

Format - A for Submission of Annual Inventory of Hazardous Waste Management by Occupiers

Name of SPCB/PCC: KERALA STATE POLLUTION CONTROL BOARD

Year: 2016-17

Sl No	Name of the District	No of HW generating industry	Quantity of hazardous waste as per authorisation (MTA)	Quantity of hazardous waste generated as per Annual Return (MTA)	Quantity disposed in Captive SLF (MT)	Quantity disposed through Common SLF at TSDF (MT)	Quantity disposed by Captive Incinerator (MT)	Quantity disposed through Common Incinerator at TSDF (MT)	Quantity processed in cement kiln (MT)	Quantity utilized under Rule 9 (MT)	Quantity sent to Recyclers of Schedule -IV Hazardous Wastes (MT)	Captive Utilization (MT)	Quantity of HW stored at Occupier premises at the end of the year (MT)
1	Thiruvananthapuram	33	2537	1876.36	NIL	1713.5	NIL	NIL	NIL	NIL	162.86	NIL	NIL
2	Kollam	14	38.41	38.41	NIL	NIL	NIL	NIL	NIL	NIL	9.25	NIL	NIL
3	Pathanamthitta	14	37.124	37.124	NIL	NIL	NIL	NIL	NIL	NIL	37.124	NIL	NIL
4	Alappuzha	8	81.74	81.74	NIL	7.76	NIL	NIL	NIL	NIL	73.96	NIL	NIL
5	Kottayam	37	360.91	360.91	NIL	360.91	NIL	NIL	NIL	NIL	349.13	NIL	NIL
6	Idukki	37	86.64	86.64	NIL	3.2	NIL	NIL	NIL	NIL	83.44	NIL	NIL
7	Do-1, Ernakulam	98	NIL	NIL	NIL	34.415	NIL	NIL	NIL	NIL	175.93	NIL	NIL
	Do-2, Ernakulam	159	6500	5000	NIL	5000	NIL	NIL	NIL	NIL	NIL	NIL	NIL
	ESC, Ernakulam	24	1558.87	1415.19	554.82	860.37	NIL	NIL	NIL	NIL	NIL	NIL	NIL
8	Thrissur	67	8601.98	8601.98	NIL	7190.51	NIL	NIL	NIL	NIL	1411.47	NIL	NIL
9	Malappuram	48	186.91	NIL	NIL	NIL	NIL	NIL	NIL	NIL	186.91	NIL	NIL
10	Palakkad	103	1006.5014	NIL	NIL	705.0804	NIL	NIL	NIL	NIL	301.565	NIL	NIL
11	Kozhikode	78	482.643	NIL	NIL	NIL	NIL	NIL	NIL	NIL	482.643	NIL	NIL
12	Kannur	136	557	557	NIL	167.089	NIL	NIL	NIL	NIL	333.468	NIL	252
13	Wayanad	20	0.08546	0.08546	NIL	NIL	NIL	NIL	NIL	NIL	0.08546	NIL	NIL
14	Kasargode	20	272.67	24.507	NIL	0.525	NIL	NIL	NIL	NIL	19.888	NIL	1.002
	TOTAL	896	22308.4839	18079.94646	554.82	16043.359	NIL	NIL	NIL	NIL	3627.72346	NIL	253.002

Format - B for Submission of Annual Inventory on Recycling / Utilization / Co-processing of Hazardous Waste

Name of SPCB/PCC: KERALA STATE POLLUTION CONTROL BOARD

Year: 2016-17

Sl No	Type of Recycling Facilities	No of facilities authorized for recycling / utilization / Co-processing of HW	Total Authorized Capacity (MTA)	Quantity Recycled/ Utilized/ Co-processed (MT)
A	Commonly Recyclable HW			
1	Brass Dross	NIL	NIL	NIL
2	Zinc Bearing Wastes	NIL	NIL	NIL
3	Copper Bearing Wastes	NIL	NIL	NIL
4	Spent catalyst containing nickel, cadmium, zinc, copper, arsenic, vanadium and cobalt	NIL	NIL	NIL
5	Lead bearing waste including battery waste	4	7505.2125	AR not received
6	E-waste	NIL	NIL	NIL
7	Paint and ink sludge/ residues	NIL	NIL	NIL
8			total capacity=32808 (2 units not working, so 11760 MTA not functional)	
	Used oil	6		6359.24
9			total capacity=22440 (1 unit not working so 4800 MTA not functional)	
10	Waste oil	4		
	Spent carbon	NIL	NIL	NIL
	(Add new rows for other types of wastes)	NIL	NIL	NIL
B	Utilization of HW under Rule 9			
1	Recovery of solvents from spent solvents	NIL	NIL	NIL

2	Utilization of APCD Dust/ Residue generated from LD Furnace /EAF/ Blast Furnace for producing cold briquettes for use in Blast Furnace for production of Pig Iron	NIL	NIL	NIL
3	Utilization of Spent Catalyst - to recover - Platinum, Iridium, Osmium, Palladium, Rhodium, Ruthium, Rhenium, Gold & Silver	NIL	NIL	NIL
4	Utilization of Spent H2SO4 generated from Pickling operations for manufacturing Ferrous Sulphate	NIL	NIL	NIL
5	Utilization of Spent Acid containing Molybdenum generated from filament industries for producing Molybdenum Trioxide by heating process	NIL	NIL	NIL
6	Utilization of Spent HCl generated from Steel rolling mills for producing Ferric Chloride	NIL	NIL	NIL
7	Utilization of Used Anode Butt to produce Carbon pellets and High Energy (HE) Coke for use in Steel furnaces / foundries	NIL	NIL	NIL
8	Utilization of Used Anode Butt to produce Carbon Blended Coke / Electrode carbon paste/ Carburiser for use in steel or ferroalloy furnaces	NIL	NIL	NIL
9	Utilization of pre-processed Used Anode Butt to produce Green Anodes through Anode - baking process for use in Aluminium Smelters	NIL	NIL	NIL
10	Utilization of pre-processed Used Anode Butt generated to produce Carbon Electrode Paste	NIL	NIL	NIL
11	Utilization of Coal Tar/ Tarry Residue generated from coal gasifier for energy recovery in sodium silicate industry	NIL	NIL	NIL
12	De-contamination of contaminated drums/ containers/ barrels	NIL	NIL	NIL
13	Utilization of process sludge and primary ETP sludge generated from Pulp & Paper Industries for producing Paper Board/ Mill Board/ Card Board	NIL	NIL	NIL
14	Captive Utilization of Aluminium Dross generated from refining and casting house of Aluminium smelter units to recover Aluminium metal	NIL	NIL	NIL
15	Utilization of Aluminium Dross generated from refining and casting house of Aluminium smelter units to recover Aluminium metal	NIL	NIL	NIL

16	Utilization of Oil based iron sludge of Ball & Roller bearings for producing Ferrous Sulphate	NIL	NIL	NIL
17	Utilization of Mercury Waste generated from various industry for recovering Mercury	NIL	NIL	NIL
18	Utilization of Spent H2SO4 generated from Dye and Dye intermediates to produce gypsum suitable for use in cement plants (Add new rows for other types of wastes)	NIL	NIL	NIL
C	Co-Processing in Cement Plants	NIL	NIL	NIL

Sl. No.	Recycled	Capacity (MT/AY)	Annual Return Not Substantiated
1	Used Oil Waste Oil	Used Oil 1500 KLA Waste Oil 5000 KLA	Annual Return Not Substantiated (Limit not franchising)
2	Used Oil Waste Oil	Used Oil 1000 KLA Waste Oil 5000 KLA	Annual Return Not Substantiated
3	Used Oil	Used Oil (multi-tenor oil) 1200 KLA	Annual Return Not Substantiated
4	Used Lead & Lead Ingot	2.38 t/day of used lead and battery for production of 1.63 t/day of lead ingots and 12.5 t/day of calcium sulphate	Annual Return Not Substantiated
5	Used Oil	Used Oil 4000 t/d	Annual Return Not Substantiated

**Format-C for Submission of the List of Authorized Recyclers/Utilizers/ Co-processors of
Hazardous Waste**

Name of SPCB/PCC: KERALA STATE POLLUTION CONTROL BOARD

Year:2016-17

SI. No	Name and Address of the Facility	Type of Hazardous Waste Recycled	Authorized Recycling/ Utilization / Co-Processing Capacity(MTA)	Quantity Recycled/Utilized/Co-processed (MT)
1	Southern Refineries Ltd, Kauzhinjanvila, Parassala P.O, Thiruvananthapuram – 695 502 Kerala Ph: 0471- 2203073	Used Oil/ Waste Oil	Used Oil 13500 KLA Waste Oil 6000 KLA	Annual Return Not Submitted (Unit not functioning)
2	Cee Jee Lubricants VI/592, Industrial Development Area, Edayar, Binanipuram P.O Aluva- 683 502, Kerala Ph: 0484-2558486	Used Oil/ Waste Oil	Used Oil 3000 KLA Waste Oil 6000 KLA	Annual Return Not Submitted
3	Excel Petrochemical Koonamthai Changampuzha Nagar P.O, Kochi Kerala-682 033 Ph: 0484-2540079	Used Oil	Used Oil (transformer oil) 1200 KLA	Annual Return Not Submitted
4	Best Smelters VIII/1208, NIDA Kanjikode, Palakkad- 678 621 0491-2566040, 89433445332 0491- 2566040	Used Lead & battery Lead ingots	2.18 t/day of used lead and battery for production of 1.63 t/day of lead ingots and 12.5 kg/day of calcium sulphate	Annual Return Not Submitted
5	K.J Lubes SIDCO Industrial Park	Used Oil	Used Oil 4000 l/d	Annual Return Not Submitted

	Athani, Thrissur- 680 581 Ph: 9744483574			(not operated during 2016-17)
6	T.S. Lead Refineries, Plot No. 103, KINFRA Small Industries Park, Seethamgoli Kasargod Ph: 944762000	Scrap Battery	Scrap Battery (for producing refined lead 4t/d)	Annual Return Not Submitted
7	Peejay Enterprises, Kutoor P.O, Thiruvalla, Kerala- 689 106 Ph: 0469-261 4625 9447018625	Lead acid batteries Lead Scrap	Used lead acid batteries and lead scrap 3000 t/annum	Annual Return Not Submitted
8	APJ Refineries Pvt. Ltd Pudussery Central Village, New Industrial, Development Area, Kanjikode- 678 621, Palakkad Ph: 0491-2566595, 9995821648	Used Oil Waste Oil	Used Oil 40 t/d Waste Oil 24 t/d	Annual Return Not Submitted
9	Aaron International Plot No. 10, Industrial Development Plot, Parakulam, Anakkara P.O Palakkad-679 551 Ph: 9447871237	Cu & Zn materials	Cu & Zn materials 8 t/d for producing Cu cathode 1 t/d Zinc sulphate 4 t/d	Annual Return Not Submitted (Unit not functioning)
10	Petroliv Petroleum (Angels Group), Erikulam P.O, Madikkai, Nileshtar, Kasargod Ph: 9995000704, 9400637673	Used Oil Waste Oil	Used Oil : 3600 kl/annum Waste Oil : 3600 kl/annum	Annual Return Not Submitted
11	Perfect Alloys IDPO-16, Mundencavu Chengannur, Alappuzha- 689	Lead	Lead 1650 t/Annum	Annual Return Not Submitted

Format - D for Submission of Annual Returns of TSDF Operators

Name of SPCB/PCC: KERALA STATE POLLUTION CONTROL BOARD

Year: 2016-17

Sl No	Name and Address of the TSDF	Quantity in Stock at the beginning of the year (MT)		Quantity of Hazardous Waste received (MT)			Quantity of Hazardous Waste disposed (MT)			Quantity Pre-Processed for utilization (MT)	Quantity in Stock at the end of the year (MT)	
		Lanfillable	Incinerable	For Direct landfill	For landfill after treatment	For incineration	Quantity landfilled directly	Quantity landfilled after treatment	Quantity incinerated		Landfillable	Incinerable
1	Kerala Enviro Infrastructure Limited, TSDF Project, Inside FACT-CD Campus, Ambalamedu, Kochi	114 MT	NIL	29078 T	8219 T	NIL	28657 T	8164 T	NIL	NIL	590 MT	NIL