

ANNEXURE-I

Submission of Annual Inventory on Hazardous Waste and Other Management

Name of SPCB/PCC:GOA STATE POLLUTION CONTROL BOARD

YEAR: 2018-2019

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	2	3	4	5		6	7	8	9		10	11	12	13
1	North Goa	963	917	NIL	202	531.204	25763.2	3689.34	20381.46	50365.204	0.84	17277.8187	509.801	5401.8059	23190.2656	NIL	NA	NIL	NA
2	South Goa	598	565	NIL	159	9638.995	2817.947	4003.4178	2025.28	18485.6398	3.792	1190.069089	2839.8831	1259.7716	5293.515789	NIL	NA	NIL	NA
Total		1561	1482	NIL	361	10170.199	28581.147	7692.7578	22406.74	68850.8438	4.632	18467.88779	3349.6841	6661.5775	28483.78139	NIL	NIL	NIL	NIL

Note: It may be noted that out of the total authorized units, approx. 65 % 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	NIL	NA
2	For disposal at common Incinerator	NIL	NA	Maharashtra	2167.46
3	For recycling by Schedule IV recyclers	NIL	NA	Kerela	201.59
				Karnataka	57.315
				Maharashtra	1924.288
				Telangana	39.68
4	For utilization in co-processing (cement plants)	NIL	NA	Andhra Pradesh	44.06
				Karnatak	5319.79
5	For utilization under Rule 9 (other than co-processing)	NIL	NA	Maharashtra	598.711
				Gujarat	190.6

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	Co-processing in Cement plant	Non-captive utilization based on CPCBs SOPs
		Generated within state	Imported	Generated within state	Imported	Generated within state	Imported				
		18	19	20	21	22	23	24	25	26	27
1	North Goa	NIL	NIL	NIL	NIL	137.867	NIL	224.11	NIL	NIL	NIL
2	South Goa	1134	NIL	NIL	NIL	NIL	NIL	302.09	NIL	NIL	NIL
Total		1134		NIL	NIL	137.867	NIL	526.2	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	16292	NIL	NIL
2	South Goa	NIL	NIL	NIL	NIL	NIL	NIL
Total		NIL	NIL	NIL	16292	NIL	NIL

* There is no CHWSTDF opertaed 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	299.013	282.4412	8.8382	74.57	182.803	196.5075	3.732	674.145
2	South Goa	7.572	78.4189	0.142	81.415	2093.332	35.4082	21.941	72.076
Total		306.585	360.8601	8.9802	155.985	2276.135	231.9157	25.673	746.221

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

Sr.No.	Name of the District	Number of units authorized for recycling/utlization 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	Domesticall y 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	16439.55	NIL	16439.55	155006.9	NIL	NIL	NIL	NIL
2	South Goa	NIL	6	NIL	276360	39904.42	NIL	39904.42	25168.1	NIL	NIL	NIL	NIL
Total		NIL	17	NIL	441960	56343.97	NIL	56343.97	180175	NIL	NIL	NIL	NIL

A7-A Details of Domestic Harzardous 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)	Qunatity 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

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. 1 st April	At Occupier premises at the end of financial year i.e. 31 st March
						60	61
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

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	129.922	NIL	NIL	NIL	19.7	NIL	11.755	NIL
2	South Goa	M/s. Canacona Hydrocarbons, Plot No.87 & 89, Canacona Industrial Estate, Canacona Goa	16200	1237.22	NIL	NIL	NIL	147.975	NIL	251.195	NIL
Total			16560	1367.1	NIL	NIL	NIL	167.67	NIL	262.95	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.

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 : 2018/2019	
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			
1	Brass Dross	NA	NA	NA
2	Zinc Bearing Wastes	NA	NA	NA
3	Copper Bearing Waste	NA	NA	NA
4	Spent catalyst containing nickel, cadmium, Zinc, copper, arsenic, vanadium and cobalt	NA	NA	NA
5	Lead bearing waste including battery waste	NA	NA	NA
6	E-Waste	NA	NA	NA
7	Paint and ink Sludge/ residues	NA	NA	NA
8	Used oil	NA	NA	NA
9	Waste Oil	M/s. Canacona Hydrocarbons, Plot No.87 & 89, Canacona Industrial Estate, Canacona Goa.	16,200	1134
	Total		16200	1134
B	Non-captive utilization based on CPCBs SOPs			

1	Recovery of solvents from spent solvents	M/s. ASHUTOSH INDUSTRIES Plot No.A-40, Madkaim Industrial Estate, Madkaim Goa	360	137.867
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	NA	NA	NA
3	Utilization of Spent Catalyst - to recover - Platinum, Iridium, Osmium, Palladium, Rhodium, Ruthium, Rhenium, Gold & Silver	NA	NA	NA
4	Utilization of Spent H2SO4 generated form Pickling operations for manufacturing Ferrous Sulphate	NA	NA	NA
	Total		360	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			

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

Name of SPCB/PCC: GOA STATE POLLUTION CONTROL BOARD Year: 2018-19

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	1134
	Total		16200	1134
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	137.867
	Total		360	137.867
C	List of Authorized Utilizers (under captive utilization) of hazardous and other wastes			

1	NIL	NA	NA	NA
2				
	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			

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

Name of SPCB/PCC: GOA STATE POLLUTION CONTROL BOARD

Year : 2018-2019

S. No	Name and Address of the TSDF	Quantity in beginning (MT)	Stock at the f 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

* Presently there are no common TSDF (S) established in the State of Goa. Goa State is in a process of setting of 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 : 2018-19

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
1	NIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

D2 Details on Captive TSDF (s)

Name of SPCB/PCC: GOA STATE POLLUTION CONTROL BOARD

Year:2018-19

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
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	16292	NA	16292
Total				106846		16292	79166.23	16292

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:201

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	N A	NA	NA	NA	NA	NA	NA
Total											

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