<u>Tyre</u>







**Chappals** 

Fine and coarse soil

# Minutes of the RRC meeting held by ACS(Environment), on 23.02.2022 in NGT Order O.A. 673/2018 and connected cases

The meeting via VC commenced at 11.30 am with ACS, Environment Department presiding. Joint Director, Urban Department, Deputy Mission Director, AMRUT, CEE, Irrigation Department, Deputy Director, Directorate of Industries & Commerce, Chief Engineer(Irrigation & Administration), Chief Engineer, Kerala State Pollution Control board were present.

The following matters were discussed.

(1)Decentralized Sewerage Scheme for Thrissur Municipal Corporation.

The proposed land is falling under the paddy land category and hence category has to be converted through the SLMC. The Chief Secretary in the last review meeting directed the Corporation to submit a detailed letter to SLMC and Govt. stating all the reasons. Deputy Mission Director, AMRUT informed that the ULB submitted the details to the Agriculture Production Commissioner (SLMC) & the Government (vide Letter No. PH3- 27162/ 16 dated 08/02/2022).

(2)Guruvayur Municipality- 100 KLD Septage Treatment plant at Chakkamkandam .

The ULB requested the RDO vide letter dated 15/01/22 for issuing permission for filling the land but vide letter dated 05/02/22 (Letter No. B2/ 8545/ 2020). RDO rejected the same. It is informed that the ULB is going to submit a request to the Government for according special permission to construct the septage plant at the proposed location (wet land). Directed to update the status.

(Action: Director Urban Affairs, Revenue Department, Land Revenue Commissioner)

(3)Kozhikode Corporation- Sewerage system in Zone A- Package A & Zone A-Package B:

Deputy Mission Director, AMRUT informed that Site clearance was done on 31/01/22 with Police protection amidst huge public protest but soil testing works could not be done. Way forward to be decided by the ULB.

(Action:Director Urban Affairs , Secretary, Kozhikodu Corporation)

(4) DPR preparation for Karamana sewer network: In the last meeting MD requested 10 more days time to finalize the DPR. Directed to update the present status. (Action: Kerala water Authority)

#### (5) Edayar & Aroor CETP:

(a) Aroor CETP:-

Deputy Director, Directorate of Industries & Commerce informed regarding ETP at Aroor that a complainant obtained a stay order from the Hon'ble High Court of Kerala, and the same has been extended further.

#### (b) Edayar CETP:-

KWA submitted the DPR for CETP preparation on 6/09/2021 with a total Project Cost of Rs.37.5Cr for CETP Construction. The annual operations and maintenance cost is Rs.10.76Cr as per the DPR. As per the direction from Principal Secretary, Industries to find a funding proposal with contribution from industrialists at Edayar, Ernakulam GM, DIC conducted a meeting with the concerned industrialists and inquired willingness from them to share the cost of construction of CETP at Edayar. The proposal for getting Administrative Sanction is currently with CTE for examination.

(Action: Director, Industries & Commerce & Industries Department)

#### (6)STP at Yakkara, Palakkad:

The Cabinet met on 02/02/22 decided to allow 70 Cents of land inside Palakkad Medical College Campus for the construction of the Septage Plant. ( Action: Revenue Department Land Revenue Commissioner)

#### (7)STP, KUREEPPUZHA:

Deputy Mission Director, AMRUT informed that Work is in progress. In connection with land issue, the Mission Director, AMRUT requested the District Collector, Kollam to expedite the issuance of valuation certificate of the land to be acquired. Land value certificate is awaited from Thahsildar's office. ACS directed to speeded up the matter.

(Action: District Collector, Kollam)

(8) E-flow of rivers:

E-flow calculation of Kadalundy, Anjarakkandy, Manimala & Meenachil has been completed. E-flow calculation of the rivers without dam (30 nos), including Bharathapuzha will be completed by 31.03.2022 and that of rivers with dam will be completed by 30.04.2022

(Action: Irrigation Department)

(9)Eviction of encroachments in water bodies: Action to be initiated by the Executive Engineers of Irrigation Department (entrusted with ownership and responsibility of 44 rivers).

(Action: Irrigation Department)

(10)The Chief Environmental Engineer, KSPCB informed that Department wise proposal for Karamana River Rejuvenation has been submitted to the Ministry of Jalsakthi, Government of India for financial assistance under NRCP. MoJS accepted the proposal of KWA and asked to submit a detailed project report(DPR). It was also asked to instruct Departments concerned to prepare proposals for pollution abatement of rivers in the State and submit to NRCP for financial assistance. CE, Irrigation replied that DPR for the Rejuvenation of Periyar was prepared by following the NRCP Guidelines.

(Action: Irrigation Dept, KSPCB, Water Resources Department)
The meeting ended at 11.45 A.M

Sd/-ADDITIONAL CHIEF SECRETARY

OA 673 ൽ 13.04.2022 തിയയിയിൽ സൂപ്രണ്ടിംഗ് എഞ്ജിനീയർ, ഇറിഗേഷൻ വകുപ്പ്-നോർത്ത് സർക്കിളിന്റെ അധ്യക്ഷതയിൽ വീഡിയോ കോൺഫ്റൻസ് വഴി നടത്തിയ DLTC <u>കീറ്റിങ്ങിന്റെ മിനുട്സ്.</u>

## സാങ്കാതവഴ്

- ശ്രീമതി.അഞ്ജന, (പേഴ്സണൽ അസിസ്റ്റന്റ് ഓഫ് സൂപ്രണ്ടിംഗ് എഞ്ചിനീയർ, ഇറിഗേഷൻ വകുപ്പ്).
- ശ്രീമതി.ചഞ്ചൽ (അസിസ്റ്റന്റ് എഞ്ചിനീയർ, മേജർ ഇറിഗേഷൻ ഡിവിഷൻ, തിരുർ).
- ശ്രീ.ജീവരാജ് (ഹെൽത്ത് സൂപ്പർവൈസർ, തിരൂർ മുനിസിപ്പാലിറ്റി).
- ശ്രീ.ഹരിന്ദ്രനാഥ് വി.ടി (അസിസ്റ്റന്റ് എക്സിക്യൂട്ടീവ് ഏഞ്ചിനീയർ (ഇറിഗേഷൻ) സബ്**ഡിവി**ഷൻ, തീരൂർ).
- 5. ശ്രീ.ജോഷിലാൽ, അസിസ്റ്റന്റ് എഞ്ചിനീയർ (ഗ്രൗണ്ട് വാട്ടർ വകുപ്പ്, മലപ്പുറം).
- ശ്രീഷംസുദ്ദീൻ, അസിസ്റ്റന്റ് എഞ്ചിനീയർ (മലപ്പുറം മുനിസിപ്പാലിറ്റി).
- ശ്രീ.സൂലൈമാൻ, അസിസ്റ്റന്റ് സെക്രട്ടറി (മംഗലം ഗ്രാമപഞ്ചായത്ത്)
- ശ്രീ. വിനോദ്, അസിസ്റ്റന്റ് സെക്രട്ടറി (ചെറിയമുണ്ടം ഗ്രാമപഞ്ചായത്ത്)
- ശ്രീമതി സൗമ ഹമീദ് (എൻവയോൺമെന്റൽ എഞ്ചിനീയർ, കേർള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്, ജില്ലാ ഓഫീസ്, മലപ്പുറം).
- ബീവി.വി.സി. അസിസ്റ്റന്റ് സയന്റിസ്റ്റ്, (കേരള സംസ്ഥാന 10. ശ്രീമതി. സൗദ മലിനീകരണ നിയന്ത്രനെ ബോർഡ്, ജില്ലാ ഓഫീസ്, മലപ്പുറം.)

DLTC ചെയർമാൻ (എസ്ഇഇ ഇറിഗേഷൻ)-ന്റെ അഭാവത്തിൽ അദ്ദേഹത്തിന്റെ പേഴ്സണൽ അസിസ്റ്റന്റ് ശ്രീമതി.അഞ്ജനയുടെ അധൃക്ഷതയിൽ 3.00 മണിക്ക് വീഡിയോ കോൺഫറൻസ് ആരംഭിച്ചു. ആക്ഷൻ പ്ലാനിലെ ഇറിഗേഷൻ വകുപ്പിന്റെ പ്രവർത്തന പുരോഗതി വിലയിരുത്താൻ എൻവയോൺമെന്റൽ എഞ്ചിനീയർ ശ്രീക്തി.അഞ്ജനയോട് ആവശ്യപ്പെട്ടു. കൂട്ടായി റെഗുലേറ്ററിന്റെ വർക്കിൽ പിന്നീട് പുരോഗതി ഉണ്ടായിട്ടില്ലെന്നും ചെയ്യാനുളള നടപടിയിലേക്ക് പോകേണ്ടിവരുമെന്നും ശ്രീമതി. അഞ്ജന അറിയിച്ചു. NGT അംഗീകരിച്ചിട്ടിുള്ള ആക്ഷൻ പ്ലാൻ നിർബന്ധമായും സമയബന്ധിതമായി. തീർക്കേണ്ടതാണെന്നും പകുത്രം വഴിക്ക് സാധിക്കുകയില്ല, അതുകൊണ്ട് റീ കോൺട്രാക്ടിന് പോകുന്നതല്ലേ നല്ലതെന്നും, വീഴ്ച്ച വരുത്തിയാൽ NGTയുടെ വിമർശനം നേരിടേണ്ടി വരുമെന്നും തുടർ നടപടികളിലേക്ക് നീങ്ങുമെന്നും എൻവയോൺമെന്റൽ എഞ്ചിനിയർ ഓർമ്മപ്പെടുത്തുകയുണ്ടായി. തിരൂർ പൊന്നാനി പുഴയുടെ വലതുഭാഗത്തുളള ബണ്ട് ശക്തിപ്പെടുത്തുന്നതിന് ഡി.പി.ആർ തയ്യൂററാക്കി സമർപ്പിച്ചിട്ടുണ്ടെന്നും, എന്നാൽ നാളിതുവരെ ഫണ്ട് ലഭ്യമാകാത്തതിനാൽ പൂരോഗതിയൊന്നും ഉണ്ടായിട്ടില്ലെന്ന് ശ്രീ.ഹരീന്ദ്രനാഥ് അറിയിച്ചു.

തുടർന്ന് മുനിസിപ്പാലിറ്റിയുടെ പ്രവർത്തനങ്ങളാണ് വിലയിരുത്തിയത്. മുനിസിപ്പൽ ബസ് സ്റ്റാന്റ് STP-യുടെ truss വർക്ക് കഴിഞ്ഞ ദിവസം പൂർത്തീകരിച്ചതായും വൈദ്യൂതീകരണത്തിന്റെ പണി ഇനി ചെയ്യാനുണ്ടെന്നും ഹെൽത്ത് സൂപ്പർവൈസർ ശ്രീ,ജീവകാജ് അറിയിച്ചു. ഒരു മാസാകുടി സമയാ തരണമെന്ന് ശ്രീ.ജീവരാജ് ഓർമ്മപ്പെടുത്തുകയുണ്ടായി തിരുർ മത്സ്യമാർക്കറ്റിലെ ETP-യുടെ blower മാറ്റാനുണ്ടെന്നും, ഇലക്ട്രിക്കൽ അസിസ്റ്റന്റ് എഞ്ചിനീയറാണ് എസ്റ്റിമേറ്റ് എടുത്തിമുന്നതെന്നും ഇനി അത് മെക്കാനിക്കൽ അസിസ്റ്റന്റ് എഞ്ചിനിയറെ ഏൽപ്പിക്കണമെന്നും ശ്രീ.ജീവമാജ് അറിയിച്ചു. കഴിഞ്ഞ തവണ ETP-യുടെ renovation work പുർത്തീകരിച്ചതായി അറിയിച്ചിരുന്നു. അതുപ്രകാരം 30.03.2022-ന് മലിനീകരണ നിയന്ത്രണ ബോർഡ് ഓഫ്റീസിൽ നിന്നും ഒരു ഇൻസ്പെക്ഷൻ നടത്തിയിരുന്നു. മഴവെള്ളം നിറഞ്ഞു കിടക്കുന്ന ടാങ്കിൽ കാക്കവരെ ചർതു കിടക്കുന്നതായാണ് അപ്പോൾ അവിടെ കാണാൻ കഴിഞ്ഞത്. ETP നിലവിൽ പ്രവർത്തന മഹിതമാണ്. ആയതിനാൽ അവിടുന്ന് സാമ്പിൾ എടുക്കാൻ സാധിച്ചിട്ടില്ലെന്നും **ഇപ്പോ**ലും untreated water drain own പുഴയിലേക്ക് എത്തിച്ചേരുന്നു നിർഭാഗ്യകരമാണെന്നും എൻവയോൺമെന്റൽ എഞ്ചിനീയർ അറിയിച്ചു. പ്രയോജനവുമില്ലാതെ എല്ലാ മാസവും DLTC മീറ്റിങ്ങ് കൂടിയിട്ട് ഒരു കാമുവുമില്ലെന്ന് ഒരു നിലവിലെ പുരോഗതി എഴുതി റിപ്പോർട്ട് NGT-യ്ക്ക് സമർപ്പിക്കുമെന്നും Environmental Clearance അടക്കമുളള നടപടികളിലേക്ക് ശക്തമായി നീങ്ങുമെന്നും എൻവയോൺമെന്റൽ എഞ്ജിനീയർ കാർമ്മപ്പെടുത്തുകയുണ്ടായി ഈ അവലോകനത്തിന്റെ അടിസ്ഥാനത്തിൽ തിമൂർ മുനിസിപ്പാലിറ്റിയ്ക്ക് ഒരു നിർദ്ദേശ കത്ത് നൽകണമെന്ന് എൻവയോൺമെന്റൽ എഞ്ചിനീയർ DLTC ചെയർ പേഴ്സനോട് അകൃർത്ഥിച്ചു.

തിരൂർ മുനിസിപ്പാലിറ്റി ബസ് സ്റ്റാന്റ് STP, മതസ്യമാർക്കറ്റിലെ ETP ഇവയുടെ നിലവിലുളള പുരോഗതി ഒരു റിപ്പോർട്ടായി മലിനീകരണ നിയന്ത്രണ ബോർഡ് ഓഫീസിൽ സമർപ്പിക്കണമെന്ന് തിരൂർ മുനിസിപ്പാലിറ്റിക്കു വേണ്ടി ഹാജരായവരോട് എൻവയോൺമെന്റൽ എഞ്ജിനീയർ ആവശ്യപ്പെട്ടു.

തുടർന്ന് മംഗലം ഗ്രാമപഞ്ചായത്തിന്റെ പ്രവർത്തനങ്ങളാണ് വിലയിമുത്തിയത്. തിമൂർ പൊ**ന്ന**ാന്റി പുഴയുടെ സംമ<del>മ്</del>ഷണം സംബന്ധിച്ചുളള വർക്ക് പൂർത്തീകരിച്ചതായി മംഗലം ഗ്രാമപഞ്ചായത്ത് അസിസ്റ്റന്റ് സെക്രട്ടറി ശ്രീ. സൂലൈമാൻ 70 ശതമാനം അറിയിച്ചു. നിർമ്മിതി കേന്ദ്രവുമായുള്ള ഒരു ഇടവഴിയുടെ പ്രശ്നമാണ് പൂർത്തികരിക്കുവാനുള്ള വർക്ക് തടസ്സുമെന്ന് അദ്ദേഹം അറിയിക്കുകയുണ്ടായി. മാസത്തിനകം വർക്ക് പൂർത്തീകമിക്കാമെന്നും അറിയിച്ചു. നിർമ്മിതി കേന്ദ്രവുമായി ഒരു ധാരണയിലെത്തി എത്രയും പെട്ടെന്ന് വർക്ക് പൂർത്തീകരിക്കണമെന്ന് എൻവയോൺമെന്റൽ എഞ്ചിനിയർ ആവശ്യപ്പെട്ടു.

അവസാനമായി മലപ്പുറം മുനിസിപ്പാലിറ്റി STP യുടെ പ്രവർത്തന പുമോഗതിയാണ് വിലയിരുത്തിയത്. STP യുടെ പ്രവർത്തനത്തിൽ യാകതാരു പുരോഗതിയും ഉണ്ടായിട്ടില്ലെന്ന് മലപ്പുറം മുനിസിപ്പാലിറ്റി അസിസ്റ്റന്റ് എഞ്ചിനീയർ ശ്രീ.ഷംസൂദ്ദീൻ അറിയിചു. Slaughter House-ന്റെ DPR തയ്യാറാക്കിയിട്ടുണ്ടെന്നും ഫണ്ട് ലഭ്യമാകാത്തതിനാൽ യാതൊരു പുരോഗതിയും ഉണ്ടായിട്ടില്ലെന്നും അറിയിച്ചു. Revamp ചെയ്യുന്നതിനുള്ള project proposal ബോർഡിന് സമർപ്പിക്കണമെന്നും, ബാക്കിയുള്ള പണി പൂർത്തീകരിച്ചാൽ മാത്രമേ മോണിറ്ററിങ്ങ് ചെയ്യാൻ പറ്റു എന്നും എൻവയോൺമെന്റൽ എഞ്ചിനീയർ ഓർമ്മപ്പെടുത്തി.

ാവന്യൂ ഡിവിഷണൽ ഓഫീസിൽ നിന്നും ആരും മീറ്റിങ്ങിൽ പങ്കെടുത്തില്ല. മീറ്റിങ്ങിൽ പങ്കെടുത്തില്ല. മീറ്റിങ്ങിൽ പങ്കെടുക്കാത്തവർക്ക് പ്രോഗ്രസ്സ് കൃത്യമായി അറിയിക്കുന്നതിനും കൃത്യമായി മീറ്റിങ്ങിൽ പങ്കെടുക്കുന്നതിനായും ചെയർ പേഴ്സൺ നിർദ്ദേശ കത്ത് നൽകണമെന്ന് എൻവയോൺമെന്റൽ എഞ്ചിനീയർ ഇറിഗേഷൻ വകുപ്പിലെ പേഴ്സണൽ അസിസ്റ്റന്റ് ഓഫ് സുപ്രണ്ടിംഗ് എഞ്ചിനീയർ, ശ്രീമതി.അഞ്ജനയോട് നിർദ്ദേശിച്ചു.

നമ്മുടെ ആക്ഷൻ പ്ലാനിൽ മലിനീകരണ നിയന്ത്രണ ബോർഡ് തുടർച്ചയായ മൂന്ന് വർഷമായി 21 സാമ്പിൾ സ്റ്റേഷനുകളിൽ നിന്നും സാമ്പിൾ എടുത്ത് ടെസ്റ്റ് പെയ്ത് വരുന്നുണ്ട്. അതിന്റെ റിസൾട്ടിൽ 600 മൂല്യം വളരെ കുറവാണ്. അതിൻ പ്രകാരം polluted stretches ആക്ഷൻ പ്ലാനിൽ നിന്ന് delisting ചെയ്യുന്നതിനായി എഴുതി ചോദിച്ചിരുന്നു. 6 മാസം heavy metals sampling കൂടി .്ചെയ്തതിനു ശേഷം തീരുമാനിച്ചാൽ മതിയെന്നാണ് അറിയിച്ചത്. കഴിഞ്ഞ നവംമ്പറിൽ heavy metals അനാലിസിസ് ചെയ്തത് 11എണ്ണത്തിന്റെ റിസൾട്ടാണ് കിട്ടിയിട്ടുള്ളത്. അതിൽ heavy metals content ഇല്ലെന്നും നല്ല റിസൾട്ടാണ് കിട്ടിയതെന്നും എൻവയോൺമെന്റൽ എഞ്ചിനിയർ അറിയിച്ചു.അതുകൊണ്ട് തന്നെ ആക്ഷൻ പ്ലാനിലെ ബാക്കിയുള്ള കാരുങ്ങൾ കൂടി പൂർത്തീകരിക്കുകയാണെങ്കിൽ ആക്ഷൻ പ്ലാൻ ഒയ്യാവും വേഗം അവസാനിപ്പിക്കാൻ കഴിയുമെന്നും ഓരോരുത്തർ ടെയ്റേന്റെ വേശം അവസാനിപ്പിക്കാൻ കഴിയുമെന്നും ഓരോരുത്തർട്ടായും ഭാഗത്തു നിന്ന് ചെയ്യേണ്ടുന്ന നടപടികൾ പൂർത്തീകരിക്കുന്നതിനനുസരിച്ച് നമുക്ക് മറ്റേന plan പൂർത്തീകരിച്ചരായി അറിയിക്കാം എന്നും, അതിനായി എല്ലാവരും ഉൽസാഹിക്കണമെന്നും എൻവയോൺമെന്റൽ എഞ്ചിനീയർ ഒാർമ്മപ്പെടുത്തുകയുണ്ടായി.

3.45 pm-ന് വീഡിയോ കോൺഫാൻസ് അവസാനിച്ചു.

മലപ്പുറം

4 44

13.04.2022

എൻവയോൺമെന്റൽ എഞ്ചിനീയർ

OA 673 <u>ൽ 17 05.2022 തിയ്യതിയിൽ സുപ്രണ്ടിംഗ് എഞ്ജിനിയർ, ഇ</u>റിഗേഷൻ വകുപ്പ്— നോർത്ത് സർക്കിളിന്റെ അധൃക്ഷതയിൽ <u>വീഡിയോ കോൺഫറൻസ് വഴി നടത്തിയ DLTC</u> മീറ്റിങ്ങിന്റെ മിനുട്സ്.

## സാങ്കാതവു

- ാ. സ്രീമതി.അഞ്ജനം (പേഴ്സണൽ അസിസ്റ്റന്റ് ഓഫ് സൂപ്രങ്ങിന് എഞ്ചിനീയർ, ഇറിഗേഷൻ വകുപ്പ്).
  - ശ്രീമതി.ചഞ്ചൽ (അസിസ്റ്റന്റ് എഞ്ചിനീയർ, മേജർ ഇറിനേഷൻ ഡിവിഷൻ, തിരൂർ).
  - ്രീ ജീവരാജ് (ഹെൽത്ത് സൂപ്പർവൈസർ, തിരൂർ മൂനിസിപ്പാലിറ്റി).
  - ഗ്രീ.ഹരിന്ദ്രനാഥ്.വി.ടി (അസിസ്റ്റന്റ് എക്സിക്യൂട്ടീവ് എഞ്ചിനീയർ (ഇറിഗേഷൻ സബ്ഡിഡിഷൻ, തിരൂർ)
  - 5 (ശീ.ജോഷിലാൽ, അസിസ്റ്റന്റ് എഞ്ചിനീയർ (ഗ്രൗണ്ട് വാട്ടർ വകുപ്പ്, മലപ്പുറം).
  - ശ്രീ.ഹമീദ്, ഹെൽത്ത് ഇൻസ്പെക്ടർ (മലപ്പുറം മൂനിസിപ്പാലിറ്റി).
  - ശ്രീ.സുമെലമാൻ, അസിസ്റ്റുന്റ് സെക്രട്ടറി (മംഗലം ഗ്രാമപഞ്ചായത്ത്)
  - ശ്രീ. വിനോദ്, അസിസ്റ്റന്റ് സെക്രട്ടറി (ചെറിയമുണ്ടം ഗ്രാമപഞ്ചായത്ത്)
  - ശ്രീ.അജയ്കൂമാർ, ഹെവ് ക്ലാർക്ക് (വെന്യൂ ഡീവിഷ്ണൽ ഓഫീസ്, തിരൂർ)
  - 10. ഗ്രീമതി സൗമ ഹമീദ് (എൻവയോൺമെന്റൽ എഞ്ജിനീയർ. കേരള സംസ്ഥാന മലിന്നികരണ നിയന്ത്രണ ബോർഡ്, ജില്ലാ ഓഫീസ്, മലപ്പുറം).
  - സൗദ ബീഡി.വി.സി. അസിസ്റ്റ്യന്റ് സയന്റീസ്റ്റ്, (കേരള സംസ്ഥാന മലിന്നീകരണ നിയന്ത്രണ ബോൻഡ്, ജില്ലാ ഓഫീസ്, മലപ്പൂറം.)

DLTC പെയർമാൻ (എസ്ഇള് ഇറിഗേഷൻ)-ന്റെ അഭാവത്തിൽ അദ്ദേഹത്തിന്റെ പേഴ്സണൽ അന്നിസ്റ്റന്റ് ശ്രീമതി.അഞ്ജനയുടെ അധ്യക്ഷതയിൽ 3.00 മണിക്ക് വീഡിയോ ഇറിഗേഷൻ വകുപ്പിന്റെ പ്രവർത്തന കോണ്ട്പ്വറൻസ് ആരംഭിച്ചു. ആകുഴൻ പ്ലാനിലെ പുരോഗതിയാണ് ആദ്യമായി വിലയിരുത്തിയത്. കൂട്ടായി റെഗുലേറ്ററിന്റെ വർക്കിൽ ടെർമിനേറ്റ് ചെയ്യാനുള്ള നടപടിയിലേക്ക് ഉണ്ടായിട്ടില്ലെന്നും, കന്നൂര പോയിരുനൊലിലും ഈ വർഷം ഫണ്ട് കിട്ടാനുളള ബുദ്ധിമുട്ടുളളതുകൊണ്ട് അടുത്ത വർഷം ചെയ്യാനുളള റിവൈസ്ഡ് ഷെഡ്യൂൾ എറണാകുളം മെക്കാനിക്<mark>കൽ സൂപ്രണ്ടിൽ</mark> എഞ്ഞിനീയർ അയച്ചു തന്നിട്ടുണ്ടെന്നും ശ്രീ.ഹരിന്ദ്രനാഥ് അറിയിച്ചു. തിരൂർ പൊന്നാനി പുഴയുടെ വലതുഭാഗത്തുള്ള ബണ്ട് ശക്തിപ്പെടുത്തുന്നതിന് ഡീ.പി.ആർ തയ്യാറാക്കി ലഭൃമാകാര്തതിനാൽ പുരോഗതിയൊന്നും എന്നാൽ ഫണ്ട് സ<mark>മർപ്പിച്ചിട്ടുണ്ടെന്നും,</mark> ഉണ്ടായിട്ടില്ലെന്നും ശ്രീ.ഹരിന്ദ്രനാഥ് അറിയിച്ചു.

തിരൂർ മുനിസിപ്പൽ ബസ് സ്റ്റാന്റ് STP-യുടെ truss വർക്ക് പൂർത്തീകരിച്ചിട്ടുണ്ടെന്നും രവെദ്യൂതീകരണം നടന്നുകൊണ്ടിരിക്കുകയാണെന്നും തിരുർ മുനിസിപ്പാലിറ്റി ഹെൽത്ത് ംരാത Slaughter House-ന്റെ ഉപകരണങ്ങൾ

എത്തിയിട്ടുടെതുന്നും. ആയത് സ്ഥാപിക്കുന്നതിനുളള നടപടികൾ നടന്നു കൊണ്ടിരിക്കുകയാണെന്നും ശ്രീ.ജീവരാജ് അറിയിച്ചു

തിരൂർ മതസൃമാർക്കറ്റിലെ ETP-യുടെ renovation work, blower മാറ്റുന്നുതിനുമായി ൂകദേഗാ - ലക്ഷശേതാളാ രൂപ വരുമെന്നും അതിനായുളള പ്രോജക്ട് തയ്യാറാക്കി െച്ചിട്ടുണ്ട്. അടുത്ത മാസമാണ് അപ്രൂവത് ആവ്യകയുള്ളു. അതിനു ശേഷം മാത്രമേ വീ െന്റർ വിളിക്കുകയുള്ളൂ എന്നും ശ്രീ.ജീവരാജ് അറിയിച്ചു.

അടുത്തതായി Encroachment നാർവ്വേയുടെ പുരോഗതിയാണ് വിലയിരുത്തിയത്. ഇപ്പോൾ സർവ്വേയർമാഭാണ് സർദ്വേ പൂരോഗമിക്കുന്നുണ്ടെന്നും 6 നടത്തിക്കൊണ്ടിരിക്കുന്നതെന്നും വെന്യു ഡിവിഷണൽ ഓഫിസിലെ ഹെഡ് ക്ലാർക്ക് പഞ്ചാന്മത്ത് അറിയിച്ചു. പുറത്തുർ ശതമാനം കൂടി സർവ്വേ പുർത്തീകരിക്കാനുണ്ടെന്നും ്രദി അടത്തിക്യമാർ പൂർത്തികരിക്കാനുള്ളും 8.95 ഗ്രീ.അജയ് കൂമാർ അറിയിച്ചു.

മലപ്പുാം മൂന്നിപ്പാലിറ്റിയുടെ പ്രവർത്തന പുരോഗതിയാണ് അവസാനമായി STP വിഷയത്തിൽ യാതൊരു പുരോഗതിയും ഉണ്ടായിട്ടില്ലെന്നും വിലയിരുത്തിയത്. Slaughter House-ഇൻസ്പെക്ടർ ശ്രീ.പാമീദ് അറിയിച്ചു. ഫെൻത്ത് പുരോഗതിയും ലഭ്യമാകാരതതിനാൽഒരു ഫണ്ട് ഇതുവരെ സ്ഥാപിക്കൂന്നതിനായുളള നവകേരളം അറിയിക്കുകയുണ്ടായി. തെളിനീര് शक्रीक्री० പദ്ധതിയുടെ ഭാഗമായി ഇപ്പോൾ തോടൂകളും ഡ്രൈനേജ്യകളുടേയും ക്ലീനിങ്ങ് ആണ് നടന്നു കൊണ്ടിതിക്കുന്നതെന്നും ശ്രീഹമീദ് അറിയിച്ചു.

3,30 pm-ന് വിവ്യിയോ കോൺഫറൻസ് അവസാനിച്ചു.

എൻവയോൺമെന്റൽ എഞ്ജിനീയർ

മലപ്പുറാ 17:05 2022

# Minutes of District Level Technical Committee Meeting on 26-04-2022 Through Video Conferencing

District Level Technical Committee (DLTC) Meeting on Polluted River Stretch (As per order of Hon'ble NGT in 0A673 of 2018) was held on 26th April 2022 through video conferencing at 11:00 am. Representatives from the Pollution Control board, Irrigation Department, Pattambi Municipality, and Pudur Panchayath have participated in the meeting.

#### Members Participated:

- 1. Mr Baji Chandran, Superintending Engineer, Minor Irrigation Central Circle, Irrigation Department, Ernakulam (Chairman of DLTC)
- 2. Mr Suresh Babu, Executive Engineer, Minor Irrigation, Palakkad
- 3. Ms Anees, Secretary, Pudur Gramapanchayath, Pudur
- 4. Mr Nasir, Secretary, Pattambi Municipality, Palakkad
- 5. Mr Muhammad Iqbal, Health Inspector, Pattambi Municipality, Palakkad
- 6. Mr. Krishnan M N, Environmental Engineer, Kerala State Pollution Control Board (Convener of DLTC)

Mr. Krishnan M N, Environmental Engineer, Kerala State Pollution Control Board welcomed the DLTC members and shared the information regarding the OA 673 and the reason for constituting the District Level Technical Committee as introduction. Then he discussed the progress of the polluted river stretches action plans of Bharathapuzha at Pattambi and Bhayani at Elachiyazhi.

#### Bharathapuzha at Pattambi

Environmental Engineer discussed the action points of Bharathapuzha at Pattambi one by one and the concerned implementing agency reported progress.

- Establishment, and modernization of the MSW treatment Plant (Solid Waste Management), Material collection Facility, and Resource recovery facility fully implemented in the Pattambi Municipality.
- Pattambi Municipality informed that the implementation of household and community-level solid waste management unit are in progress. A total of 1600 household units were sanctioned and it is being distributed based on applications.

- The action point on door-to-door collection and transportation of municipal solid waste was implemented in the Municipality. Environmental Engineer asked Secretary, Pattambi Municipality to ensure that the project was going well.
- Superintending Engineer, Irrigation Department informed that the DPR for regulating flood plain zone protection and management, and E-flow maintainance in the Bharathapuzha at pattambi were prepared and submitted to the government several months ago. But funding did not get sanctioned. He also mentioned that this matter should be bought to the attention of the Chief Secretary and Hon'ble National Green Tribunal. He commented that the State Government should taken necessary action for the approval of DPR and fund before asking for progress from the DLTC.
- The action points on management of plastics, hazardous, biomedical, and electrical and electronic wastes were achieved in Pattambi Municipality by the implementation of MCF and RRF facilities.
- The action points on creating awareness among the public, water quality monitoring, and the Green Protocol implementation were implemented by KSPCB. Environmental Engineer informed that the water quality of the Bharathapuzha at Pattambi is consistently achieving bathing standards, still the action plan was to be completely implemented.
- In the case of the implementation of the Primary Sewage Treatment Plant and Septage Treatment plant, Pattambi Municipal Secretary informed that Kerala Water Authority prepared a DPR for STP and submitted it to the Government. The STP is proposed to be installed at Nambram in Pattambi municipality in about 50 cent of land. The survey for the sewerage pipeline was also completed and it is also included in the DPR.
- The Pattambi Municipal Secretary informed that the funds have been allocated for the installation of a modern slaughterhouse and assorted rendering plant but land could not be identified for the same.
- DPR for the renovation of two sanitary complexes (located in the bus stand and near Nila Hospital) and one new at Pattambi market was prepared and its tendering were also completed. Pattambi Municipal Secretary said that its implementation will be started soon.
- Environmental Engineer, KSPCB suggested to Pattambi Municipality to prepare an
  explanatory note on the progress of the action plan in detail and send it at the
  earliest.

#### Bhavani at Elachivazhi.

- In Pudur Panchayath, building construction for the MSW treatment plant(MCF and RRF) was completed, machineries for RRF were purchased and waiting for KSEB connection for its installation. Wet waste processing was not started, Pudur Panchayath Secretary informed.
- Harithakarmmasena collected plastic wastes from Pudur Panchayath including tribal colonies and sent them to the MSW treatment plant for proper processing.
- Pudur Panchayath Secretary said that she was joined only recently so the progress of
  the other actions points, where Pudur Panchayath is acting as an implementing agency
  ,will be sent in a written format after enquiries with the concerned personell.
- Superintending Engineer irrigation department informed that the E-flow of the Bhavani Riverhad been earlier studied by IDRB and the report will be made available for the action plan implementation.
- Water quality monitoring of Bhavani at Elachivazhi and its upstream and downstream were monitored by KSPCB and it will be continuing for the complete achievement of the action plan.
- The action points on construction of protection wall and seasonal clearance of jungle and muddies of river courses are progressing and its current status will be submitted in written format Executive Engineer Minor Irrigation informed.

The meeting concluded at 12.00 pm

#### Bhavani at Flachivazhi.

- In Poder Panchayach, building construction for the MSW treatment plantMCF and RRF) was completed, introduceraes for RRF were purchased and marriag for KSFB connection for its installation. Were weak processing was not started: Poder Panchayath Secretary interests.
- Har thakemoussens collected afastic vastes from Pudur Panehayath including tribal colonies and sent them to the MSW againsent plant for proper processing.
- Poster Panchayath Secreting said that the was carried only operately so the progress of the other actions points, where Padar Panchayath is acting as an implementing agency will be scor in a written formal after enquiries with the concentred personell.
- Supermunding Employer implicit department informed that the 1-lief of the Diffusion Riverball Secretagiber station by HoRD and his report will be made available for the action plan to phynometry.
- Wester geality morthorage of Bhacian of a larmy state of a constraint and downwestern were incontored by K5PCB and a will be containing for the complete action enterior the action plan.
- The serious points on construction of protection wall and seasonal elegrance of consteand condities of niver concises are progressing and its current status will be submitted in written format is securise. Engineer Monor Impation (40) med.

The meeting concluded in 12 60 cm

Convener

Chareman

### 06.05.2022 ൽ Polluted River Stretches മായി ബന്ധപ്പെട്ട് പത്തനംതിട്ട അഡീഷണൽ ജില്ലാ മജിസ്ട്രേറ്റിന്റെ ചേമ്പറിൽ വെച്ച് നടത്തിയ DLTC മീറ്റിംഗിന്റെ മിനിട്ട്സ്.

അഡീഷണൽ ജില്ലാ മജിസ്ട്രേറ്റ്, ശ്രീ. അലക്സ് പി. തോമസ് അവർകളുടെ അദ്ധ്യക്ഷത യിൽ മെയ് മാസത്തെ അവലോകനയോഗം 11.00 am ന് ആരംഭിച്ചു. യോഗത്തിൽ താഴെപ്പറ യൂന്നവർ പങ്കെടുത്തു.

1) 160%	അലക്സ്	all	തോമസ്
a l'Ena	Anti-incidence parties and the second	, NAME (NO.	Secular Assessment Life.

- അഡീഷണൽ ജില്ലാ മജിസ്ട്രേറ്റ്

2) ശ്രീമതി. സുമ എസ്.

 അസി.എക്സിക്യൂട്ടീവ് എഞ്ചിനീയർ, മൈനർ ഇറിഗേഷൻ, പത്തനംതിട്ട

3) ശ്രീമതി. സൂചിത്ര വി

പരിസ്ഥിതി എഞ്ചിനീയർ,
 മലിനീകരണ നിയന്ത്രണ ബ്രോർഡ്,പത്തനംതിട്ട

4) ശ്രീമതി. പ്രവിതാമോൾ റ്റി.എൻ

അസി. പരിസ്ഥിതി എഞ്ചിനീയർ,
 മലിനീകരണ നിയന്ത്രണ ബോർഡ്,പത്തനംതിട്ട

5) ശ്രീ. സുരേഷ് കുമാർ എസ്.കെ.

ഡെപ്യൂട്ടി രജിസ്ട്രാർ,
 ജില്ലാ വ്യാവസായിക കേന്ദ്രം

6) ശ്രീ. എസ്. വിജയ്

- സെക്രട്ടറി, നിരണം ഗ്രാമപഞ്ചായത്ത്

7) ശ്രീ.ഹരികുമാർ എൻ.

-അസി.സെക്രട്ടറി, മാന്നാർ ഗ്രാമപഞ്ചായത്ത്

8) ശ്രീ. മുജീബ് റഹ്മാൻ

- സെക്രട്ടറി, കടപ്ര ഗ്രാമപഞ്ചായത്ത്

ദ) ശ്രീ. ജെറിൻ ജയിംസ്

- ടെക്നിക്കൽ കൺസൾട്ടന്റ്, ശൂചിതമിഷൻ

10) ശ്രീ. ജിനു ഏബ്രഹാം

– ജൂനിയർ സുപ്രണ്ട്, ഡി.ഡി.പി

11) ശ്രീ. അജയ് കെ. ആർ

- പ്രോഗ്രാം ഓഫീസർ, ശുചിത മിഷൻ

12) ശ്രീ. അരുൺദാസ് ബി

- ഹൈഡ്രോ ജിയോളജിസ്റ്റ്, ഭൂജലവകുപ്പ്

അഡീഷണൽ ജില്ലാ മജിസ്ട്രേറ്റ്, പത്തനംതിട്ട, എല്ലാവരേയും യോഗത്തിലേക്ക് സ്വാഗതം ചെയ്തു. തുടർന്ന് കർമ്മ പദ്ധതികളുടെ പുരോഗതി വിലയിരുത്തി.

പരിസ്ഥിതി എഞ്ജിനീയർ, മലിനീകരണ നിയന്ത്രണ ബോർഡ് കർമ്മ പദ്ധതി പ്രകാരം ബോർഡ് സ്വീകരിച്ചുവരുന്ന നടപടികളെപ്പറ്റി വിശദീകരിച്ചു. മലിനീകരിക്കപ്പെട്ട നദീഭാഗങ്ങളുടെ കർമ്മപദ്ധതിൽ ഉൾപ്പെടുന്ന സ്റ്റേഷനുകളിൽ നിന്നും എല്ലാ മാസവും സാമ്പിളുകൾ ശേഖരിച്ച് പരിശോധന നടത്തി വരുന്നു. ഈ സാമ്പിളുകളിൽ BOD 3 mg/l ൽ താഴെയാ നെന്നും ഫീക്കൽ കോളിഫോം ബാക്ടീരിയുടെ സാന്നിധും 500 ൽ താഴെയാണെന്നും അറിയിച്ചു.

നിരണം ഗ്രാമപഞ്ചയാത്തിൽ MCF നു ചുറ്റുമതിൽ കെട്ടാൻ ടെണ്ടർ നടപടി സ്വീകരിച്ചെങ്കിലും ആരും ഏറ്റെടുത്തിട്ടില്ലെന്നും, വെള്ളപൊക്ക ബാധിത പഞ്ചായത്ത് ആകയാൽ തരം തിരിച്ച് വച്ചിരുന്ന പ്ലാസ്റ്റിക് മാലിന്യങ്ങൾ ഒഴുകി നടക്കുന്ന സ്ഥിതി പഞ്ചായത്ത് പദ്ധതിയാണിതെന്നും ഉണ്ടായെന്നും പഞ്ചായത്ത് സെക്രട്ടറി അറിയിച്ചു. പദ്ധതിയിൽ മാറ്റം വരുത്തിയിട്ടും, ടെണ്ടർ ആരും ഏറ്റെടുത്തിട്ടില്ലെന്നും പഞ്ചായത്തിൽ ഏർപ്പെടുത്തിയിട്ടുണ്ടെന്നും, സെക്രട്ടറി ഓരോ വാർഡിലും മിനി MCF നടത്താൻ VEO തടയുന്നതിനായി പരിശോധന 900 ഉപയോഗം പ്പാസ്റ്റിക്കിന്റെ കമ്പനിക്ക് വേസ്റ്റ് കീൻ 日本の包 ചൂമതലപ്പെടുത്തിയിട്ടുണ്ടെന്നും, ലെഗസി കൈമാറുന്നതായും സെക്രട്ടറി അറിയിച്ചു.

മാന്നാർ പഞ്ചായത്തിൽ MCF താൽക്കാലികമായി ഓഡിറ്റോറിയത്തിൽ നടത്തുന്നുണ്ടെന്നും, MCF നു വേണ്ടി സ്ഥലം വാങ്ങിയിട്ടുണ്ടെന്നും, മിനി MCF എല്ലാ വാർഡിലും പ്രവർത്തിക്കുന്നുണ്ടെന്നും അസിസ്റ്റന്റ് സെക്രട്ടറി അറിയിച്ചു. 15 ടൺ പ്ലാസ്റ്റിക്ക് വേസ്റ്റ് ക്ലീൻ കേരള കമ്പനിക്കു നൽകിയിട്ടുണ്ടെന്നും, ലഗസി വേസ്റ്റ് എടുക്കാൻ മടിയാണെന്നും നിരോധിച്ച പ്ലാസ്റ്റിക്കുകൾ പിടിച്ചെടുത്ത് പരിശോധനയ്ക്കായി അയച്ചിട്ടുണ്ടെന്നും അറിയിച്ചു. തെളിനീരൊഴുകും നവകേരളം പദ്ധതി പ്രകാരം ഓരോ വാർഡിലേയും തോടുകളിൽ നിന്നും 4 സാമ്പിളുകൾ വീതം ശേഖരിച്ച് പരിശോധന നടത്തി വരുന്നതായും അസിസ്റ്റന്റ് സെക്രട്ടറി അറിയിച്ചു.

കടപ്ര ഗ്രാമ പഞ്ചായത്തിൽ door to door collection നന്നായി നടക്കുന്നുണ്ടെന്നും, വേസ്റ്റുകൾ ക്ലീൻ കേരള കമ്പനിക്ക് കൈമാറുന്നുണ്ടെന്നും, Mini MCF എല്ലാ വാർഡുകളിലുമുണ്ടെന്നും, നദികളിലേക്ക് ഓലിനും ഒഴുക്കി വിടാതിരിക്കാൻ തീരത്തിലുള്ള വീടുകളിലും കടകളിലും നോട്ടീസ് നൽകി നിയന്ത്രിച്ചതായും സെക്രട്ടറി അറിയിച്ചു. ഇതിന്റെ റിപ്പോർട്ട് വാർഡ് ക്ലാർക്കുമാർ മുഖേന പരിശോധിക്കുന്നതായും അറിയിച്ചു.

മൈനർ ഇറിഗേഷനിൽ പുനമുദ്ധാരണത്തിന്റെ വിശദമായ എസ്റ്റിമേറ്റ് റിപ്പോർട്ട് സമർപ്പിച്ചെങ്കിലും അനുമതി ലഭിച്ചില്ലെന്നും ഓരോ നദിക്കും ഓരോ അസി.എക്സിക്യുട്ടീവ് എഞ്ചിനീയർമാരെ ചുമതലപ്പെടുത്തിയിട്ടുണ്ടെന്നും, നദീ പുനമുജ്ജീവനം പദ്ധതി പ്രകാരം പമ്പു, അച്ചൻകോവിൽ, മണിമല എന്നീ നദികളിൽ നിക്ഷേപിക്കപ്പെട്ട് പാറയും, ചെളിയും, മണ്ണും തൊഴിലുറപ്പ് മുഖേനയും, യന്ത്ര സഹായത്തോടുകൂടിയും നീക്കം ചെയ്ത് പഞ്ചായത്ത് ഗ്രൗണ്ടിൽ നിക്ഷേപിക്കുന്നതായും, ഓരോ നദിയുടെയും ചുമതല അതാത് ജില്ലയിലെ എക്സിക്യൂട്ടീവ് എഞ്ചിനീയർക്കാണെന്നും, പമ്പാ നദിയുടേത് കൊല്ലം എക്സിക്യൂട്ടീവ് എഞ്ചിനീയറുടെ മേൽനോട്ടത്തിലാണെന്നും അസി. എക്സിക്യൂട്ടീവ് എഞ്ചിനീയർ അറിയിച്ചു.

കേന്ദ്ര ഗവൺമെന്റിന്റെയും അനുപാതത്തിൽ 70:30 السائدون മിഷനിൽ പഞ്ചായത്തിന്റെയും ഫണ്ട് ഉപയോഗിച്ച് ഖര ദ്രവ മാലിന്യങ്ങളുടെ നിർമ്മാർജ്ജനം `തെളിന്നീരൊഴുകും സംസ്ക്കരണവുമായി ബന്ധപ്പെട്ട് മാലിന്യ ചെയ്യുന്നുണ്ട്. REGUL തോടുകളിലെയും, വാർഡിലെയും, ഭാഗമായി 630000 പദ്ധതിന്തുടെ നവകേരളം ബാക്ടീരിയായുടെ സാന്നിദ്ധ്യം അറിയാൻ 4 കൈത്തോടുകളിലേയും, കോളിപോം നടത്തി കിറ്റുപയോഗിച്ച് പരിധോധന ശേഖരിച്ച് വീതര സാമ്പിളുകൾ

വരുന്നതായും ഇതിന്റെ ഭാഗമായി പരിശോധനാഫലം അറിയാൻ മൊബൈൽ ആപ്പ് (തെളിനീർ) വികസിപ്പിച്ചെടുത്തതായും ടെക്നിക്കൽ കൺസൾട്ടന്റ്, ശൂചിത്വ മിഷൻ അറിയിച്ചു.

ഭൂഗർഭ ജലവിവേ വകുപ്പിൽ കഴിഞ്ഞ സാമ്പത്തിക വർഷം 13 റീച്ചാർജ്ജ് പൂർത്തിയായെന്നും 5 എണ്ണം പുതുതായി എസ്റ്റിമേറ്റ് എടുത്തിട്ടുണ്ടെന്നും ഹൈഡ്രോ ജിയോളജിസ്റ്റ് അറിയിച്ചു.

എല്ലാ പഞ്ചായത്തുകളിലും മിനി MCF നിറഞ്ഞു കവിയുന്നതായും അതിന്റെ വശങ്ങളിൽ മാലിന്യങ്ങൾ കൊണ്ടിടുന്നതായും പരാതി കിട്ടിയിട്ടുണ്ടെന്നും പഞ്ചായത്ത് അത് മാറ്റാനുള്ള നടപടി എത്രയും പെട്ടെന്ന് കൈക്കൊള്ളണമെന്നും, കൂടാതെ നിരോധിത പ്ലാസ്റ്റിക്കുകൾ പിടിച്ചെടുത്ത് പിഴ ഈടാക്കാനുള്ള നടപടി സ്വീകരിക്കണമെന്നും അഡീഷണൽ ജില്ലാ മജിസ്ട്രേറ്റ് ആവശ്യപ്പെട്ടു.

യോഗത്തിൽ പങ്കെടുത്ത എല്ലാവർക്കും എ.ഡി.എം നന്ദി അറിയിച്ചു.

യോഗം 11.20 ന് അവസാനിച്ചു.

അഡിഷണൽ ജില്ലാ ക്ഷസ്ട്രേട്ട്

कारण अध्यक्त कारण (अध्यक्त कारण (५०) व्यक्त कारण अध्यक्त कारण (५०) अध्यक्त कारण (५०)

Shels



## KERALA STATE POLLUTION CONTROL BOARD

DISTRICT OFFICE, 19/269 A, PERINTHALMANNA ROAD, UP HILL .P.O. MALAPPURAM - 676 506 കേരള സംസ്ഥാന മലിനീകരണ നിയുന്തണ ബോർഡ്

ജില്ലാ ഓഫിസ്, 19/269A, പെരിന്തൽക്ണൂ റോഡ്, കുന്നുമ്മൽ, പി.ഒ, മലപ്പുറം - 676 505 ഫോൺ (Phone): 0483-2733211, ഫാക്സ് (Fax): 0483-2733211

PCB//MLPM/RIVER STRETCH/2019

Date: 18.06.2022

NGT MATTER VERY URGENT

From

Environmental Engineer

To

The Member Secretary, Kerala State Pollution Control Board, Head Office, Thiruvananthapuram,

Sub: - Submission of monthly progress report for the month of May 2022 as per OA 673/2018- updated, after the DLTC meeting on 17.06.2022.

Ref: - DLTC meeting video conference conducted on 17.06.2022 regarding rejuvenation of Tirur, Ponnani river as per OA 873/2018.

Respected Madam,

The updated monthly progress report for the month of May 2022, Minutes of DLTC meeting (video conference) conducted on 17.06.2022 vide reference and Analysis Report of the polluted stretch river samples during the month of May 2022 are enclosed herewith. This is for information and further necessary action.

Yours faithfully,

ENVIRONMENTAL ENGINEER

Enclosure: Minutes.

Copy to:

The Chief Environmental Engineer, Kerala State Pollution Control Board Regional Office, Kozhikode.

OA 673 ൽ 17.08.2022 തീയ്യതിയിൽ സൂപ്രണ്ടിംഗ് എഞ്ചിനീയർ, ഇറിഗേഷൻ വകുപ്പ്-നോർത്ത് സർക്കിളിന്റെ അധ്യക്ഷതയിൽ വീഡിയോ കോൺഫറൻസ് വഴി നടത്തിയ 250മത് DLTC മീറ്റിങ്ങിന്റെ മിനുട്സ്.

## ഹാജമാതവർ

- t. ശ്രീമതിക്കഞ്ജന, (പേഴ്സണൽ അസിസ്റ്റ്വന്റ് ഓഫ് സുപ്രണ്ടിംഗ് എഞ്ചിനീയർ.
- ശ്രീമതി,ചഞ്ചൽ (അസിസ്റ്റൻ്റ് എഞ്ചിനീയർ, മേജർ ഇറിഗേഷൻ ഡിവിഷൻ, തിരൂർ).
- ശ്രീ.ജീവരാജ് (ഹെൽത്ത് സൂപ്പർവൈസർ, തിരൂർ മുനിസിപ്പാലിറ്റി).
- 4 ശ്രീ.ഹരിന്ദ്രനാഥ്.വി.ടി (അസിസ്റ്റന്റ് എക്സിക്യൂട്ടീവ് എഞ്ചിനീയർ (ഇറിഗേഷൻ
- ഗരീ.ജോഷിലാൽ, അസിസ്റ്റന്റ് എഞ്ജിനീയർ (ഗ്രൗണ്ട് വാട്ടർ വകുപ്പ്, മലപ്പുറം).
- ശ്രീ.ഹമീദ്, ഹെൽത്ത് ഇൻസ്പെക്ടർ (മലപ്പുറം മുനിസിപ്പാലിറ്റി).
- 7. ശ്രീ.സുലൈമാൻ, അസിസ്റ്റന്റ് സെക്രട്ടറി (മംഗലം ഗ്രാമപഞ്ചായത്ത്)
- ശീ. വിനോദ്, അസിസ്റ്റന്റ് സെക്രട്ടറി (ചെറിയമുണ്ടം ഗ്രാമപഞ്ചായത്ത്)
- ശ്രീ അജയ്കുമാർ, ഹെഡ് ക്ലാർക്ക് (റവന്യൂ ഡിവിഷണൽ ഓഫീസ്, തിരൂർ)
- ന്റ. ശ്രീമതി സൗമ ഹതീദ് (എൻവയോൺമെന്റൽ എഞ്ജിനീയർ, കേർള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്, ജില്ലാ ഓഫീസ്, മലപ്പുറം).
- ബീവിവി.സി. അസിസ്റ്റന്റ് സയന്റിസ്റ്റ്, (കേരള രലിനീകരണ നിയന്ത്രണ ബോർഡ്, ജില്ലാ ഓഫീസ്, മലപ്പുറം.) സംസ്ഥാന

DLTC ചെയർമാൻ (എസ്ഇഇ ഇറിഗേഷൻ)-ന്റെ അഭാവത്തിൽ അദ്ദേഹത്തിന്റെ പേഴ്സണൽ അസിസ്റ്റന്റ് ശ്രീമതി.അഞ്ജനയുടെ അധൂക്ഷതയിൽ 3,00 മണിക്ക് വീഡിയോ കോൺഫറൻസ് ആരംഭിച്ചു. ആക്ഷൻ പ്ലാനിലെ ' ഇറിഗേഷൻ വകുപ്പിന്റെ പ്രവർത്തന പുരോഗതിയാണ് ആദ്യമായി വിലയിരുത്തിയത്. ക്യൂട്ടായി റെഗുലേറ്ററിന്റെയും വർക്കിൽ പുരോഗതി ഒന്നും ഉണ്ടായിട്ടില്ല. തിരൂർ പൊന്നാനി പുഴയുടെ വലതുഭാഗത്തുളള ബണ്ട് ശക്തിപ്പെടുത്തുന്നതിന് 28.6 ലക്ഷം രൂപയുടെ എസ്റ്റിമേറ്റ് തയ്യാറാക്കി സമർപ്പിച്ചിട്ടുണ്ടെന്നും എന്നാൽ നാളിതുവരെ അനുമതി കിട്ടിയിട്ടില്ലെന്ന് അസിസ്റ്റന്റ് എക്സിക്യൂട്ടീവ് എഞ്ജിനീയർ, ശ്രീ.ഹരിന്ദ്രനാഥ്.വിടി അറിയിച്ചു.

തിരുമ മുനിസിപ്പൽ ബസ് സ്റ്റാന്റ് STP-യുടെ ഫൈദ്യൂതീകരണം കൊണ്ടിരിക്കുകയാരണന്നും, തിരൂർ നടന്നു മുനിസിപ്പാലിറ്റി ശ്രീ.ജീവരാജ് ഫെൽത്ത് അറിയിച്ചു. സൂപ്പർവൈസർ കൂടാതെ Slaughter House-ang എത്തിയിട്ടുണ്ടെന്നും, ആയത് സ്ഥാപിച്ച് കൊണ്ടിരിക്കുകയാണെന്നും ഉപകരണങ്ങൾ അറിയിച്ചു. ശ്രീ.ജീവരാജ്

മത്സ്യമാർക്കറ്റിലെ ETP-യുടെ പ്രവർത്തനത്തിൽ പുരോഗതിയൊന്നും തന്നെ തീയ്യതിയിലെ അറിയിച്ചു. ശ്രീജീവരാജ് 28.04.2022 എന്ന് ഉണ്ടായിട്ടില്ല സ.ഉ(സാധാ)നം.1058/2022/LSGD നമ്പർ സർക്കാർ ഉത്തരവ് പ്രകാരം DBOT (Design Build Operate and Transfer) മാതൃകയിൽ Fish market STP renovation-ന് ടെൻഡർ വിളിച്ച് ഒറ്റ കരാറുകാരനെ മുഴുവൻ പണിയും ഏൽപ്പിക്കുകയും (5 വർഷത്തെ operation and maintannce ഉൾപ്പെടെ) ചെയ്ത് ഏറ്റവും വേഗം ഫിഷ് മാർക്കറ്റ് STP DLMC യോഗത്തിൽ ചർച്ച സജ്ജമാക്കണമെന്ന് മേൽകാര്യം 15.06.2022-ലെ ജില്ലാതല എഞ്ചിനീയർ എൻവയോൺമെന്റൽ തീരുമാനമായതാണെന്നും ചെയ്ത് **ഒൻമ്മപ്പെടുത്തുകയുണ്ടായി**.

അടുത്തതായി Encroachment സർവ്വേയുടെ പുരോഗതിയാണ് വിലയിരുത്തിയത്. പുഴയുമായി ബന്ധപ്പെട്ട Encroachment സർവ്വേ പൂർത്തീകരിച്ചിട്ടുണ്ടെന്നും സർവ്വേക്കല്ല് സ്ഥാപിച്ചുക്കൊണ്ടിരിക്കുകയാണെന്നും റവന്യൂ ഡിവിഷണൽ ഓഫീസിലെ ഹെഡ് ക്ലാർക്ക് ശ്രീ.അ**ജയ്കുമാ**ർ അറിയിച്ചു. അവസാനമായി വിലയിരുത്തിയത് മലപ്പുറം മൂനിസിപ്പാലിറ്റിയുടെ പ്രവർത്തുന പുരോഗതിയാണ്. പ്ലാൻ ഫണ്ടിൽ നിന്ന് 5 ലക്ഷം രൂപയും Hotel and Restaurant സംഘടനയിൽ നിന്നും ഫണ്ട് ശേഖരിച്ച് STP കൂടാതെ അധൂക്ഷതയിൽ യോഗത്തിൽ ചേർന്ന ചെയർമാന്റെ പ്രവർത്തനയോഗൂമാക്കാൻ തീരുമാനിച്ചിട്ടുണ്ടെന്ന് മലപ്പുറം ഹെൽത്ത് ഇൻസ്പെക്ടർ ശ്രീ.ഹമീദ് അറിയിച്ചു. STP പൊതുസ്ഥലങ്ങളിലേക്ക് വേസ്റ്റുകളൊന്നും തന്നെ പ്രവർത്തിക്കുന്നില്ലെങ്കിലും ഒഴുക്കുന്നില്ലെന്നും, കൂടാതെ ലികിഡ് വേസ്റ്റുകൾ അതാത് സ്ഥാപനങ്ങളുടെ സോക് പിറ്റുകളിലേക്കും സെപ്റ്റിക് ടാങ്കുകളിലേക്കും ഒഴുക്കുകയാണെന്നും ബയോ വേസ്റ്റുകൾ പന്നി ഫാമിലേക്ക് കൊടുക്കുകയാണെന്നും ശ്രീ.ഹമീദ് അറിയിച്ചു. ഹോട്ടൽ ഡെലീഷ്യയ്ക്കു മാത്രമാണ് സ്വന്തമായി STP ഉള്ളതെന്നും അറിയിക്കുകയുണ്ടായി.

3.30 pm-ന് വീഡിയോ കോൺഫറൻസ് അവസാനിച്ചു-

എൻവയോൺമെന്റൽ എഞ്ചിനീയർ

മലപ്പുറം 17.06,2022

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

## KERALA STATE POLLUTION CONTROL BOARD



DISTRICT OFFICE, THIRUVANANTHAPURAM

T. C. 12/96 (4.5), PLAMOODU IN., PATTOM P.O. THRUVANANTHAPURAM - 695 004

strot u/se (4,8), quais mentant, age alto, minimummarine - 688 nos

No: 202302

16/06/2022

#### ANALYSIS REPORT OF THE SAMPLE COLLECTED FROM THE OUTLET OF STP MUTTATHARA FOR THE PERIOD FROM APRIL TO JUNE 2022

MONTH/ YEAR	Date of sample collection	pH mg/l	BOD mg/l	COD mg/l	Total Suspended Solids mg/l	Oil & Grease mg/l	TC cfu/100 ml	FC efu/100 ml
April 2022	06/04/2022	7.5	10.2	32	7.2	BDL	5	- 43
May 2022	10/05/2022	7.5	7.2	32	20.3	BDL	2	-
June 2022	10/06/2022	7.0	12.6	40	22	BDL	100	0
Permissible Limit	TE	6,5-9.0	20	121	<50	BDL		·

Remarks: BDL- Below Detection Level

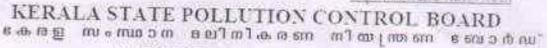
Verified by:

Muleumie (AS)

Scientist-in-Charge of Analysis

ASSISTANT ENVIRONMENTAL SCIENTIST

20172-250544 e mail: kgovbdotyp::if gmail.com hopelydottym Syalines (cm)





DISTRICT OFFICE THIRUVANANTHAPURANI യില്ലാ അമിസ്. തിരുതതതചുടം T. C. 12/96 (4.5), PLAMOODU EV., PATTOM P.O. THERUVANANTHAPURAM - 695 004

ടി.സി. നേടെ (ച. ട) പ്രദ്യേദ് അംഗ്വൻ, പും ഡി.ത. ത്രുവനന്തപട്ടുത - ട്രൈ വേം

#### ANALYSIS REPORT

No: 202295

Date: 30/05/2022

G	rivandrum.			
m A	EE	Date of sample collection	24/05/2022	
24/05	/2022	Ref. No.	PCB V12	
Sl. Parameter		Value	Permissible Limit	
pH		7.1	6,5-9	
BOD	mg/L	33	30	
FC		2000		
	Parameter pH BOD	AEE  24/05/2022  Parameter Unit  pH - BOD mg/L	Parameter Unit Value  pH - 7.1 BOD mg/L 33	

Verified by Malenne (#5)

Scientist-in-Charge of Analysis

ASSISTANT ENVIRONMENTAL SCIENTIST



## KERALA STATE POLLUTION CONTROL BOARD DISTRICT OFFICE (ERNAKULAM -II). PERUMBAYOOR

PMC 20/733 Govt. Hospital- KSRTC Road, Near Kallunkal Auditorium. Perumbayoor-683 542

Telephone 0484-2593747

E-mail pebdo2ekmu/gmail.com Website: www.keralapcb.nlc.in

Date: 31.03.2022

PCB/PBR/LAB/1/2013

## ANALYSIS REPORT

Source

CETP RUBBER PARK IRAPURAM

Sample Point : FILTER OUTLET

DO:S

-11.03.2022

D.O. Rd

: 16.03.2022

Collected by : NAMP-I

Sample ID PCB-176

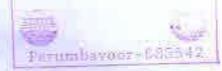
SI.No	Parameters	Unit	Value	Test Method	KSPCB Limit
į.	pH		7,91	APHA, 4500 H B 22 1d Edition 2012	6.0-8.0
2	вор	mg/l	40	APHA, 5210 B, 22 <sup>nd</sup> Edition 2012	30
3	COD	mg/l	112	APHA, 5220 B, 22 <sup>rd</sup> Edition 2012	200
4	OIL &GREASE	mg/l	BDL	APHA, 5520 B, 22 <sup>nd</sup> Edition 2012	>83
5	SS	mg/l	146	APHA, 2540-D, 22 <sup>st</sup> Edition 2012	80
6	ros	mg/l	2038.4	APHA 2840-C. 22 <sup>66</sup> Edition 2012	1600
Œ	Ammoniacal Nitrogen	mg/I	0.012	APHA 4500-NH3-F. 22 <sup>nd</sup> Edition 2012	50
8	Sulphides	mg/l	BDL	APHA,4500-8°E, 22°3 Edition 2012	1/

SARANYA DASA

ASSISTANT SCIENTIST

Fred State Polletion C Discontinue (Erman

3 1 MAR 2022





## KERALA STATE POLLUTION CONTROL BOARD DISTRICT OFFICE (ERNAKULAM -II), PERUMBAYOOR

PMC 20/733 Govt. Hospital- KSRTC Road, Near Kallunkal Auditorium, Perumbayoor-883 542

Telephone: 0484-2593747

E-mail: pchdo2ckm/a/gmail.com Website: www.keralapcb.nic.in

Date: 05.05.2022

PCB/PBR/LAB/1/2013

## ANALYSIS REPORT

Source

; SEPTAGE TREATMENT PLANT, BRAHMAPURAM

Sample Point: TREATED FINAL EFFLUENT TANK

D.O.S

: 26.04.2022

D.O. Rd

: 26.04.2022

Collected by : NAMP-II

Sample ID : PCB-3481

Sl.No.	Parameters	Unit	Value	Test Method	KSPCB Limit
1	pH		7.29	APHA, 4500 H <sup>+</sup> B 22 nd Edition 2012.	6-9
2	BOD	mg/l	40	APHA, 5210 B. 22 <sup>nd</sup> Edition 2012.	30
3	COD	mg/l	120	APHA, 5220 B, 22 <sup>nd</sup> Edition 2012	250
4	OIL &GREASE	mg/l	BDL	APHA, 5520 B, 22nd Edition 2012	10
5	SS	mg/l	BDL	APHA, 2540-D, 22 <sup>nd</sup> Edition 2012	100
6	PHOSPHATES	mg/I	0.18	APHA-4500 P-E 22 <sup>mt</sup> Edition 2012	5
7	NITRATES	mg/t	3.18	APHA 4500-NO3-E, 22 <sup>nd</sup> Edition 2012	10
8	SULPHATES	mg/l	58.0	APHA, 4500-SO4, 22nd Edition 2012	1000
9	SULPHIDES	mg/l	BDL	APHA-4500-S <sup>2</sup> D 22 <sup>nd</sup> Edition 2012	2
10	AMMONIACAL NITROGEN	mg/l	0.37	APHA, 4500-NH <sub>2</sub> -F, 22 <sup>nd</sup> Edition 2012	50
11	PHENOLIC COMPOUNDS	mg/l	BDL	APHA, 5530 C, 22 <sup>nd</sup> Edition 2012	1.
12	TOTAL COLIFORM	cfu/100ml	24000	APHA 9222B, 22 <sup>nd</sup> Edition 2012	4
13	FAECAL STREPTOCOCCI	cfu/100ml	28	APHA 9230 A, 22 <sup>nd</sup> Edition 2012	300

Dist. Office (Smithing-II)

0.5 MAY 2022

SARANYA DAS.K

ASSISTANT SCIENTIST



## KERALA STATE POLLUTION CONTROL BOARD CENTRAL LABORATORY



കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ് കേന്ദ്ര പരീക്ഷണശാല

Certificate No. TC 8525

## ANALYSIS REPORT

Analysis Report No.		Date	05.05.2022	Format No.PCB/CL/CII/F-
Ref. No.	PCB/EKM/DO-1/ dated 11.04.2022	Date of	Collection	08.04.2022
Received From	D O Ernakulam	Date of	Receipt	11.04.2022
No. of Sample	1	Period of Analysis		06.04.2022 - 05.05.2022
Source	CSEZ (Common ETP), Kakkanad	Scientist-in-charge		Dr. Josemin
Sample Condition	Fit for analysis	Sample Type		Waste Water samples
Sample collected by	EE DO Ernakulam	Sample volume & container type		2 L Plastic Can
Sample preservation	As per APHA/IS:3025 (Part-1)	1) Type of Test		Chemical

SAMPLE ID: TS

SI. No	Parameters	Unit	Value	Test Method	Detection Limit
1	pH		7.9	APHA, 4500-H+B,23rd Ed., 2017	3 to 12
2	Total Suspended Solids	mg/L	16.0	APHA, 2540-D, 23rd Ed., 2017	10 mg/L
3	Ammoniacal Nitrogen	mg/L	0.56	APHA-4500 NH3-C, 23 <sup>rd</sup> Ed., 2017	0.02 mg/L
4	BOD	mg/L	4.3	IS 3025 Part( 44): 1993	2 to 500 mg/L
5	COD	mg/L	72.0	APHA, 5220-B, 23 <sup>rd</sup> Ed., 2017	4 to 1000 mg/l
6	Oil & Grease	mg/L	BDL	APHA, 5520-B, 23 <sup>rd</sup> Ed., 2017	5 mg/l
7	Total Nitrogen	mg/L	37.80	APHA, 4500-N-Org B, 22ND Ed., 2012	0.2 mg/l

The analysis report relates only to the sample received in the Laboratory -- End of Report--

Checked By ANJU LAL

ASSISTANT SCIENTIST

Authorised By

Dr. JOSEPHIN Environmental Scientist





## KERALA STATE POLLUTION CONTROL BOARD CENTRAL LABORATORY

കേരള സംസ്ഥാന മലിനികരണ നിയന്ത്രണ ബോർഡ് കേന്ദ്ര പരിക്ഷണശാല



Certificate No. TC 8525

### ANALYSIS REPORT

Analysis Report No.		Date	26.03.2022	Format No.PCB/CL/CH/F-7
Ref. No. PCB/EKM/DO-1/ dated 03.03.2022		Date of Collection		03.03.2022
Received From	D O Ernakulam	Date of	Receipt	03.03.2022
No. of Sample	1	Period of Analysis		03.03.2022 - 19.03.2022
Source	Elamkulam Common Treatment	Scientist-in-charge		Dr. Josemin
Sample Condition	Fit for analysis	Sample Type		Waste Water samples
Sample collected by	EE DO Ernakulam	Sample volume & container type		2 L Plastic Can
Sample preservation	As per APHA/IS:3025 (Part-1)	Type of Test		Chemical

SAMPLE ID: ELM

SL No	Parameters	Unit	Value	Test Method	Detection Limit
1	pH	***	7.24	APHA, 4500-H+B,23 <sup>rd</sup> Ed., 2017	3 to 12
2	Total Suspended Solids	mg/L	BDL	APHA, 2540-D, 23rd Ed., 2017	10 mg/L
3	Ammoniacal Nitrogen	mg/L	10.8	APHA-4500 NH3-C, 23rd Ed., 2017	0.02 mg/L
4	BOD	mg/L	10.2	1S 3025 Part( 44): 1993	2 to 500 mg/L
5	COD	mg/L	64	APHA, 5220-B, 23 <sup>rd</sup> Ed., 2017	4 to 1000 mg/L
6	Oil & Grease	mg/L	BDL	APHA, 5520-B, 23 <sup>rd</sup> Ed., 2017	5 mg/L
7	Total Nitrogen	mg/L	0.55	APHA, 4500-N-Org B, 22ND Ed., 2012	0.2 mg/L

-- End of Report--

Checked By

ANJU-LAL

ASSISTANT SCIENTIST

Authorised By

Dr. JOSEMIN '
Environmental Scientist





### KERALA STATE POLLUTION CONTROL BOARD

DISTRICT OFFICE (ERNAKULAM -II), PERUMBAVOOR

PMC 20/733, Govt. Hospital- KSRTC Road, Near Kallunkai Auditorium, Perumbayoor-883 542

Telephone 0484-2593747

E-mail: pebdo2ekm/a/gmail.com Website: www.keralapeb.nic.in

Date: 30.06.2022

PCB/PBR/LAB/1/2013

# ANALYSIS REPORT

Source

: CETP KINFRA SMALL INDUSTRIES NELLAD

Sample Point

: ACF OUTLET

D.0.5

: 16.06.2022

D.O. Rd

: 18.06.2022

Collected by

: NAMP-II

Sample ID

: PCB-94

Sl.No.	Parameters	Unit	Value	Test Method	KSPCB Limit
4	Hq		7.56	APHA, 4500 H B 22 <sup>nd</sup> Edition 2012.	6.0-9.0
2	BOD	mg/l	240	APHA, 5210 B, 22 <sup>nd</sup> Edition 2012.	30
3	COD	mg/l	720	APHA 5220 B, 22 <sup>nd</sup> Edition 2012	250
4	SS	mg/l	122	APHA 2540 D, 22 <sup>nd</sup> Edition 2012	100
5	OIL &GREASE	mg/l	BDL	APHA, 5520 B, 22nd Edition 2012	10
6	FLUORIDES	mg/I	1	APHA, 4500-F°C, 22 <sup>nd</sup> Edition 2012	2
7	CHLORIDES	mg/l	114	APHA, 4500-Cl B, 22 <sup>nd</sup> Edition 2012	1000
8	SULPHATES	mg/I	372.9	APHA, 4500-SO4, 22 <sup>nd</sup> Edition 2012	1000
9	SULPHIDES	mg/l	39,6	APHA-4500-S <sup>2</sup> /D 22 <sup>nd</sup> Edition 2012	2
10	AMMONIACAL NITROGEN	mg/l	0.56	APHA, 4500-NH <sub>3</sub> -F, 22 <sup>nd</sup> Edition 2012	50
13	PHENOLIC COMPOUNDS	mg/l	BDL	APHA, 5530 C. 22 <sup>nd</sup> Edition 2012	1.0

Kerula State Pollution Control Board Bist. Office (Srnakulain-II)

B 7 JUL 2022

SARANYA DAS.K

ASSISTANT SCIENTIST

ASHRAMP2 2180

NO.



### KERALA STATE POLLUTION CONTROL BOARD

DISTRICT OFFICE (ERNAKULAM -II), PERUMBAVOOR

PMC 20/733, Govt. Hospital- KSRTC Road, Near Kallunkai Auditorium, Perumbayoor-883 542

Telephone 0484-2593747

E-mail: pebdo2ekm/a/gmail.com Website: www.keralapeb.nic.in

Date: 30.06.2022

PCB/PBR/LAB/1/2013

# ANALYSIS REPORT

Source

: CETP KINFRA SMALL INDUSTRIES NELLAD

Sample Point

: ACF OUTLET

D.0.5

: 16.06.2022

D.O. Rd

: 18.06.2022

Collected by

: NAMP-II

Sample ID

: PCB-94

Sl.No.	Parameters	Unit	Value	Test Method	KSPCB Limit
4	Hq		7.56	APHA, 4500 H B 22 <sup>nd</sup> Edition 2012.	6.0-9.0
2	BOD	mg/l	240	APHA, 5210 B, 22 <sup>nd</sup> Edition 2012.	30
3	COD	mg/l	720	APHA 5220 B, 22 <sup>nd</sup> Edition 2012	250
4	SS	mg/l	122	APHA 2540 D, 22 <sup>nd</sup> Edition 2012	100
5	OIL &GREASE	mg/l	BDL	APHA, 5520 B, 22nd Edition 2012	10
6	FLUORIDES	mg/I	1	APHA, 4500-F°C, 22 <sup>nd</sup> Edition 2012	2
7	CHLORIDES	mg/l	114	APHA, 4500-Cl B, 22 <sup>nd</sup> Edition 2012	1000
8	SULPHATES	mg/I	372.9	APHA, 4500-SO4, 22 <sup>nd</sup> Edition 2012	1000
9	SULPHIDES	mg/l	39,6	APHA-4500-S <sup>2</sup> /D 22 <sup>nd</sup> Edition 2012	2
10	AMMONIACAL NITROGEN	mg/l	0.56	APHA, 4500-NH <sub>3</sub> -F, 22 <sup>nd</sup> Edition 2012	50
13	PHENOLIC COMPOUNDS	mg/l	BDL	APHA, 5530 C. 22 <sup>nd</sup> Edition 2012	1.0

Kerula State Pollution Control Board Bist. Office (Srnakulain-II)

B 7 JUL 2022

SARANYA DAS.K

ASSISTANT SCIENTIST

ASHRAMP2 2180

NO.

Status of CSTPs/CETPs which are operational

SI. No.	City/Town	STP/ETP Location	Status	Installed capacity	Utilization	Process
1		Sewage Treatment Plant at Sannidhanam (5MLD) Maintained by Travancore Devaswom Board	Seasonally Operated during festival season (Parameters complied with standards)	5MLD	3.5MLD	UASM and SBR
2	Pathanamthitta	Sewage Treatment Plant at Pamba (3.5 MLD) maintained by Travancore Devaswom Board	Seasonally Operated during festival season (parameters complied with standards stipulated)	3.5MLD	3.5MLD	Coagulation & Settling
3		Common Effluent Treatment Plant at Kinfra Food Processing Park, Elamannoor, Adoor	Operating (parameters not complied with standards)	225 m3/day	220 m3/day	Coagulation & Settling



email: kspcbpta@gmail.com

# KERALA STATE POLLUTION CONTROL BOARD

ജില്ലാ ആഫീസ് , OPP ജനറൽആശുപത്രി, KK Nair Road, കുന്നിതോട്ടത്തിൽബിൽഡിങ്, പത്തനംതീട്ട-689 645

web site: www.keralapcb.nic- for Online registration, visit-krocmms.nic.in/KSPCB ഭരണഭാഷ -മാതൃഭാഷ

# **ANALYSIS REPORT**

Date: 13.05.2022

Source: Kinfra food processing Industrial park, Common ETP

Date of sampling: 04.05.2022

Date of sample Received: 05.05.2022

NATURE OF SAMPLE: Effluent

SL NO	Parameter	Unit	PCB 389	COM-145	COM-940	Limit
# H			Equilization tank	Aeration tank	Treated water	100
1	рН	¥	5.9	6.2	6.8	5.5 – 9.0
2	BOD	mg/L	110	80	50	30
3	COD	mg/L	288	176	96	250
4 .	SS	mg/L	135	98	63	100
5	O & G	mg/L	18	14.	3 11	10
6	тс	mg/L	NIL	NIL	NIL	WEA

Remarks: BOD,O&G, exceeded the limit.

# ANALYSIS REPORT OF STP SANNIDHANAM

Date of Sampling 20.01.2022

SL.NO.	STATIONS	H		116	PARAMETEI	2	F 2
		pН	TSS (mg/L)	BOD (mg/L)	OIL& GREASE	TC CFU/100ml	FC CFU/100ml
1.	STP (BEFORE DISINFECTION)	6.5	33.6	34.4	14.26	8	2 (Sa)
2.	STP (AFTER DISINFECTION)	7.6	-		3.68	NIL	NIL

ASSISTANT SCIENTIST

Beiner V. R

# NATIONAL RIVER CONSERVATION PROGRAMME APRIL-2022

# NRCP

# DATASHEET

Station

: STP @ PAMBA

Completed by: KSPCB, DISTRICT OFFICE, PATHANAMTHITTA

1	Station code	2	0	0	1	7					
2	Date and time of sample taken (DD/MM/YY, HH/MM)			J		L	Į.		46		
		1	6	0	4	2	2	I	0	2	0
3	Volume of Inflow ( in MLD)		17.		earres	HOF I	3.5				1

SI.NO.	Parameter	Unit	I/L	O/L
ľ	pH		8,6	7.7
2	BOD	mg/L	200	50
3	COD	mg/L	.432	.112
4	SUSPENDED SOLIDS	mg/L	312	94

# ജില്ലാ ഓഫീസ്, ആലപ്പുഴ

# കേരള സംസ്ഥാന ലിനികരണ നിയന്ത്രണ ബോർഡ് KERALA STATE POLLUTION CONTROL BOARD DISTRICT OFFICE, ALAPPUZHA

SNV Sechanath, New Chathanad, Head Post Office, Alacoustia - 688001 6-mail: alpy pct-Sigmail com, Telephone - 0477 - 2235384 - web, www.keralaoch.nac.in

ൈൻഡെസ്ൽ അവക്ഷകൾ സമർപ്പിക്കുന്നതിന് <u>www.krocmms.nkc.id</u> എന്ന വെബ്സൈറ്റ് ഉപയോഗിക്കുക,

PCB/ALP/UCO-539/08

22.08.2022

From

**Environmental Engineer** 

To

The Member Secretary, Kerala State Pollution Control Board, Head Office, Pattom, Thiruvananthapuram.

Sub:- Details of CETPs-Reg.

Ref:- That office e-mail dated 19.07.2022

Sir,

In reply to the reference cited above. The details of the following CETPs along with installed capacity, utilisation capacity, and operational status are furnished below.

SL. NO	CETPS	CAPACITY, UTILISATION CAPACITY	OPERATION AL STATUS	REMARKS
1	CETP, Mega food park, Cherthala	2MLD	Started operation by March, 2022	Performance quite good as per analysis report. But not started discharging to lake (currently during inspection it was found discharge to nearby plot for irrigation near CETP after treatment).

2	Aroor Seafood park, Eramalloor	5 Lakhs L/Day	Operational	Discharge from 10 seafood units is treated in this CETP which is in operation. Connected to OCEMS with 4 parameters is in operation.
3	CETP Chandiroor (ACCEPT)	1 <sup>st</sup> phase 1.5 MLD. 2 <sup>nd</sup> phase 1.5 MLD.	Not started any construction activities.	Only land provided by society. Rs, 300 Lakhs was issued by the Board for the implementation. But the project not get started and the amount was also not get refunded to the Board.
4	Aroor Industrial Dept	More than 100 KLD	Proposed CETP land not get acquired by DIC from JIS International Exports Pvt Ltd (cold store).	Capacity not get finalised by Industrial department. Work allotted to KITCO. There is case in High Court regarding land acquisition. It is highly essential to establish CETP in this locality as 75 numbers of industries located in this Industrial estate having 16 seafood processing units (as reported by DIC) which is one of the most polluted hot spot in Alappuzha.

Your's faithfully,

ENVIRONMENTAL ENGINEER

SMITHA C V
ENVIRONMENTAL ENGINEER
KERALA STATE POLLUTION CONTROL BOARD
DISTRICT OFFICE, ALAPPUZHA-1

the of River thod of analysis L. No Tempera Tempera Domegia BOD,mg/ NH3N,m					Application of the last of the				-				
4 5 6				Analysis re	report for	port for the mosts of tune 3037	of time 30	0.0					
5 6					2	RIVER 1-KA	RINAMMER	2 & DW/ED	RIVER T-KARINANNIB & BUCES TOWN AND				
6	e & Time of sample collection						14 OC 2022	O TO OUT	C-LTALAKU	74			
	slysis						14.00.4022 & 13.06.2022	6 13.00.2	777				
	PARAMETER						SAM	SAMPLEID					
	and the second	K1	K2	K3	Kd	500	3/1	7-12	1	0.7			
	Temperature, "C	33	32	31	28	20	36	200	3 8	3 5	3	S	90
		7.02	7.09	7.16	7.16	7.07	7.15	747	200	30	QF .	578	34
	Turbidity, NTU	8.1	3.2	7	a	4.4		197	117	7.08	7.21	7.02	6.95
	Electrical Conductivity, u/cm	2004	137.4	2634	2 25.0	1	77	0.4	6.3	4.7	7.1	8.4	9'9
	me/l	5 57	2.60	d John	151/	194	189.2	125	109.8	119.5	116.3	169.4	176.1
П	8OD me//	1 36	2000	97.7	2.5	5.98	9	8.45	7.8	7.28	7.35	7.67	7.78
Ī	NHW WHY	1,00	1.3	3.23	0.65	1.43	1.3	1.82	1.3	1.78	1.36	2.5	1.43
	The second	BUL	108	108	108	BDL.	BDI	108	801	108	BDR	RDI	100
T	Wilder Fig.	0.54	0.62	0.56	0.48	0.71	0.65	0.35	0.58	0.64	0.50	0.74	100
1	Chloride, rig/l	16	10	15	14	22	19	Q	40		0000	0.74	0.45
	Phosphate,mg/l	901	BDL	TOB	BDt	BDi	BOV	BA	100	2.0	DT.	2	18
	Total Alkalinity,mg/l	34	35	30	36	40	34	TOO	200	BUL	BDL	BDL	BOL
12 Tota	Total Hardness,mg/I	35	3.47	30	30	000	200	22	14	15	17	90	16
3 Calci	Calcium.mg/l	116	3.6	0.0	07	35	30	175	11	14	16	22	29
4 Mag	Magnesium,mg/I	1.46	0.40	2.0	6.4	17.8	10.8	4	3.6	4.8	5.6	100	80.00
	Sodium,mg/l	4.49	154	3.03	160	0.73	0,73	0,49	0.49	0.49	0.49	0.49	1.7
-	Potassium.me/l	0.01	Ach	2000	3.94	60.0	5.02	1,64	1.38	1.53	1.84	2.39	2.46
	Boron me/l	and a	0000	27.0	0.64	1.55	0.88	0.36	0.31	0.34	0.35	0.37	0.57
T	hate	3.46	DOL	200	900	800	BDL	801	BDL	BDL	108	BDI.	108
		2.13	2.02	1.94	2.3	9,45	4.24	801	TOB	BDL	108	BDH	RDI
	Tr whittoo	0.53	77	0.24	0.3	0.44	9.4	0.21	0.18	0.18	0.2	0.77	0.0
Τ	A Jacob IIII	1000	1200	1500	800	009	1000	700	600	300	700	900	and a
70,00	TC,COO, JOB MI	400	200	700	300	200	400	300	300	100	400	300	2000
1576.1	Calculated mi	20	20	20	10	20	20	9	20	9	US	04	Arie

Vettilapara
Kanjirappiliy
Chalakudy
Pulikkakadavu

Mupliyam Palakkadayu

1 2 2 2 2 5 5

Kainoor

Sample Details

Karlvannur Kottenkodu Karanchira

Due date of receipt of this report in the BHO HO in the 15th of every calendar monthly.

Form for Record Keeping

For the month of June 2022

# PROGRESS REPORT - WATER QUALITY MONITORING KERALA STATE POLLUTION CONTROL BOARD

Regional/District Office: Thrissur

Details of Samples

TO LOW		Wednesday to the second	-					
1117	Station	Рюgгаліте	Sample No.	Date of sampling	Date sent to Laboratory	Date of receipt of analysis report	Date of dispatch of analysis report to Head Office	Remarks
3	(2)	(3)	(4)	(5)	(9)	(1)	10/	7007
RUVANNOOR	KARUVANNOOR Kainoorchira Bridge		K	14.06.2022	14 06 2073	14 06 2000	(0)	(%)
			2000	E E E E E E E E E E E E E E E E E E E				
	Muliyam Bridge		K2		*			
			-					
	Falakadavu		2		E	*:		
	4							
	Naruvannur Bridge		K4	*				
	Kottenkodu	E	KS	ŧ		*		
	Koronohim		4.00					
	Not distilled		20			#		

Details of all samples, the analysis results of which have not yet been sent to HO be included in this report

Date of this report: 02,07,2022

Signature of Officer

Designation

ENVIRONMENTAL ENGINEER
Kerala State Pollution Control Board
District Office, Thrissor

Due date of receipt of this report in the BHO HO in the 15th of every calendar monthly. Form for Record Keeping

# PROGRESS REPORT - WATER QUALITY MONITORING KERALA STATE POLLUTION CONTROL BOARD

For the month of June 2022

Regional/District Office: Thrissur

Details of Samples

patch Remarks eport	197	(8)						
Date of dispatch of analysis report to Head Office	(8)	(0)						
Date of receipt of analysis report	(2)	13.06.2022	E	e	13	V		
Date sent to Laboratory	(9)	13.06.2022	=	*				
Date of sampling	(5)	13.06.2022		×	×		12	
Sample No.	(4)	ij	S	C3	2		8	93
Programme	(3)							
Station	(2)	Peringal	Kanjirappilly	Vettilapara	Chalakudy	Bridge	Pulikkakadavu	Pelpuzhakadavu
Viver	0	CHALAKUDY				1		

Details of all samples, the analysis results of which have not yet been sent to HO be included in this report

Date of this report: 02:07.2022

Signature of Officer

Designation

Kerala State Pollution Control Roard District Office, Thrissur



### KERALA STATE POLLUTION CONTROL BOARD DISTRICT OFFICE RUBCO HOUSE,6TH FLOOR, SOUTU BAZAR, KANNUR-670002.

	-		Company of the Compan	1497-2711621			
				SREPORT	C)		
Report No	5:	KNR-995		Date:	21/07/2022		
Date of sa	mple	fil/7/2022		Date of receipt:	11/7/2023		
Sample re-	ceived	The Environmen	ıtal Engineer	Sample ID:	EFF 407		
Source: Effluent			Ref. Letter, No.	PCB/KNR/ICO/:	1504/2009		
Sample co	prainer:	PC 2.5L		Sampled by:	AE 1,AE-3		
Sample type: Effluent			Period of Analysi	11/07/2022 to	9/07/2022		
Specific sampling   STP Outlet of C   Effluent Treatm			Analysed by:	JSA 2			
Sample Preservati	on:	As per APHA/IS;3025 (Part 1)		No. of Samples	]		
Scientist - of Analys	in-Charge is :	Asst.Scientist		Method: Standard methods for the exami- water and Waste Water, APPA AWWA Ed)			
			ALC: U	Sumple ID			
Sl.No.	L'ai	rameters	Lnit	EFF:407			
I bH				9.8			
2 (000)		mg/L	40				
3 BOD(3 days at 27°C		ays at 27°C)	mg/L	- 8			
4 Total Dissulved Solids		mg/t	619.2				
5	Total Sus	pended Solids	mg/L	15			
6	Oil and g	теаяс	mg/L	0.96			

**BDL-Below Detection Limit** 

Phenolic Compound

NO- Not Detectable

Sample Details:

EFF.407 Common Effluent Treatment Plant, Kinfra, Nadukani, Kannur.

mg/L

This test results is restricted for the water sample collected by Assistant Engineer on Dt:11/D7/2022

0.657

only.

**Assistant Scientist** Kernie State Pointion Control Board Disaste Office, Kennus-870002

email: kspcbpta@gmail.com

Phone/ fax: 0468-2223983

# കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ് KERALA STATE POLLUTION CONTROL BOARD

ജില്ലാ ആഫീസ്, OPP ജനറൽആശുപത്രി, KK Nair Road, കുന്നിതോട്ടത്തിൽബിൽഡിങ്, പത്തനംതിട്ട-ങ്ങ 845 DISTRICT OFFICE, OPP.GENERAL HOSPITAL, KK NAIR ROAD, BEHIND AVG MOTORS, PATHANAMTHITTA689645

web site: www.keralapcb.nic.in - for Online registration, visit-krocmms.nic.in/KSPCB

PCB/PTA/TG/261/2017

03.08.2022

From

**Environmental Engineer** 

To

The Member Secretary

Kerala State Pollution Control Board

Sub:- Submission of report on operational CSTP/CETPs - reg:-

Ref:- That office Letter No. PCB/HO/EE3/NGT/673/2018/VOL VII/11/2020

Madam,

I am forwarding herewith report of operational CSTPs/CETPs including analysis report under our jurisdiction for the month of July 2022 for your kind information and necessary action.

Yours faithfully,

**ENVIRONMENTAL ENGINEER** 

Status of CSTPs/CETPs which are operational

SI. No.	City/Town	STP / ETP Location	Status	Installed capacity	Utilization	Process
1		Sewage Treatment Plant at Sannidhanam (5MLD) Maintained by Travancore Devaswom Board	Seasonally Operated during festival season (Parameters complied with standards)	5MLD	3.5MLD	UASM and SBR
2	Pathanamthitta	Sewage Treatment Plant at Pamba (3.5 MLD) maintained by Travancore Devaswom Board	Seasonally Operated during festival season (parameters complied with standards stipulated)	3.5MLD	3.5MLD	Coagulation & Settling
3		Common Effluent Treatment Plant at Kinfra Food Processing Park, Elamannoor, Adoor	Operating (parameters not complied with standards)	225 m3/day	220 m3/day	Coagulation & Settling

kspcbpta@gmail.com

Phone/ fax: 0468-2223983 കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്

# KERALA STATE POLLUTION CONTROL BOARD

ജില്ലാ ആഫീസ്, OPP ജനറൽആശുപത്രി, KK Nair Road, കുന്നിതോട്ടത്തിൽബിൽഡിങ്, പത്തനംതിട്ട-688 645 DISTRICT OFFICE, OPP.GENERAL HOSPITAL, KK NAIR ROAD, BEHIND AVG MOTORS, PATHANAMTHITTA689645

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ഭരണഭാഷ - മാതൃഭാഷ

PCB/PTA/ICO/40/2007 

21.06.2022

പ്രേഷിത

പരിസ്ഥിതി എഞ്ചിനീയർ

DESPATCHED | on 21.06/2022

സ്വീകർത്താവ് സെക്രട്ടറി ട്രാവൻകൂർ ദേവസ്വം ബോർഡ് നന്തൻകോട്, തിരുവനന്തപുരം

> 'Waste Disposal Facility at Pamba, Triveni P.O, Pamba, Pathanamthitta' വിഷയം :

> > യുടെ പ്രവർത്തനാനുമതി പുതുക്കുന്നത് – സംബന്ധിച്ച്.

സൂചന :

- 1) ICO/PTA/3170/R1/2017 നമ്പരായ 16.03.2021 തീയതിയിലെ 16.03.2022 വരെ കാലാവധിയോടുകൂടിയ അനുമതി.
- 2) 16.06.2022 തീയതിയിൽ നടത്തിയ പരിശോധനയും സാമ്പിൾ ശേഖരണവും.
- 21.06.2022 തീയതിയിലെ പരിശോധന റിപ്പോർട്ട്.

സർ,

സൂചനകളിലേക്ക് ശ്രദ്ധ ക്ഷണിക്കുന്നു. സൂചന പ്രകാരമുള്ള 'Waste Disposal Facility at Pamba, Triveni P.O, Pamba, Pathanamthitta' യുടെ പ്രവർത്തനാനുമതിയുടെ കാലാവധി 16.03.2022 ൽ അവസാനിച്ചിട്ടുള്ളതാണ്. സൂചന(1) പ്രവർത്തനാനുമതിയിൽ ഖരമാലിനൃ സംസ്ക്കരണ സംവിധാനങ്ങളും, ഇൻസിനറേറ്ററുകൾക്ക് Online Monitoring System/Temporary Recording എന്നിവ ഏർപ്പെടുത്തണമെന്ന് വ്യവസ്ഥ ചെയ്തിരുന്നു. മുൻ അനുമതിയിലെ വ്യവസ്ഥകൾ പാലിച്ച് അനുമതി പുതുക്കുന്നതിനായുള്ള ഓൺലൈൻ അറിയിച്ചുകൊള്ളുന്നു. കൂടാതെ വിവരം സമർപ്പിക്കേണ്ടതാണെന്നുള്ള അപേക്ഷ സൂചന(3) പരിശോധന തീയതിയിൽ ശേഖരിച്ച സാമ്പിളിന്റെ റിപ്പോർട്ട് 16.06.2022 BOD പ്രവർത്തനാനുമതി പ്രകാരമുള്ള അനുവദനീയ പരിധിക്ക് പുറത്താണ്. ഇത് സംബന്ധിച്ച വിശദീകരണവും, അനുവദനീയ പരിധി പാലിക്കുന്നതിനുള്ള വേണ്ട നട പടികളും സ്വീകരിച്ച് ആയത് രേഖാമൂലം ഈ ഓഫീസിൽ സമർപ്പിക്കേണ്ടതാണ്.

വിശ്വസ്തതയോടെ,

പരിസ്ഥിതി എഞ്ചിനീയർ

# STP AT PAMBA ANALYSIS REPORT

Date:26.07.2022

Date of sampling: 19.07.2022

Date of sample Received: 19.07.2022

SI.NO.	Parameter ·	Unit	I/L	O/L
	pH		8.1	7.7
- <u>2</u>	BOD	mg/l	190	30
3	COD	mg/l	384	112
4	SUSPENDED SOLIDS	mg/l	282	74

mumall.com Phone/ fax: 0468-2223983 ്യ സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ് KERALA STATE POLLUTION CONTROL BOARD

ചെയ്യുന്ന അഫീസ്, OPP ജനഠൽആശുപത്രി, KK Nair Road, കുന്നിതോട്ടത്തിൽബിൽഡിങ്, പത്തനാതിട്ട-689 645 OFFICE, OPP.GENERAL HOSPITAL, KK NAIR ROAD, BEHIND AVG MOTORS, PATHANAMTHITTA689645

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ഭരണഭാഷ - മാതൃഭാഷ

# PTA/ICO/4337/2022 - 5010 000 6010 (0) The (07) Left of 00

12000 coloroscionarios, clarifica statemotor work statemento

Chlorine dosing (alculomosos) muos some collection

പരിസ്ഥിതി എഞ്ചിനീയർ തന്നെ നൽകിന്മിരുന്നതുമാണ്. പരിശോധനാഫലം അനുസരിച്ച്, ആബ

ഗുണനിലവായം കൈവരിക്കുന്നില്ല എന്ന് കണ്ടെത്തിയതിനാൽ സൂചന്ദ്രിനത്തികീഗ്ന

The Managing Director a margin seconds the margin for the second of the marging Director KINFRA House moun performance accompandadom montes totale A soften

TC, 3/2321 തെക്കുൻ (മ)നില്ലെ നാത്രുത്ത തുണ്ടാക്ക് മുന്നുക പ്രണുവരിയാക്കാര

Sasthamangalam, Thiruvananthapuram ന്നുള്ളതോളൂടിയിന്നെ വേരില് സ്വരം എട്ടിയിത്തുടുക്കാരെ (യാത്വം(രാഹിലം ഉൾ)

വിഷയം : CETP, KINFRA, Adoor പ്രവർത്തനാനുമതിയിലെ നിബന്ധനകൾ ഉൾപ്പെടുന്നതും, മലിനജല സംസ്കരണ സംവിധാവ്ലീധ്വന്താന് - പ്രത കുളര് മാസ്യൂം 

- സൂചന : 1) ICO/PTA/4294/2022 നമ്പർ 25.02.2022 തീയതിയിലെ 31.01.2026 തീയതിവരെ കാലാവധിയുള്ള പ്രവർത്തനാനുമതി.
  - 2) 04.05.2022 തീയതിയിൽ ബോർഡ് ഉദ്യോഗസ്ഥർ CETP യിൽ നടത്തിയ പരിശോധനയും, ശുദ്ധീകരിച്ച മലിനജലത്തിന്റെ ശേഖരണവും, പരിശോധനാ ഫലവും.
- 3) ഈ ഓഫീസിലെ ഇതേ നമ്പർ 03.06.2022 തീയതിയിലെ OCEMS മായി ബന്ധപ്പെട്ട് നൽകിയ നിർദ്ദേശങ്ങൾ
- 4) ഈ ഓഫീസിലെ PCB/PTA/TG/59/2007/VOL-XII നമ്പർ 16.05.2022 തീയതിയിലെ നിർദ്ദേശം.
  - 5) 20.06.2022 തീയതിയിൽ ബോർഡ് ഉദ്യോഗസ്ഥർ CETP യിൽ നടത്തിയ പരിശോധനയും ശുദ്ധീകരിച്ച മലിനജലത്തിന്റെ ശേഖരണവും, പരിശോധനാഫലവും.
  - 6)28.06.2022 തീയതിയിൽ ആ ഓഫീസിൽ നിന്നും സമർപ്പിച്ച മറുപടി.
  - 7) ഈ ഓഫീസിലെ പിസിബി/പിറ്റിഎ/റ്റിജി/59/2007/Vol-XII നമ്പർ 29.06.2022 തീയതിയിലെ നിർദ്ദേശം.

സർ,

മേൽ സൂചനകളിലേക്ക് ശ്രദ്ധ ക്ഷണിക്കുന്നു. സൂചന (1) പ്രകാരം അങ്ങയുടെ ഉടമസ്ഥതയിലുള്ള അടൂർ Kinfra Park ൽ സ്ഥാപിച്ചിട്ടുള്ള CETP ക്ക് (പൊതു മലിനജല സംസ്കരണ പ്ലാന്റിന്) 31.01.2026 തീയതിവരെ കാലാവധിയുള്ള പ്രവർത്തനാനുമതി

amulan maaafmhaa menima ലഭ്യമാക്കിയിട്ടുള്ളതാണ്. ആയതിൻ പ്രകാരം ശുദ്ധീകരിച്ച മലിനജലത്തിന് ഒ നിഷ്കർഷിക്കുന്ന ഗുണനിലവാരം (നിബന്ധന 2.4) കൈവരിക്കേണ്ടതാണെ നിബന്ധന 5.7 (water meter സ്ഥാപിക്കുക), നിബന്ധന 5.8 (TOD meter സ്ഥാപിക്കു നിബന്ധന 5.10 (online monitoring system സ്ഥാപിക്കുക), നിബന്ധന 5.11 (CCTV സ്ഥാപ ക്കുക) തുടങ്ങിയ വ്യവസ്ഥകൾ പാലിക്കേണ്ടതുമാണ്. നിബന്ധന 5.10 പാലിക്കുന്നത് സംബന്ധിച്ച് വൃക്തമായ അറിയിപ്പ് സൂചന(3) പ്രകാരം നൽകിയിട്ടുള്ളതാണ്. സൂചന(2) പ്രകാരം നടത്തിയ പരിശോധനയിൽ, clarifier ലെ motor work ചെയ്യാത്തതും, പൈപ്പ് ലൈനുകൾക്ക് ലീക്ക് ഉള്ളതും, Chlorine dosing പ്രവർത്തനരഹിതമാണെന്നുള്ളതും ശ്രദ്ധ യിൽപ്പെട്ടിട്ടുള്ളതും, ആയത് പരിഹരിക്കുന്നതിനുള്ള നിർദ്ദേശം പരിശോധനാ സമയത്ത് തന്നെ നൽകിയിരുന്നതുമാണ്. പരിശോധനാഫലം അനുസരിച്ച്, ശുദ്ധീകരിച്ച മലിനജലം ഗുണനിലവാരം കൈവരിക്കുന്നില്ല എന്ന് കണ്ടെത്തിയതിനാൽ സൂചന(4) പ്രകാരം മതി യായ നിർദ്ദേശം നൽകിയിരുന്നതാണ്. എന്നാൽ സൂചന(5) പ്രകാരം നടത്തിയ പരിശോധ നയിൽ, Aerator പ്രവർത്തനരഹിതമാണെന്നും, ശേഖരിച്ച സാമ്പിളുകൾ ഗുണനിലവാരം കൈവരിക്കുന്നില്ല എന്നും കണ്ടു. തുടർന്ന് സൂചന(4) പ്രകാരം വീണ്ടും നിർദ്ദേശം നൽകിയിട്ടുള്ളതുമാണ്. എന്നാൽ സൂചന(6) പ്രകാരം സമർപ്പിച്ച മറുപടിയിൽ ന്യൂനത കൾ പരിഹരിച്ചതായി രേഖപ്പെടുത്തിയിട്ടില്ല എന്ന വിവരം അറിയിച്ചുകൊള്ളുന്നു.

പൊതു മലിനജല സംസ്കരണ സംവിധാനങ്ങൾ (CETP), റെഡ് കാറ്റഗറിയിൽ ഉൾപ്പെടുന്നതും, മലിനജല സംസ്കരണ സംവിധാനങ്ങളുടെ പര്യാപ്തത എല്ലാ മാസവും, CPCB server ലേക്ക് upload ചെയ്യേണ്ടതുമാണ്. ആയതിനാൽ ടി സംവിധാനത്തിന്റെ പോരാ യ്മകൾ ഉടനടി പരിഹരിച്ച് (ആവശ്യമെങ്കിൽ stand by motor കൾ സ്ഥാപിച്ച്), പരാമീറ്ററു കൾ ബോർഡ് നിഷ്കർഷിക്കുന്ന നിലവാരം കൈവരിക്കണമെന്നും, അനുമതിയിലെ മറ്റ് നിബന്ധനകൾ ഉടനടി നടപ്പിലാക്കണമെന്നും അറിയിച്ചുകൊള്ളുന്നു. സ്വീകരിച്ച നടപടി കൾ രേഖാമൂലം അറിയിക്കേണ്ടതാണ്.

ZMSDO Landwind 2000 60 80 മൂന്നു തള്ള പ്രതിന്നിവേഴെ നയ്യവിശ്വസ്തതയോടെ,

TO SEE SECURIORS PCB/PTA/TG/S9/2007/VOL-2511 mmuit 16.05.2022 ത്രാളത്തെ പ്രത്യാത്തെ പരിസ്ഥിതി എഞ്ചിനീയർ

പകർപ്പ് : 1) ചീഫ് എൻവയോൺമെന്റൽ എഞ്ചിനീയർ, റീജിയണൽ ഓഫീസ്, തിരുവനന്തപുരാം പ്രഹത്താത്തിലെ ശുഥന്ദരവരവാ

29.06.2022-തിയതിയിലെ നിർദ്ദേശം.

ശോഖരണവും, പരിശോധനാ ഫലവും

മായി ബസാപ്പെട്ട നൽകിയ നിർദ്വേശങ്ങൾ

2) മാനേജർ, KINFRA, അടൂർ

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സംസ്കരണ പ്ലാന്റിന്) 31.01.2026 തിയതിവാൻ കാലാവധിയുള്ള പ്രവർത്തവണ്ടാതി

7) ggg sono'lm/less allouismil/alglag/gles//59/2007/Vol-XII moud





email: kspcbpta@gmail.com

Phone/ fax: 0468-2223983

# കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ് KERALA STATE POLITICAL CONTROL BOARD

# KERALA STATE POLLUTION CONTROL BOARD

ജില്ലാ ആഫീസ് , OPP ജനറൽആശുപത്രി, KK Nair Road, കുന്നിതോട്ടത്തിൽബിൽഡിങ്, പത്തനംതിട്ട-689 645

web site: www.keralapcb.nic- for Online registration, visit-krocmms.nic.in/KSPCB ഭരണഭാഷ -മാതൃഭാഷ

# **ANALYSIS REPORT**

Date: 02.08.2022

Source: Kinfra food processing Industrial Park, Elamannoor (Common ETP)

Date of sampling: 23.07.2022

Date of sample Received: 25.07.2022

NATURE OF SAMPLE: Effluent

SL NO		Unit	PCB 695	PCB 192	PCB 198	PCB 62	Limit
			Equilization tank	Aeration tank	Secondary Clarifier	Final Outlet	
1	рН		4	5.5	5.9	6,5	5.5-9.0
2	BOD	mg/l	100	70	50	32	30
3	COD	mg/l	288	208	160	112	250
4	ss	mg/l	164	114	96	90	100
5	0 & G	mg/l	15.6	14.4	11.2	10.4	10

Remarks: BOD,O&G Slightly exceeded the limit

email: kspcbpta@gmail.com

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# കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ് KERALA STATE POLLUTION CONTROL BOARD

ജില്ലാ ആഫീസ്, OPP ജനറൽആശുപത്രി, KK Nair Road, കുന്നിതോട്ടത്തിൽബിൽഡിങ്, പത്തനംതിട്ട-888 845 DISTRICT OFFICE, OPP.GENERAL HOSPITAL, KK NAIR ROAD, BEHIND AVG MOTORS, PATHANAMTHITTA689645

web site: www.keralapcb.nic.in - for Online registration, visit-krocmms.nic.in or keralapcbonline.com

ഭരണഭാഷ - മാതൃഭാഷ

PCB/PTA/ICO/2781/2017

പ്രേഷിത

പരിസ്ഥിതി എഞ്ചിനീയർ

DESPATORE 3022

ON 29/06/2022

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**TSI** 

സ്വീകർത്താവ്

എക്സിക്യൂട്ടീവ് എഞ്ചിനീയർ ട്രാവൻകൂർ ദേവസ്വം ബോർഡ് സന്നിധാനം, ശബരിമല

വിഷയം :

'STP 5 MLD ശബരിമല സന്നിധാനം' ന്റെ പ്രവർത്തനാനുമതി പുതുക്കുന്നത് – സംബന്ധിച്ച്.

സൂചന :

- 1) 31.03.2019 തീയതിവരെയുണ്ടായിരുന്ന PCB/RO/PTA/ICO/07/2017 നമ്പർ അനുമതി.
- 2) ഓൺലൈൻ അപേക്ഷാ നമ്പർ 14075014 തീയതി 06.10.2020, അനുമതി പുതുക്കുന്നതിനായി സമർപ്പിച്ച അപേക്ഷ.
- 3) 16.06.2022 ൽ ബോർഡുദ്യോഗസ്ഥർ നടത്തിയ സ്ഥല പരിശോധനയും സാമ്പിൾ ശേഖരണവും.
- 4) 21.06.2022 തീയതിയിലെ പരിശോധനാ റിപ്പോർട്ട്.

സർ,

മേൽ സൂചനകളിലേക്ക് ശ്രദ്ധ ക്ഷണിക്കുന്നു. 'STP 5 MLD ശബരിമല സന്നിധാനം' ന്റെ സൂചന(1) പ്രകാരമുള്ള അനുമതി 31.03.2019 തീയതി അവസാനിച്ചിട്ടുള്ളതാണ്. അനുമതി പുതുക്കുന്നതിനായി സൂചന(2) പ്രകാരമുള്ള അപേക്ഷ താങ്കൾ ഈ ഓഫീസിൽ സമർപ്പി എന്നാൽ സൂചന(3) പ്രകാരം നടത്തിയ പരിശോധനയിൽ നിന്നുള്ള സാമ്പിൾ ശേഖരിക്കുകയുണ്ടായി. ആയതിന്റെ സൂചന(4) പ്രകാരമുള്ള പരി ശോധനാഫലം പ്രകാരം BOD, Oil and Grease എന്നീ പരാമീറ്ററുകൾ നിശ്ചിത പരിധിക്ക് പുറത്താണ് എന്ന് കണ്ടെത്തിയിരിക്കുന്നു. ഇത് സംബന്ധിച്ച വിശദീകരണവും, പരിഹരി ക്കാൻ സ്വീകരിച്ച നടപടികളും കത്ത് കിട്ടി 15 ദിവസത്തിനുള്ളിൽ ഈ ഓഫീസിൽ താങ്കളുടെ സുചന(2) പ്രകാരമുള്ള അപേക്ഷ അതിനു ശേഷം മാത്രമേ പരിഗണിക്കുകയുള്ളൂ എന്ന് അറിയിച്ചുകൊള്ളുന്നു.

വിശ്വസ്തതയോടെ,

പരിസ്ഥിതി എഞ്ചിനീയർ

ഉള്ളടക്കം : പരിശോധനാഫലം

# STP AT SANNIDHANAM ANALYSIS REPORT

Date:26.07.2022

Date of sampling: 19.07.2022

Date of sample Received: 19.07.2022

Station						
	pН	TSS (mg/l)	BOD (mg/l)	OIL&GREASE (mg/l)	TDS (mg/l)	TC CFU/100ml
OUT LET	5.9	86	46	9	288	480



# KERALA STATE POLLUTION CONTROL BOARD

DISTRICT OFFICE (ERNAKULAM-II), PERUMBAVOOR PMC 20/733 Govt. Hospital- KSRTC Road, Near Kallunkal Auditorium, Perumbayoor-683 542

Triephone 0484-2593747

PCB/PBR/LAB/1/2013

E-mail: pcbdo2ekm@gmail.com Website: www.keralapcb.nic.in

Date: 20.07.2022

# ANALYSIS REPORT

Source

: SEPTAGE TREATMENT PLANT, BRAHMAPURAM

Sample Point : FILTERED EFFLUENT TANK

DOS.

: 14.07.2022

D.O. Rd

: 15.07.2022

Collected by

: NAMP-I

Sample ID

: PCB-261

SI.No.	Parameters	Unit	Value	Test Method	KSPCB Limit
· V	pH		7.44	APHA, 4500 H <sup>+</sup> B 22 nd Edition 2012.	6-9
2	BOD	mg/l	12	APHA, 5210 B, 22 <sup>nd</sup> Edition 2012,	30
3	COD	mg/l	32	APHA, 5220 B, 22 <sup>rd</sup> Edition 2012	250
4	OIL &GREASE	mg/f	BDL	APHA, 5520 B, 22 <sup>hd</sup> Edition 2012	10
5	SS	mg/l	BDL	APHA, 2540-D, 22 <sup>nd</sup> Edition 2012	100
6	PHOSPHATES	mg/I	0.18	APHA-4500 P-E 22 <sup>nd</sup> Edition 2012	5
7	NITRATES	mg/l	12.76	APHA 4500-NO3-E, 22 <sup>nd</sup> Edition 2012	10
8	SULPHATES	mg/l	26.59	APHA, 4500-SO4, 22 <sup>nd</sup> Edition 2012	1000
9	SULPHIDES	mg/I	39.2	APHA-4500-S <sup>2</sup> D 22 <sup>nd</sup> Edition 2012	2
10	AMMONIACAL NITROGEN	mg/l	0.02	APHA, 4500-NH <sub>2</sub> -F, 22 <sup>nd</sup> Edition 2012	50
II.	PHENOLIC COMPOUNDS	mg/l	BDL	APHA, 5530 C. 22nd Edition 2012	1
12	TOTAL COLIFORM	cfu/100ml	30	APHA 9222B, 22 <sup>nd</sup> Edition 2012	
13	FAECAL STREPTOCOCCI	cfu/100ml	50	APHA 9230 A. 22 <sup>rd</sup> Edition 2012	



SARANYA DAS.K



# KERALA STATE POLLUTION CONTROL BOARD DISTRICT OFFICE (ERNAKULAM-II), PERUMBAYOOR

PMC 20/733, Govt. Hospital- KSRTC Road, Near Kallunkal Auditorium, Perumbayoor-683 542

Telephone: 0484-2593747

PCB/PBR/LAB/1/2013

E-mail pebdo2ekm/a/gmail.com Website: www.keralapcb.nic.in

Date: 19.09.2022

# ANALYSIS REPORT

Source

: BPCL KOCHI REFINERY, AMBALAMUGHAL

Sample Point

: Outlet A

Ref

.

D.O.S

: 14.07.2022

D.O. Rd

: 15.07.2022

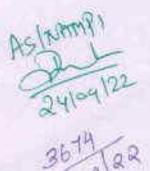
Collected by

: NAMP-I

Sample 1D

: PCB-3482

Sl.No.	Parameters	Unit	Value	Test Method	KSPCB Limit
I	pН		6.72	APHA, 4500 H B 22 <sup>nd</sup> Edition 2012.	6.0-8.5
2	BOD	mg/l	5	APHA, 5210 B, 22 <sup>nd</sup> Edition 2012.	15
3	COD	mg/l	20	APHA, 5220 B, 22 <sup>nd</sup> Edition 2012	125
4	SS	mg/l	46.8	APHA, 2540-D, 22 <sup>tol</sup> Edition 2012	20
5	Phosphates	mg/l	0.10	APHA-4500 P-E 22 <sup>rd</sup> Edition 2012	3.0
6	Ammoniacal nitrogen	mg/l	0.11	APHA 4S00-NH3-F, 22 <sup>nd</sup> Edition 2012	15
7	Phenolic Compounds	mg/l	BDL	APHA 5530 C, 22nd Edition 2012	0.35
8	Oil and Grease	mg/l	BDL	APHA, 5520 B, 22 <sup>nd</sup> Edition 2012	5.0





9	Sulphide	mg/L	BDL	APHA,4500 S2 F,4-187,23 <sup>rd</sup> Edition :2017	0.5
10	Total Kjeldahl nitrogen	mg/L	0.30	APHA,4500 N org B,4-139 to 4- 140 ,23 <sup>rd</sup> Edition :2017	40
11	Hexa valent Chromium	mg/L	BDL	APHA,3500;Cr B, 3-71-3-73,23 <sup>rd</sup> Edition (Colorimetric method):2017	0.1
12	Total Chromium	mg/L	BDL	APHA.3111-B,3-20 to 3-21.23 <sup>rd</sup> Edition:2017	2.0
13	Copper	mg/L	BDL	APHA.3111-B,3-20 to 3-21,23 <sup>rd</sup> Edition:2017	1.0
14	Nickel	mg/L	BDL	APHA,3111-B,3-20 to 3-21,23 <sup>rd</sup> Edition:2017	1.0
15	Lead	mg/L	BDL	APHA,3111-B,3-20 to 3-21,23 <sup>rd</sup> Edition:2017	0,1
16	Zinc	mg/L	0.22	APHA,3111-B,3-20 to 3-21,23 <sup>rd</sup> Edition:2017	5.0
17	Mercury	mg/L	BDL	APHA,3111-B,3-25to 3-27,23 <sup>rd</sup> Edition:2017	0.01
18	Vanadium	mg/L	BDL	APHA,3500-V,23 <sup>rd</sup> Edition:2017	0.2





# KERALA STATE POLLUTION CONTROL BOARD DISTRICT OFFICE (ERNAKULAM -II), PERUMBAVOOR

PMC 20/733 Govt. Hospital- KSRTC Road. Near Kallunkai Auditorium, Perumbayoor-683 542

Telephone 0484-2593747

E-mail pebdo2ekm@gmail.com Website: www.keralapeb.nic.in

Date: 03.08.2022

PCB/PBR/LAB/1/2013

# ANALYSIS REPORT

Source

: SYNTHITE KOLENCHERY

Sample Point : R O OUTLET

D.O.S

: 27.07.2022

D.O. Rd

: 29.07.2022

Collected by

: NAMP-1

Sample ID

: PCB-149

St.No.	Parameters	Unit	Value	Test Method	KSPCB Limit
1	рН		7.30	APHA, 4500 H B 22nd Edition 2012	6.5-9.0
2	BOD	mg/l	26	APHA, 5210 B, 22 <sup>n3</sup> Edition 2012	30
3	COD	mg/l	72	APHA, 5220 B, 22nd Edition 2012	250
4	OIL &GREASE	mg/l	BDL	APHA, 5520 B, 22 <sup>nd</sup> Edition 2012	10
5	SS	mg/l	BDL.	APHA, 2540-D, 22 <sup>60</sup> Edition 2012	100



SARANYA DAS.K



# KERALA STATE POLLUTION CONTROL BOARD DISTRICT OFFICE (ERNAKULAM-II), PERUMBAVOOR

PMC 20/733 Govt. Hospital- KSRTC Road, Near Kallunkal Auditorium, Perumbayoor-683 542

Telephone: 0484-2593747

E-mail pebdožekm/a/gmail.com Website: www.keralapeb.nic.in

Date: 03.08.2022

PCB/PBR/LAB/1/2013

# ANALYSIS REPORT

Source

: PLANT LIPIDS KOLENCHERY

Sample Point : R.O OUTLET

D.O.S

: 27.07.2022

D.O. Rd

: 29.07.2022

Collected by

: NAMP-I

Sample ID

: PCB-008

SLNo.	Parameters	Unit	Value	Test Method	KSPCB Limit
1	рН		7.41	APHA, 4500 H <sup>+</sup> B 22 <sup>nd</sup> Edition 2012.	6.5 - 9.0
2	BOD	mg/l	17	APHA, 5210 B, 22 <sup>nd</sup> Edition 2012.	30
3	COD	mg/l	16	APHA, 5220 B. 22 <sup>nd</sup> Edition 2012	250
4	OIL &GREASE	mg/l	BDL	APHA, 5520 B, 22 <sup>nd</sup> Edition 2012	10
5	SS	mg/l	BDL	APHA, 2540-D, 22 <sup>rd</sup> Edition 2012	100







SARANYA DAS.K



### KERALA STATE POLLUTION CONTROL BOARD DISTRICT OFFICE (ERNAKULAM -II), PERUMBAVOOR

PMC 20/733 Govt. Hospital- KSRTC Road, Near Kallunkal Auditorium, Perumbayoor-683 542

Telephone 0484-2593747

PCB/PBR/LAB/1/2013

E-mail pchdo2ekm@gmail.com Website: www.keralapcb.nic.in

Date: 03.08.2022

# ANALYSIS REPORT

Source

: HERBAL ISOLATES, PANCODE

Sample Point : ETP OUTLET

D.O.S

: 27.07.2022

D.O. Rd

: 29.07.2022

Collected by : NAMP-1

Sample ID

: PCB-159

SI.No.	Parameters	Unit	Value	Test Method	KSPCB Limit
1	pH		6.99	APHA, 4500 H° B 22 <sup>ref</sup> Edition 2012	5.5 -9.0
2	BOD	mg/l	21	APHA, 5210 B, 22 <sup>nd</sup> Edition 2012.	30
3	COD	mg/l	100	APHA, 5220 B, 22 <sup>nd</sup> Edition 2012	250
4	OIL &GREASE	mg/l	BDL	APHA, 5520 B, 22 <sup>nd</sup> Edition 2012	10
5	SS	mg/l	BDL	APHA, 2540-D, 22 <sup>nt</sup> Edition 2012	100
6	TDS	mg/l	111.6	APHA,2540-C, 22ndEdition 2012	*









# KERALA STATE POLLUTION CONTROL BOARD

DISTRICT OFFICE (ERNAKULAM -II), PERUMBAVOOR

PMC 20/733 Govt Hospital- KSRTC Road, Near Kallunkal Auditorium, Perumbariocr-683 542

Telephone: 0484-2593747

PCB/PBR/LAB/1/2013

E-mail: pchdo2ekm@gmail.com Website: www.keralapch.nic.iii

Date: 21.05.2022

# ANALYSIS REPORT

Source

: KITEX GARMENTS Ltd (PROCESSING UNIT)

Sample Point

: ETP OUTLET

D.0.S

: 06.05.2022

D.O. Rd

: 06.05.2022

Collected by

: NAMP-I

Sample ID

: PCB-121

Sl.No.	Parameters	Unit	Value	Test Method	KSPCB Limit
1	pH		7.51	APHA, 4500 H B 22 <sup>nd</sup> Edition 2012.	6.0-8.5
2	ВОО	mg/l	28	APHA, 5210 B. 22 <sup>nd</sup> Edition 2012.	30
3	COD	mg/l	96	APHA,5220 B 22 <sup>nd</sup> Edition 2012	250
4	SS	mg/l	BDL.	APHA 2540 D, 22 <sup>nd</sup> Edition 2012	100
s	OIL &GREASE	mg/l	BDL	APHA, 5520 B. 22 <sup>nd</sup> Edition 2012	10
6	TDS	mg/l	1791.6	APHA, 2540 C, 22 <sup>nd</sup> Edition 2012	2100
7	SULPHIDES	mg/l	BDL	APHA 4500-S <sup>2</sup> D. 22 <sup>nd</sup> Edition 2012	2.0
8	AMMONIACAL NITROGEN	mg/l	BDL.	APHA 4500 NH3 -F, 22 <sup>nd</sup> Edition 2012	50
9.	COLOUR	Hazen	30	APHA,2120-C,2120 B,23 <sup>rd</sup> Ed,,2017	200
10	PHENOLIC COMPOUNDS	mg/l	BDL	APHA.5530-C.23 <sup>nl</sup> Ed.,2017	Ī

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Kerula State Rollution Control Board Dist. Office (Ernakulam-II)

2 1 MAY 2022



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SARANYA DAS.K



### KERALA STATE POLLUTION CONTROL BOARD DISTRICT OFFICE (ERNAKULAM -II), PERUMBAYOOR

PMC 20/733 Govt. Hospital- KSRTC Road. Near Kallunkal Auditorium. Perumbayoor-683 542.

Telephone . 0484-2593747

E-mail pcbdo2ekm/a/gmail.com Website: www.keralapcb.nic.in

Date: 26.08.2022

PCB/PBR/LAB/1/2013

# ANALYSIS REPORT

Source

:MOSC MEDICAL MISSION HOSPITAL, KOLENCHERY

Sample Point : ETP OUTLET

D.O.S

: 20.08.2022

D.O. Rd

: 22.08.2022

Collected by

:: AE3

Sample 1D

: PCB-4

SLNo.	Parameters	Unit	Value	Test Method	KSPCB Limit
1	pH		7.58	APHA, 4500 H B 22 td Edition 2012.	6.5-9.0
2	BOD	mg/l	17	APHA, 5210 B, 22 <sup>nd</sup> Edition 2012.	30
3	COD	mg/1	44	APHA, 5220 B, 22 <sup>nd</sup> Edition 2012	250
4	OIL &GREASE	mg/I	BDL	APHA, 5520 B, 22 <sup>nd</sup> Edition 2012	10
5	SS	mg/l	3.2	APHA, 2540-D; 22 <sup>nd</sup> Edition 2012	100

SARANYA DASK

ASSISTANT SCIENTIST

3449/22

SARANYA DAS. K. Assistant Scientist



### KERALA STATE POLLUTION CONTROL BOARD

### DISTRICT OFFICE (ERNAKULAM -II), PERUMBAYOOR

PMC 20/733 Govt. Hospital- KSRTC Road. Near Kallunkai Audiforium, Perumbayoor 583 542.

Telephone: 6484-2593747

PCB/PBR/LAB/1/2013

E-mail: pcbdo2ekm/a/gmail com Website: www.keralapcb.nic.in

Date: 21.05.2022

# ANALYSIS REPORT

Source

: AVI NATURALS, KAIPOORIKKARA

Sample Point: R.O. OUTLET

D.O.S

: 06.05,2022

D.O. Rd

: 06.05.2022

Collected by : NAMP-I

Sample 1D

: PCB-105

Sl.No.	Parameters	Unit	Value	Test Method	KSPCB Limit
1	pH		7.32	APHA, 4500 H* B 22 ** Edition 2012.	6.5 - 8.5
2	BOD	mg/l	19	APHA, 5210 B, 22 <sup>nd</sup> Edition 2012.	30
3	SS	mg/I	8.8	APHA, 2540-D, 22 <sup>nd</sup> Edition 2012	20
4	OIL & GREASE	mg/l	BDL.	APHA, 5520 B, 22 <sup>nd</sup> Edition 2012	10







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### KERALA STATE POLLUTION CONTROL BOARD DISTRICT OFFICE (ERNAKULAM -II), PERUMBAVOOR

PMC 20/733 Govt. Hospitaly KSRTC Road, Near Kallunkal Auditorium, Perumbayoor-683 542.

Telephone: 0484-2593747

E-mail pebdo2ekmw.gmail.com Website: www.keralapcb.nic.in

PCB/PBR/LAB/1/2013

Date: 20.04.2022

# ANALYSIS REPORT

Source

: HOCL AMBALAMUGHAL

Sample Point: TREATED EFFLUENT FINAL PIT

D.O.S

: 05.04.2022

D.O. Rd

: 06.04.2022

Collected by 1 NAMP-I

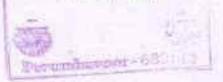
Sample ID

: PCB-8

SI.No.	Parameters	Unit	Value	Test Method	KSPCB Limit
1	pH		7,49	APHA, 4500 H <sup>+</sup> B 22 <sup>nd</sup> Edition 2012.	6.5-8.5
2	BOD	mg/l	16	APHA, 5210 B, 22 <sup>nd</sup> Edition 2012.	30
3	COD	mg/l	96	APHA, 5220 B, 22 <sup>nd</sup> Edition 2012	250
4	OIL &GREASE	mg/l	BDL	APHA, 5520 B, 22 <sup>nd</sup> Edition 2012	10
5	SS	mg/l	64	APHA, 2540-D, 22 <sup>nd</sup> Edition 2012	100
6	PHENOLIC COMPOUNDS	mg/l	BDL	APHA,5530C. 22 <sup>nd</sup> Edition 2012	3

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SARANYA DAS.K



# KERALA STATE POLLUTION CONTROL BOARD DISTRICT OFFICE (ERNAKULAM-II), PERUMBAYOOR

PMC 20/733 Govt. Hospital- KSRTC Road, Near Kallunkal Auditorium. Perumbayoor-683 542

Telephone 0484-2593747

E-mail pcbdo2ekm/a/gmail.com Website: www.keralapcb.nic.in

Date: 20.04.2022

PCB/PBR/LAB/1/2013

# ANALYSIS REPORT

Source : FACT - CD AMBALAMEDU

Sample Point: FINAL DISCHARGE OUTLET

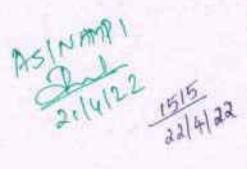
D.O.S : 05.04.2022

D.O. Rd : 06.04.2022

Collected by : NAMP-I

Sample ID : PCB-78

Sl.No.	Parameters	Unit	Value	Test Method	KSPCB Limit
	pН		7.50	APHA, 4500 H° B 22 <sup>nd</sup> Edition 2012.	5.5-9.0
2	BOD	mg/l	3	APHA, 5210 B, 22 <sup>nd</sup> Edition 2012.	20
3	COD	mg/I	8	APHA, 5220 B, 22 <sup>nd</sup> Edition 2012	250
4	OIL &GREASE	mg/l	BDL.	APHA, 5520 B, 22 <sup>nd</sup> Edition 2012	5
5	SS	mg/l	BDL	APHA, 2540-D, 22 <sup>nd</sup> Edition 2012	100
6	PHOSPHATES	mg/l	0.34	APHA-4500 P-E 22 <sup>02</sup> Edition 2012	30
7	AMMONIACAL NITROGEN	mg/I	3,36	APHA 4500-NH3-F, 22 <sup>nd</sup> Edition 2012	75







SARANYA DAS K

1			442	CAVVAVI RIVER	11 11 11 11	
, in	Station Name			PETRO		
Jan 1	Type of Water Lordy			No. 15		
1				JSA2	THE DAYABL	
Agency		KERA	CA STATE PO	KERALA STATE POLLUTION CONTROL BOARD	I KOT BOAR	
0.0	Date and time of		30-08-2022	30-08-2022	30-08-2022	17-48-2022
4	Theterministry	o mits	Kankol	Karikuzhithodu	Thatfarakadovu Riddge	Kurtyol palkol
N'IS		CARRO	2.8	28	30	97
-	Temperature, 0C.		0.7	6.2	9.9	9
М	Dissolved Oxygen, mg/l		204	8.5	5,74	6.5
Light.	3 pH	1	20.29	2 AZ	111.4	66.7
4	Conductivity, umhos/em	hos/em	39.7	CONT.	75	0.67
u;	S ROD, mg/l		2.2	7 700	1.7	0.2
10	6 Turbidity, NTU		90	orn a	14	00
6	7 Total Alkalinity, mgd	ngd	*	0	0,	1
3	e Chlarida med		11	12	113	0.00
0 :	Chiminates might	l) men	0.032	BDL	0.0623	70.0
	y Ammoniacai-it, ingr	Ol mad	30	9	18	
티	10 Hardness as Cat. O. mg/	U.S. 11127	9	7	90	9
Ξ		13, mg/l		2	07	77
13	Magnesium as CaCO3, mg/l	1CO3, mg/l	ino	ROL	BDJ.	RDL
-	13 Sulphate, mg/l		DOC	BDL	Just.	BDL
Ä	14 Phosphate, mg/l		Dir	Bul	BDL	BDL
-	15 Fluoride, lug/l		DODL	120	160	80
-	16 Total Coliform, MPN/100 ml	VIPN/100 mil	000	99	98	40



POLLUTED RIVER STRETCH WATER QUALITY MONITORING PROGRAMME AUGUST 2022

Station Name			PERUMBA RIVER	α.	
Type of Water body			RIVER		
Commission by			JSA2		
Agency	×	ERALA STATE PO	ALLUTION CONTR	KERALA STATE POLLUTION CONTROL BOARD KANNUR	33
Date of sample taken		01-08-2022	01-08-2022	17-08-2022	01-08-2022
Det	Determînancs	KACHERIKADVU	MATAHAMAGA). AM	CHANDAPURA	KANDAKALI
Tempera		29	2.9	28	30
2 Dissolved Oxygen, mgl	cygen, mg/l	8.9	6.8	7,47	6,2
3nH .		6.37	6.31	6.2	7.2
4 Conductivity, 1smbo	v. tsmhos/em	46.4	41.8	64.2	186.2
5 ROD, mg/l		9.0	0.62	2.2	1.2
6 Turbidity, NTU	ULL	0.3	8.0	6.1	7
7 Total Alkalinity, mg/l	nity, mg/l	æ	00	10	14
8 Chloride, me/l	e/l	6	16	13	20
9 Ammoniacal-N, mg/l	J.N. mg/l	0,003	0.024	0.0694	0.012
10 Hardness as CaCO3, mg/l	CaCO3, mg/l	9	9	11	77
11 Calcium as CaCO3, mg/l	CaCO3, mg/l	3	10	10	ol
12 Magnesium as CaC	as CaCO3, mg/l	3	1		9
13 Sulphate, med	مرا	BDL	BPI.	7.231	BDL
14 Phosphate, mg/l	mg/l	RIJC	BDJ.	0.0658	BDL
15 Fluoride med	ما	RDE	BDL	BDI.	BDL
16 Total Colifo	16 Total Coliform, MPN/100 ml	99	180	200	220
17 Bacal Colifo	17 Facel Coliform, MPN/100 int	40	09	30	140

Assistant Schentist Karata State Politica Control Board Chica, Kannar-670002

Station Name	ine		R	RAMAPURAM RIVER		
W lo ed	Type of Water body			RIVER		
Completed by	l by			JSA2		
Agency		~	CERALA STATE PO	KERALA STATE POLLUTION CONTROL BOARD KANNUR	BOARD KANNUR	
Date of sample	sample		23-08-2022	23-08-2022	17-08-2022	30-48-2022
SLNo		Determinants	KAPUGAL	ATHIYADAM	RAMAPURAM	VAVALAPRA
	Temper	Temperature, 0C	2.8	30	28	30
2	Dissolve	2 Dissolved Oxygen, mg/l	6.1	3.9	4.87	4.6
3	3 pH		6.1	5.62	9	6.35
4	Conduc	4 Conductivity, ambos/cm	51.5	57.9	219	716
S	5 BOD, mg/l	/Si		2.9	2.2	2.0
9	6 Furbidity, NTU	4y, NEU	0.3	0.8	0.4	1.5
2	Total Al	7 Fotal Alkalinity, mg/l	12 .	16	24	- 18
00	8 Chloride, mg/l	e, mg/l	11	6	72.	122
6	Animon	9 Ammoniacal-N, mg/l	BDL	BDL	0.0316	0.083
10	Hardnes	10 Hardness as CaCO3, mg/l	12	10	22	28
=	Calcium	11 Calcium as CaCO3, mg/l	10	00	15	2
2	Magnesi	12 Magnesium as CaCO3, mg/l	. 2	2	-	92
13	13 Sulphate, mg/l	e, mg/l	ROL	BDL	11.23	16.026
14	14 Phosphate, mg/l	rte, mg/l	BDL	TOB	BDL	0.632
15	15 Fluoride, mg/l	s, mg/l	BDL.	RDL	0.3	9.0
- 1	Total Co	16 Total Coliform, MPN/100 mi	96	180	120	320
* I7	Feen Co	I/ Fecal Coliform, MPN/100 ml	KA	4.90	4.0	



			KUPPA	KUPPAM RIVER			
Station Name			~	RIVER			
Type of Water Bouy	ter boos	-		2007			
Completed by	lay.			JSAC			
Agency		KERALA STA	TE POLLUTIO	N CONTROL	KERALA STATE POLLUTION CONTROL BOARD KANNUR	NUK	
Date of sample taken	nple taken	30-08-2022	30-08-2022	17-08-2022	30-08-2022	30-08-2022	30-08-2022
		VELLICHAN	MANGALAS	KUPPAM	VARIANKOT TAM	VELLAVO	KUTTIYERIKADAVU
SLNo	Determinants	Deep	30	2.8	38	30	62
	1 Temperature, 0C	3	200	613	8.8	5.6	6.1
2	2 Dissolved Oxygen, mg/l	5.7	0.0	6.32	62	6.18	90'9
447	3 pH	0.81	04-10	115.6	117.9	118.3	106.3
	4 Conductivity, jamhos/em	636	117.9	44.02	1.6	1	0.8
0,	S BOD, mg/l	1.2	77	0.4	2.3	1.2	1.1
	6 Turbidity, NTU	1.2	1.2	***	25	28	20
1	7 Total Alkalinity, mg/l	28	32	OI :	07	34	15
-	S Chloride, med	52	21	77	0.000	0,000	0.09
	9 Ammoniacal-N. figs/f	0.62	0.05	0	307.0	32	18
-	10 Hordness as CoCO3, mg/l	36	20	18		12	14
1	11 Coloing of CaCO3, Hg/l	28	91	12	19	1.4	7
	12 Magazastum as CaCO3, H9/1	8	4	9	IO	the state of	RDI.
1	A pringuestion of the control	BDL	BDL	2,024	BINC	DUL	popi
	As Sulphate, mg/	BDL	BDL	0.0126	BINE	RUL	FOR
	IA Filospiale, ing.	BDIL	BDL	BDL	BDL	RUL	091
	In the state of th	350	280	200	300	760	100
	16 Total Comorm, July 18 19	076	140	98	180	150	net.

Awaistant Scientist
Keras State Polution Control Board
Diaptet Office, Kansur-570002



# 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   151	2022-23	Date	16.08.2022	Format No.PCB/CL/CH/F-7
Ref. No.	PCB/EKM/DO- 15.06.2022		Date of	Collection	14.06.2022
Received From	D O Ernakulam		Date of	Receipt	15.06.2022
No. of Sample	4 2		Period	of Analysis	15.06.2022 - 23.08.2022
Source	Elamkulam Con Plant	Scienti	st-in-charge	Dr. Josemin	
Sample Condition	Fit for analysis	Sample Type		Water samples	
Sample collected by	EE DO Ernakul	am	Sample volume & container type		2L Plastic Can
Sample preservation	As per APHA/IS	S:3025 (Part-1)	Type of Test		Chemical

SAMPLE ID: ELM Treated water outlet

SL No	Parameters	Unit	Value	Test Method	Detection Limit
1	pH		6.7	APHA, 4500-H+B,23rd Ed., 2017	3 to 12
2	Total Dissolved Solids	mg/L	364.0	APHA, 2540-D, 23 <sup>rd</sup> Ed., 2017	10 mg/L
3	Ammoniacal Nitrogen	mg/L	0.1	APHA-4500 NH3-C, 23 <sup>rd</sup> Ed., 2017	0.02 mg/L
4	BOD	mg/L	7.0	IS 3025 Part( 44): 1993	2 to 500 mg/L
5	COD	mg/L	32.0	APHA, 5220-B, 23rd Ed., 2017	4 to 1000 mg/L
6	Oil & Grease	mg/L	BDL	APHA, 5520-B, 23rd Ed., 2017	10 mg/L
7	Total Nitrogen	mg/L	1.21	APHA, 4500-N-Org B, 23rd Ed., 2017	0.2 mg/L

-- End of Report--

Checked By

REMYA JOSE Assistant Scientist

Danen Authorised By Dr. JOSEMIN Envolvmental Scienti-

