

Submission of Annual Inventory on Hazardous and Other Waste Management

Name of SPCB: Goa State
Pollution Control Board

Year: 2020-
2021

A1 Details on Hazardous Waste Generation

S.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 (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	1054	1054	7	463	415.658	16858.345	1828.4743	31237.295	50339.7723	20.1142	5152.019	332.6363	17051.199	22555.9685	NIL	NA	NIL	NA
2	South Goa	627	627	9	359	9650.865	1534.77	3510.0378	5798.721	20494.3938	3.304	240.086	1998.22	2218.5976	4460.2076	NIL	NA	NIL	NA

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.)

* At serial no. 2 above the quantity of landfillable HW waste as per authorization is inclusive of the unit M/s Nicomet Industries Ltd., which has been closed down its operations since 2019 and the quantity included of the unit is 9600MT.

A2 Details on Inter-state Movement of Hazardous Waste for Recycling/ Utilisation/ Disposal

S. 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 (MT)	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	706.92	
				Karnataka	16.51	
3	For recycling by Schedule IV recyclers	Karnataka	8.14	Maharashtra	506.998	
				Maharashtra	Karnataka	13.815
					Kerala	126.44
4	For utilization in co-processing (cement plants)	NIL	NA	Karnataka	15756.788	
				NIL	NA	Andhara Pradesh
5	For non-captive utilization based on CPCBs SOPs	NIL	NA	Maharashtra	361.38	
				NIL	NA	Gujarat

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 waste 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	339.225	NIL	NIL	NIL	NIL	NIL
2	South Goa	1939.55	NIL	NIL	NIL	252.67	NIL	*43	80.86	NIL	NIL
Total		1939.55				591.895		43	80.86		

*M/s Zuari Agro Chemicals has utilized 43MT of ETP sludge generated from their unit.

It may be noted that some of the units has de-contaminated empty barrels within their premises quantity for North Goa-167.55 and South Goa- 207.3 MT

A4 Details on Hazardous Waste Disposed

S.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	4665.1	NIL	NIL
2	South Goa	NIL	NIL	NIL	NIL	NIL	NIL

* The CHWSTDFs M/s Ponda Envocare Ltd. has obtained consent to operate from the Board for operation of landfill having capacity 25000MT/annum, however no waste is disposed for the financial year 2020-2021.

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	87.702	96.4444	44.27	578.658	95.454	126.131	38.018	671.405
2	South Goa	6.998	19.533	51.452	54.687	8.042	5.088	37.193	27.428

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

S.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)	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)	Quantity of Other waste received from other state (MT)	Quantity of Other waste sent to other state (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 Comm on TSDF (MT)	Quantity of HW generated during recycling/ utilization of other waste (MT)	Quantity of HW sent for disposal (MT) (as given at 54)	Quantity of other waste stored at Occupiers premises (MT) (including imported and domestically generated)	
		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	46(i)				46(ii)	47
1	North Goa	NIL	11	NA	711600	27135.54	B1010	*As listed below	NIL	NA	NA	***72761.845		27135.53	72761.845	NIL	NIL	NIL	NIL	NIL	NIL
2	South Goa	NIL	6	NA	276360	40154.29	B1010	**As listed below	NIL	NA	NA	***55869.063		40154.291	55869.063	NIL	NIL	NIL	NIL	NIL	NIL
Total			17		987960	67289.83						128630.908		67289.821	128630.908						

Pragati Udyog (Trader), 88, AV Lawrence Road, Old Market, Margaon, Goa has imported 112MT of other waste (B1010), same is given to Goa Sponge Power Ltd., Sanguem-Goa

Harshit trade links Pvt. Ltd. (Trader), A-3, Sapana Orchid, Pedda, Benaulim, Goa has imported 3433.960 MT of other waste, same is given to M/s Goa Sponge Power Ltd.

Apollp Exim, 505A, Dempo Trade Centre, 11EDC Complex, Patta, Panaji, Goa, has imported 756.89 MT of other waste (B1010), same is given to M/s, Mandovi Casting Pvt. Ltd., Shri Balaji Rollings Pvt. Ltd. M/s Mohit Steel India Pvt.Ltd., M/s Shivam Ispat Pvt. Ltd.

*Senegal, Mauritania, Sierra Leone, Guinea, South Africa, Mozambique, Singapore, UAE, United Kingdom, United States, Moroni, Union Des Comorod, Cape Verde, Gambia, Belgium, Australia, Germany, Netherland

**Senegal, Mauritania, South Africa, Mozambique, Belgium, United Kingdom, Australia, Germany Gambia, Netherland

***No separate data is available, hence combined data is provided.

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

S.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 (MT)	Quantity of domestic HW sent for recycling/utilization (MT)	Quantity of domestic HW sent to common TSDF (MT)		Quantity of hazardous waste stored at deposition centres (MT)	
						SLF	Incinerator	at the beginning of the financial year i.e. 1 st April	at the end of financial year i.e. 31 st March
		57	58	59	60	61	62	63	64
1	North Goa	NIL	NA	NA	NA	NA	NA	NA	NA
2	South Goa	NIL	NA	NA	NA	NA	NA	NA	NA
Total		NIL	NIL	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 Board has directed the local bodies to make provision for storage of domestic hazardous waste. As per the data submitted by the various local bodies 20.253 MT of domestic hazardous waste is being stored at their facilities.

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 (MT)	Quantity of waste sent for recycling/utilization (MT)	Quantity of waste sent to common TSDF (MT)	Quantity of hazardous waste stored at collection 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
		65	66	67	68	69	70	71
1	North Goa	NIL	NA	NA	NA	NA	NA	NA
2	South Goa	NIL	NA	NA	NA	NA	NA	NA

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 Samhhav Pvt. Ltd. (PRO) for under taking awareness creation and collection of E-waste across the State of Goa.

A8 Details of waste collectors

S. No.	Name of the District	Name and Address of waste collectors	Authorized capacity (MT)	Quantity of waste received at collection centres (MT)		Quantity of waste sent for recycling/utilization (MT)		Quantity of waste sent to common TSDF		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	Hazardous waste	Other waste
				72	73	74	75	76	77	78	79	80	81
1	North Goa	NIL	NA	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
2	South Goa	NIL	NA	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Total													

Note: There are no waste collection centres authorized by the Goa State Pollution Control Board. The Board has issued authorization for collection and transport of hazardous waste for the recyclers/utilizer/disposal facilities. The waste generated at the occupiers premises is collected and transported to their facilities for recycling/utilization/disposal.

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

Name of SPCB: Goa State Pollution Control Board

Year:

2020-2021

S. 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	
				Imported Quantity	Other Than Imported Quantity
				84	85
I	Hazardous Waste				
A	Commonly Recyclable HW				
9	Waste Oil	1	16200	NIL	1939.55
	Total		16200		1939.55
B	Non-captive utilization based on CPCBs SOPs				
1	Recovery of solvents from spent solvents	1	360	NIL	81.405
6	De-contamination of contaminated drums/containers/barrels	3	8900	NIL	510.496
	Total		9260		591.901
C	Captive utilization of hazardous wastes for which SOP has not been prepared by CPCB				
1	NA	NIL	NIL	NIL	NIL
	Total				

D	Pre-processing of hazardous waste				
1	NA	NIL	NIL	NIL	NIL
	Total				
E	Co-processing in Cement Plants				
1	NA	NIL	NIL	NIL	NIL
	Total				
II	Other Waste				
A	Other waste recyclers				
1	Metal and metal-alloy wastes in metallic, non-dispersible form:Iron and steel scrap	17	987960	67289.827	128630.9
B	Utilizers (under Rule 9) of other waste				
	NA	NIL	NIL	NIL	NIL
C	Utilizers (under captive utilization) of other waste				
	NA	NIL	NIL	NIL	NIL
D	Pre-processors of other waste				
	NA	NIL	NIL	NIL	NIL
E	Co-processors of other waste				
	NA	NIL	NIL	NIL	NIL

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

Name of SPCB:Goa State Pollution Control Board

Year:

2020-2021

S.No	Name and Address of the Facility	Type of Hazardous Waste authorised for recycling/utilization/co-processing	Authorized Recycling / Utilization / Co-Processing Capacity (MTA)	Quantity Recycled/ Utilized/ Co-processed (MT)	
				Imported	Other than Imported
	79	88	89	90	91
I.	Hazardous Wastes				
A	List of Authorized Recyclers of hazardous waste				
1	M/s. Canacona Hydrocarbons, Plot No.87 & 89, Canacona Industrial Estate,Canacona Goa.	Waste oil	16200	NIL	1939.55
	Total		16200		1939.55
B	List of Authorized Utilizers (under Rule 9) of hazardous waste				
1	M/s. ASHUTOSH INDUSTRIES Plot No.A-40, Madkaim Industrial Estate, Madkaim Goa	Spent solvents (20.2) Spent Organic Solvent (28.5)	360	NIL	81.405
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	NIL	212.23

3	*M/s. Shri Mahalsa Plastics (Unit III), Pissurlem Industrial Estate, Pissurlem, Sattari-Goa	Empty barrels/containers/liners contaminated with hazardous chemicals /wastes(33.1)	7200			NIL	45.591
4	M/s. Deepak Enterprises Represented by Mr. Vijay Kumar A. Gadvi) Plot No. N-63, Verna Industrial Estate, Verna, Salcete- Goa	Empty barrels/containers/liners contaminated with hazardous chemicals /wastes(33.1)	500			NIL	252.675
Total			9260				591.901
C	List of Authorized Utilizers (under captive utilization) of hazardous waste						
1							
Total							
D	List of Authorized Pre-processors of hazardous waste						
1	NIL	NA	NA	NA	NA	NA	NA
Total							
E	List of Authorized Co-processors of hazardous waste						
1	NIL	NA	NA	NA	NA	NA	NA
Total							
II.	Other Wastes						
A	List of Authorized Recyclers of other waste						
1	Goa Sponge Power Ltd., Survey no.58/59/60, Village Santona, Taluka Sanguem, Goa	Metal and metal-alloy wastes in metallic, non- dispersible form:Iron and steel scrap	108000			4929.8	15574.32

2	Shraddha Ispat (melting division), Plot no. M-1, Cuncolim Industrial Estate, Cuncolim, Goa.	Metal and metal-alloy wastes in metallic, non-dispersible form:Iron and steel scrap	45000	9304.071	10757.195	
3	Maa Durga, Plot No. L-1,Cuncolim Industrial Estate, Cuncolim, Goa	Metal and metal-alloy wastes in metallic, non-dispersible form:Iron and steel scrap	0	0	0	Unit is closed
4	Global Ispat Limited, Plot No. M-18 & 19, Cuncolim Industrial Estate, Cuncolim, Goa	Metal and metal-alloy wastes in metallic, non-dispersible form:Iron and steel scrap	42000	25553.93	18108.838	
5	Rukminirama Steel Rolling Pvt. Ltd. (Melting Division), Plot no. L-17, Cuncolim Industrial Estate, Cuncolim, Goa	Metal and metal-alloy wastes in metallic, non-dispersible form:Iron and steel scrap	46800	0	0	
6	Shri. Balaji Rollings Pvt. Ltd., Plot No. 14/15, Cuncolim Incolim Industrial Estate, Cuncolim, Goa.	Metal and metal-alloy wastes in metallic, non-dispersible form:Iron and steel scrap	34560	366.49	11428.71	
7	Kundil Alloys, Plot no. A-1, Near IDC Pump house, Kundaim Industrial Estate, Kundaim, Goa	Metal and metal-alloy wastes in metallic, non-dispersible form:Iron and steel scrap	0	0	0	Unit is closed
8	Mandovi Metal, Plot No. 200-A,Kundaim Industrial Estate, Kundaim-Goa.	Metal and metal-alloy wastes in metallic, non-dispersible form:Iron and steel scrap	0	0	0	Unit is closed
9	Shivam Ispat (P) Ltd., Plot No.333-335, Kundaim Industrial Estate, Kundaim, Goa 403115	Metal and metal-alloy wastes in metallic, non-dispersible form:Iron and steel scrap	432000	6397.595	11129.99	

10	Ambey Forging, Plot No. 343,Kundaim Industrial Estate, Kundaim-Goa.	Metal and metal-alloy wastes in metallic, non-dispersible form:Iron and steel scrap	0	0	0
11	Karthik induction,. Plot No. 120-121, Kundaim Industrial Estate, Kundaim-Goa.	Metal and metal-alloy wastes in metallic, non-dispersible form:Iron and steel scrap	38640	0	4458.07
12	Mohit ispat Amona, Plot No. 1, Navelim Village, Bicholim Industrial Estate, Navelim, Goa	Metal and metal-alloy wastes in metallic, non-dispersible form:Iron and steel scrap	114000	9759.561	35389.475
13	West coast ingot, Plot No. 01,Kundaim Industrial Estate, Kundaim, Goa.	Metal and metal-alloy wastes in metallic, non-dispersible form:Iron and steel scrap	43860	0	0
14	Goa Ispat, Plot No. E-16, Madkaim Industrial Estate, Madkaim, Goa.	Metal and metal-alloy wastes in metallic, non-dispersible form:Iron and steel scrap	21900	3031.69	3405.52
15	Goa Steel, Survey No. 37/1,Radhakrishna Industrial Estate, Bicholim-Goa	Metal and metal-alloy wastes in metallic, non-dispersible form:Iron and steel scrap	1200	693.95	913.28
16	MOHIT STEEL INDUSTRIES PRIVATE LIMITED,Kundaim	Metal and metal-alloy wastes in metallic, non-dispersible form:Iron and steel scrap	30000	5128.425	10362.405
17	Mandovi steel, Kundaim	Metal and metal-alloy wastes in metallic, non-dispersible form:Iron and steel scrap	30000	2124.315	7103.105
	Total		987960	67289.827	128630.908

unit is closed

B	List of Authorized Utilizers (under Rule 9) of other waste				
1	NIL	NA	NA	NA	NA
	Total				
C	List of Authorized Utilizers (under captive utilization) of other waste				
1	NIL	NA	NA	NA	NA
	Total				
D	List of Authorized Pre-processors of other waste				
1	NIL	NA	NA	NA	NA
	Total				
E	List of Authorized Co-processors of other waste				
1	NIL	NA	NA	NA	NA
	Total				

*It may be noted that the unit M/s. Shri Mahalsa Plastics (Unit III), located at Pissurlem Industrial Estate,Pissurlem, Sattari-Goa has closed down its operation since 2020.

D2 Details on Captive TSDF (s)

Name of SPCB: Goa State Pollution Control Board

Year: 2020-2021

S. 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
	118	119	120	121	122	123	124	125
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 Landfill Facility	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	4665.1	NA	4665.1

*It may be noted that the unit M/s Nicomet Industries Ltd., has closed down their operations since 2019, The unit has 2087 MT of landfillable Hazardous waste stored within their premises.

