

GOA STATE POLLUTION CONTROL BOARD गोंय राज्य प्रदूषण नियंत्रण मंडळ

(An ISO 9001-2015, ISO 14001:2015. OHSAS 18001:2007 Certified Board)

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Date : 25/09/2020

To,
The Additional Director & Head,
Waste Management- II Division,
Central Pollution Control Board,
Parivesh Bhawan, East Arjun Nagar,
Delhi 110032.

Sub: Submission of annual inventory on hazardous and other waste generation and its management for the year 2019-20.

Ref : 1. Letter No. F. No. B-29016/G-87/20/WM-II Div/DK/1170 dated 15/09/2020

Sir.

With reference to subject cited above, I am enclosing herewith the Annual Inventory on hazardous waste generation in the State of Goa for the year 2019-2020. As the data being voluminous, the same is send through e-mail for your information.

Yours Faithfully,


(Dr. Shamila Monteiro)
Member Secretary

For Goa State Pollution Control Board.

Copy to,

1. Office file
2. Guard file

ANNEXURE-I

Submission of Annual Inventory on Hazardous Waste and Other Management

Name of SPCB/PCC:GOA STATE POLLUTION CONTROL BOARD

YEAR: 2019-2020

A1 Details on Hazardous Waste Generation

Sr. No	Name of the District	Total Number of HW Generating Industry	Number of Units possessing authorisation	Number of Units exempted from obtaining Authorisation	Number of HW Units submitted annual returns	Authorized Quantity of Hazardous Waste (Metric Tonne)				Total Quantity	*Quantity of Hazardous Waste generated as per Annual Return within the State/UT (Metric Tonne)				Total Quantity	Details on Import and Export of Hazardous Waste			
						Landfillable	Incinerable	Recyclable	Utilizable		Landfillable	Incinerable	Recyclable	Utilizable		Quantity of HW imported during the year (Metric Tonne)	Type of HW	Quantity of HW exported during the year (Metric Tonne)	Type of HW
1	North Goa	1014	1014	NIL	386	531.204	25801.5212	3869.6725	20381.46	50583.8577	71.08	11485.94	438.183	10834.68	22829.883	NIL	NA	NIL	NA
2	South Goa	614	614	NIL	296	9638.995	2818.022	4009.9328	2153.732	18620.6818	5.038	529.049	3160.79	2044.659	5739.536	NIL	NA	NIL	NA
Total		1628	1628	NIL	682	10170.199	28619.5432	7879.6053	22535.192	69204.5395	76.118	12014.989	3598.973	12879.339	28569.419	NIL	NIL	NIL	NIL

Note: It may be noted that out of the total authorized units, approx. 68 % of the units are only generating HW under category 5.1 (i.e. Used spent oil from D.G.sets, etc) and approx. 10% of the units are only generating HW under category 33.1 (i.e. discarded drums/empty containers from small fabrication units etc.)

Format-A2 : Details on Inter-state Movement of Hazardous Waste for recycling/utilisation/disposal

Sr. No.	Hazardous Waste	Hazardous Waste received from other State/UT		Hazardous Waste sent to other State/UT	
		Name of State/UT from which waste received	Quantity received (MT)	Name of State/UT where waste sent	Quantity sent (MT)
		14	15	16	17
1	For disposal at common secured landfill	NIL	NA	Karnataka	163.42
2	For disposal at common Incinerator	NIL	NA	Maharashtra	1161.83
3	For recycling by Schedule IV recyclers	NIL	NA	Kerela	264.42
				Karnataka	19.575
				Maharashtra	329.09
4	For utilization in co-processing (cement plants)	NIL	NA	Andhra Pradesh	5033.57
				Karnatak	6748.9
5	For utilization under Rule 9 (other than co-processing)	NIL	NA	Maharashtra	582.99
				Gujarat	154.8

A3 Details on Hazardous Waste Recycled and Utilized

S.No.	Name of the District	Recycling/Utilization of hazardous waste (generated within the State/UT)							Recycling/Utilization of hazardous waste (received from other State/UT)		
		Quantity of waste Recycled (listed under Schedule-IV Hazardous Wastes) (MT)		Quantity Utilized (MT)					Quantity of waste Recycled (listed under Schedule-IV Hazardous Wastes) (MT)	Quantity Utilized (MT)	
				Co-processing in Cement plant		Non-captive utilization based on CPCBs SOPs		Captive utilization of hazardous and other wastes for which SOP has not been prepared by CPCB			
		Generated within state	Imported	Generated within state	Imported	Generated within state	Imported		24	25	26
		18	19	20	21	22	23	24	25	26	27
1	North Goa	NIL	NIL	NIL	NIL	137.867	NIL	0	NIL	NIL	NIL
2	South Goa	3149.24	NIL	NIL	NIL	NIL	NIL	31	NIL	NIL	NIL
	Total	3149.24	NIL	NIL	NIL	137.867	NIL	31	NIL	NIL	NIL

A4- Details on Hazardous Waste Disposed

Sr. No.	Name of the District	Disposal of hazardous waste (generated within the State/UT)				Disposal of hazardous waste (received from other State/UT)	
		Quantity Disposed in Secured Landfill (MT)		Quantity Disposed through Incinerator (MT)		Quantity Disposed in common (MT)	
		Common	Captive	Common	Captive	SLF	Incinerator
		28	29	30	31	32	33
1	North Goa	NIL	NIL	NIL	10769	NIL	NIL
2	South Goa	NIL	NIL	NIL	NIL	NIL	NIL
Total		NIL	NIL	NIL	10769	NIL	NIL

* There are no CHWSTDFs in the State of Goa. The State is in the process of setting up of CHWSTDF at Pissurlem IDC

A5 Details on Hazardous Waste Stored at Occupier Premises

S.No.	Name of the District	Total Quantity of HW stored at Occupier premises at the beginning of the financial year i.e. 1 st April (MT)				Total Quantity of HW stored at Occupier premises at the end of financial year i.e. 31 st March (MT)			
		Landfillable	Incinerable	Recyclable	Utilizable	Landfillable	Incinerable	Recyclable	Utilizable
		34	35	36	37	38	39	40	41
1	North Goa	182.803	196.5075	3.732	674.145	87.702	96.4444	44.2709	578.6589
2	South Goa	2093.332	35.4082	21.941	72.076	6.998	19.53331	51.4521	54.6874
Total		2276.135	231.9157	25.673	746.221	94.7	115.97771	95.723	633.3463

A6 Details on management of Other Waste (Domestically generated and Imported)

Sr.No.	Name of the District	Number of units authorized for recycling/utilization of Other Waste (MT)		Authorized capacity (MT)		Quantity of other waste imported from other country (MT)	Quantity of other waste exported to other country (MT)	Quantity of other waste (Schedule III waste B and D) utilized/recycled during the year April-March (MT)		Other waste sent for disposal to Common TSDF (MT)	Quantity of HW generated during recycling/utilization of other waste (MT)	Quantity of other waste stored at Occupiers premises (MT)	
		Other Waste Schedule III-Part B	Other Waste Schedule III-Part D	Other Waste Schedule III-Part B	Other Waste Schedule III-Part D			Imported	Domestically generated			At the beginning of the financial year	At the end of financial year
		42	43	44	45			46	47			48	49
1	North Goa	NIL	11	NIL	165600	48139.74	NIL	48139.74	66331.959	NIL	NIL	NIL	NIL
2	South Goa	NIL	6	NIL	276360	56222.385	NIL	56222.385	30582.393	NIL	NIL	NIL	NIL
Total		NIL	17	NIL	441960	104362.125	NIL	104362.125	96914.352	NIL	NIL	NIL	NIL

A7-A Details of Domestic Hazardous Wastes* Resulting from Enforcement of Other Regulation

Sr. No.	Name of the District	Name and Address of deposition centres authorized for collection	Authorized capacity (MT)	Quantity of domestic HW received at deposition centres during the year April- March (MT)	Quantity of domestic HW sent to common TSDF during the year April- March (MT)	Quantity of hazardous waste stored at deposition centres (MT)	
						At the beginning of the financial year i.e. 1 st April	At the end of financial year i.e. 31 st March
		54	55	56	57	58	59
1	North Goa	NIL	NA	NA	NA	NA	NA
2	South Goa	NIL	NA	NA	NA	NA	NA
Total		NIL	NIL	NIL	NIL	NIL	NIL

* There are no deposition centers authorised with Goa State Pollution Control Board for collection of domestic hazardous wastes. However local bodies has been directed to make provision for storage of domestic hazardous waste. As per the data submitted by the various local bodies 0.032 MT of domestic hazardous waste is being stored at their facilities. Apart from above the incinerator installed at Goa Medical College, Bambolim has disposed narcotic drugs quantity 28.27Kgs.

A7-B Details of Fluorescent and Other Mercury containing lamps* resulting from Enforcement of Other Regulation							
S. No.	Name of the District	Name and Address of collection centres authorized for collection	Authorized capacity (MT)	Quantity of waste received at collection centres during the year April-March (MT)	Quantity of waste sent to common TSDF during the year April- March (MT)	Quantity of hazardous waste stored at collection centres (MT)	
						At Occupier premises at the beginning of the financial year i.e. 1st April	At Occupier premises at the end of financial year i.e. 31st March
		60	61	62	63	64	65
1	North Goa	NIL	NA	NA	NA	NA	NA
2	South Goa	NIL	NA	NA	NA	NA	NA
Total		NIL	NIL	NIL	NIL	NIL	NIL

* There are no collection centres authorized with Goa State Pollution Control Board, for collection of fluorescent and other mercury containing lamps. The Goa Waste Management Corporation has signed a MoU with M/s Karo Samhah Pvt. Ltd. (PRO) for under taking awareness creation and collection of E-waste across the State of Goa. 1.725 MT of Fluorescent and Other Mercury containing lamps is collected from various village Panchayats, etc. is presently stored at Solid Waste Management Facility, Saligao.

A8 Details of waste collectors											
Sr. No.	Name of the District	Name and Address of waste collectors	Authorized capacity (MT)	Quantity of waste received at collection centres during the year April-March (MT)		Quantity of waste sent to common TSDF during financial		Quantity of waste stored at beginning of the year financial year i.e. 1 st April (MT)		Quantity of waste stored at end of the year financial year i.e. 31 st March (MT)	
				Hazardous waste	Other waste	Hazardous waste	Other waste	Hazardous waste	Other waste	Hazardous waste	Other waste
				66	67	68	69	70	71	72	73
1	North Goa	M/s. Ashutosh Industries, Plot No.A-40, Madkaim Industrial Estate, Madkaim Goa	360	105.45	NIL	NIL	NIL	11.755	NIL	23.225	NIL
		M/s. Sonali Enterprises, (Represented By: Shri. Kishor R. Gaonkar) House No. 297/18/2A, Mangaddo, Corlim, Tiswadi Goa	1200	57.668	NIL	NIL	NIL	NIL	NIL	0	NIL
		M/s. Shri Mahalsa Plastics (Unit III), Pissurlem Industrial Estate, Pissurlem, Sattari-Goa	7200	0	NIL	NIL	NIL	NIL	NIL	NIL	NIL
2	South Goa	M/s. Canacona Hydrocarbons, Plot No.87 & 89, Canacona Industrial Estate, Canacona Goa	16200	2919.059	NIL	NIL	NIL	251.195	NIL	21.014	NIL
Total			24960	3082.147	NIL	NIL	NIL	262.95	NIL	44.239	NIL

Note: The Goa State Pollution Control Board has authorized collection and transport of hazardous waste for the recyclers/utilizer/disposal facilities which are located outside the State. The details of the waste mentioned in format A8 is of recyclable and utilizable hazardous waste collected by the waste collector. The data pertaining to waste sent to Common TSDF is mentioned at format A2.

B Annual Inventory on Recycling / Utilization/Pre-processing/Co-Processing of Hazardous and Other Waste				
Name of SPCB/PCC : GOA STATE POLLUTION CONTROL BOARD			Year :2019-20	
Sr. No.	Type of Recycling Facilities	No of Facilities authorized for recycling / utilization / Pre-processing/ Co-processing of HW (MT)	Total Authorized Capacity (MTA)	Quantity Recycled/ Utilized/ Pre- processed/ Co-processed (MT) during the year
		76	77	78
A	Commonly Recyclable HW			
9	Waste Oil	1	16,200	3149.24
	Total		16200	3149.24
B	Non-captive utilization based on CPCBs SOPs			
1	Recovery of solvents from spent solvents	1	360	93.98
2	Utilization of contaminated drums/ containers barrels (hazardous waste category 33.1 of schedule I of HOWM Rules, 2016)	2	8400	57.668
	Total		8760	137.867
C	Captive utilization of hazardous and other wastes for which SOP has not been prepared by CPCB			
1	NIL	NA	NA	NA
	Total			
D	Pre-processing of hazardous and other waste			
1	NIL	NA	NA	NA
	Total			
E	Co-processing in Cement Plants			
1	NIL	NA	NA	NA
	Total			

List of Authorized Recyclers / Utilizers /Pre-processors/ Co-processors of Hazardous Waste

Name of SPCB/PCC: GOA STATE POLLUTION CONTROL BOARD Year: 2019-20

Sr.No.	Name and Address of the Facility	Type of Hazardous Waste authorised for recycling	Authorized Recycling / Utilization / Co-Processing Capacity (MTA)	Quantity Recycled/ Utilized/ Co-processed (MT)
	79	80	81	82
A	List of Authorized Recyclers of hazardous waste			
1	M/s. Canacona Hydrocarbons, Plot No.87 & 89, Canacona Industrial Estate, Canacona Goa.	waste oil	16,200	3149.24
	Total		16200	3149.24
B	List of Authorized Utilizers (under Rule 9) of hazardous and other wastes			
1	M/s. ASHUTOSH INDUSTRIES Plot No.A-40, Madkaim Industrial Estate, Madkaim Goa	Spent solvents (20.2) Spent Organic Solvent (28.5)	360	93.98
2	M/S. SONALI ENTERPRISES (Represented By: Shri. Kishor R. Gaonkar), House No. 297/18/2A, Mangaddo, Corlim, Tiswadi, Goa	Empty barrels/containers/liners contaminated with hazardous chemicals /wastes(33.1)	1200	57.668
3	M/s. Shri Mahalsa Plastics (Unit III), Pissurlem Industrial Estate, Pissurlem, Sattari-Goa	Empty barrels/containers/liners contaminated with hazardous	7200	0
	Total		8760	151.648

C	List of Authorized Utilizers (under captive utilization) of hazardous and other wastes			
1	NIL	NA	NA	NA
	Total			
D	List of Authorized Pre-processors of hazardous and other wastes			
1	NIL	NA	NA	NA
	Total			
E	List of Authorized Co-processors of hazardous and other wastes			
1	NIL	NA	NA	NA
	Total			

Details on disposal of Hazardous Waste in Common TSDF(s)														
Name of SPCB/PCC: GOA STATE POLLUTION CONTROL BOARD											Year : 2019-2020			
S. No	Name and Address of the TSDF	Quantity in beginning (MT)	Stock at the end of the year (T)	*Quantity of Hazardous Waste Received (MT)		Quantity of Hazardous Waste Disposed (MT)		Quantity in Stock at the end of the year (MT)		Cumulative HW disposed by the end of financial year (MT)		Capacity		
		Landfillable	Incinerable	For landfill	For Incineration	For landfill	Quantity Incinerated	Landfillable	Incinerable	SLF	Incinerator	Incinerator (T/H)	Incinerator (Kcal)	Landfill (MT/A)
		83	84	85	86	87	88	89	90	91	92	93	94	95
1	NIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Note: Presently there are no common TSDF (S) established in the State of Goa. Goa State is in a process of setting of Common TSDF at Pissurlem Industrial Estate

D1-B Details on disposal of Other Waste in Common TSDF(s)													
Name of SPCB/PCC: GOA STATE POLLUTION CONTROL BOARD											Year : 2019-20		
Sr. No	Name and Address of the TSDF	Quantity in Stock at the beginning of the year (MT)		*Quantity of Other Waste Received (MT)		Quantity of Other Waste Disposed (MT)		Quantity in Stock at the end of the year (MT)		Cumulative other waste disposed by the end of financial year (MT)		Capacity	
		Landfillable	Incinerable	For landfill	For Incineration	Quantity Landfilled directly	Quantity Incinerated	Landfillable	Incinerable	SLF	Incinerator	Incinerator (T/H)	Landfill (MT/A)
	97	98	99	100	101	102	103	104	105	106	107	108	109
1	NIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Note: Presently there are no common TSDF (S) established in the State of Goa. Goa State is in a process of setting of Common TSDF at Pissurlem Industrial Estate

D2 Details on Captive TSDF (s)								
Name of SPCB/PCC: GOA STATE POLLUTION CONTROL BOARD						Year:2019-20		
Sr. No.	Name and Address of Captive facility	Type of facility (landfillable/ Incinerable/ both)	Capacity		HW disposed during the year (MT)		Cumulative HW disposed till the end of financial year (MT)	
			Incinerator (MT/H)	Landfill (MT/A)	SLF	Incinerator	SLF	Incinerator
	110	111	112	113	114	115	116	117
1	Nicomet Industries Ltd. (Captive Secured Landfill Facility) PLOT NO:Quarry Portion Within Cuncolim IDC allotted by GIDC, Plot No. L15, 19,20 Cuncolim IDC Salcete Goa, Cuncolim - 403703	Captive Landfillable Site	NA	106846 MT	*(NIL)	NA	79166.23 MT	NA
2	M/s Deccan Fine Chemicals (India) Private Limited, Santa Monica Works, Corlim, Ilhas, Goa 403110	Incinerator	3500 Tons/Month 2600 Tons/Month (not in operation)	NA	NA	10769	NA	10769
Total				106846		10769	79166.23	10769

* The unit M/s Nicomet Industries Ltd., has closed down the operations since 2019. The unit has 2087 MT of landfillable hazardous waste stored within their premises

D3 Details on Common TSDF(s) involved in disposal of Domestic Hazardous Waste and Fluorescent and Other Mercury containing lamps											
Name of SPCB/PCC: GOA STATE POLLUTION CONTROL BOARD										Year:20	
Sr. No.	Name and Address of the TSDFs involved in disposal of domestic Hazardous waste and Fluorescent and other mercury containing lamps	Quantity of domestic HW received	Name and address of deposition center from where such waste received	Quantity of fluorescent and other mercury containing lamps received	Name and address of collection centre from where such waste received	Quantity of Hazardous Waste Disposed (MT)		Quantity of waste stored (MT)			
						Domestic HW	Fluorescent and other mercury containing lamps	Quantity of waste stored (MT)		Fluorescent and other mercury containing lamps	
								At Occupier premises at the beginning of the financial year	At Occupier premises at the end of financial year	At the beginning of the financial year	At the end of financial year
118	119	120	121	122	123	124	125	126	127	128	
1	NIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total											

Note:Presently there are no common TSDF (S) established in the State of Goa. Goa State is in a process of setting of Common TSDF at Pissurlem Industrial Estate