

# GOA STATE POLLUTION CONTROL BOARD गोंय राज्य प्रदूषण नियंत्रण मंडळ

(An ISO 9001-2015, ISO 14001:2015, ISO 45001:2018 Certified Board)

Phone Nos. : 0832-2407700  
2407701, 2407702  
2407703



Tel/Fax No. : 0832-2407700

Email Ids:

Chairman, GSPCB: chairman-gspcb.goa@nic.in  
Member Secretary GSPCB: ms-gspcb.goa@nic.in  
Office: mail.gspcb@gov.in

No.1/20/6930/2021-PCB/Tech/11638 Speed Post

Date : 30/09/2022

To,  
The Division Head,  
Waste Management-II  
Central Pollution Control Board,  
Privesh Bhawan, East Arjun Nagar,  
Delhi-110032

Sub: Submission of annual inventory on Hazardous and Other Wastes generation and its management for the year 2021-2022.

Sir,

With reference to subject cited above, I am forwarding herewith the Annual Inventory on hazardous and Other wastes generation in the State of Goa for the year 2021-2022. As the data being voluminous the same is send through e-mail at [hwmd.cpcb@nic.in](mailto:hwmd.cpcb@nic.in) for your information.

Yours Faithfully,

(Dr. Shamila Monteiro)  
Member Secretary

For Goa State Pollution Control Board

Copy to,

1. Office file.
2. Guard file.

**Submission of Annual Inventory on Hazardous and Other Waste Management**

of SPCB: Goa State Pollution Control

Year: 2021-2022

**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)				Total Quantity	Quantity of Hazardous Waste generated as per				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
1	North Goa	1110	1104	6	332	415.928	16895.34	1839.3163	31317.565	50468.15	47.66	3844.59	433.034	28540.05	32865.33	NIL	NA	NIL	NA
2	South Goa	687	685	2	221	9650.865	1616.725	3572.5058	5866.643	20706.74	1.434	274.4	1752.42	2726.14	4754.394	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. 9% of the units are only generating HW under category 33.1 (i.e. discarded drums/empty containers .)

Board is in the process of issuing show cause notices to all the units which have not submitted annual returns for year 2021 to 2022

**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	627.47
				Karnataka	42.11
3	For recycling by Schedule IV recyclers	Karnataka	8.18	Maharashtra	540.0625
		Maharashtra	532.82	Karnataka	163.96
4	For utilization in co-processing (cement plants)	NIL	NA	Karnataka	22715.84
		NIL	NA	Andhara Pradesh	6816.72
5	For non-captive utilization based on CPCBs SOPs	NIL	NA	Maharashtra	57.67
		NIL	NA	Gujarat	272.79
		NIL	NA	Kerala	2.087

**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		Co-processing in Cement plant	Non-captive utilization based on CPCBs SOPs
		Generated within state	Imported	Generated within state	Imported	Generated within state	Imported		25		
		18	19	20	21	22	23	24	25	26	27
1	North Goa	NIL	NIL	NIL	NIL	305.1	NIL	NIL	NIL	NIL	NIL
2	South Goa	1531.184	NIL	NIL	NIL	694.176	NIL	*41	541	NIL	NIL
<b>Total</b>		<b>1531.184</b>				<b>999.276</b>		<b>41</b>	<b>541</b>		

\*M/s Zuari Agro Chemicals has utilized 41MT of ETP sludge generated from their unit as filler material.

It may be noted that some of the units has de-contaminated empty barrels within their premises and also some of the recyclable waste is inhouse utilised.

**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	3366.47	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 2021-2022. Presently the waste is stored at CHWSTDF site.

**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 <sup>st</sup> April (MT)				Total Quantity of HW stored at Occupier premises at the end of financial year i.e. 31 <sup>st</sup> March (MT)			
		Landfillable	Incinerable	Recyclable	Utilizable	Landfillable	Incinerable	Recyclable	Utilizable
		34	35	36	37	38	39	40	41
1	North Goa	95.454	126.131	38.018	671.405	5.265	37.7343	9.6378	680.8413
2	South Goa	8.042	5.088	37.193	27.428	2183.7	46.75766	43.2189	37.996

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

S.No.	Name of the District	*Number of units authorized for recycling/utlization of Other Waste (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 Common 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(j)				46(ii)	47
1	North Goa	NIL	11	NA	711600	1788.45	B1010	*As listed below	NIL	NA	NA	***37409.526		1788.45	37409.526	NIL	NIL	NIL	NIL	NIL	
2	South Goa	NIL	6	NA	276360	29792.17	B1010	**As listed below	NIL	NA	NA	***74732.343		29792.17	74732.343	NIL	NIL	NIL	NIL	NIL	
<b>Total</b>			17		987960	31580.62						112141.869		31580.62	112141.869						

\*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,

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

\*\*\*No seprate 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 <sup>st</sup> April	at the end of financial year i.e. 31 <sup>st</sup> March
						57	58	59	60
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 has handled approx 4.307MT of domestic hazardous waste.



**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 <sup>st</sup> April	at the end of financial year i.e. 31 <sup>st</sup> March
							65	66
1	North Goa	NIL	NA	NA	NA	NA	70	71
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 (GWMC) has signed a MoU with M/s Karo Samhava Pvt. Ltd. (PRO) for undertaking awareness creation and collection of E-waste across the State of Goa. Also GWMC is in process of setup of dismantling facility at Pissurlem Industrial estate. 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 21.418 MT of fluorescent waste has been handled.

**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 <sup>st</sup> April (MT)		Quantity of waste stored at end of the year financial year i.e. 31 <sup>st</sup> 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	82	83
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
<b>Total</b>													

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
I	<b>Hazardous Waste</b>	84	85	86	87
A	<b>Commonly Recyclable HW</b>				
9	Waste Oil	1	16200	NIL	1939.55
	<b>Total</b>		16200		1939.55
B	<b>Non-captive utilization based on CPCBs SOPs</b>				
1	Recovery of solvents from spent solvents	1	360	NIL	94.48
6	De-contamination of contaminated drums/containers/barrels	3	6500	NIL	904.796
	<b>Total</b>		6860		999.276
C	<b>Captive utilization of hazardous wastes for which SOP has not been prepared by CPCB</b>				
1	NA	NIL	NIL	NIL	NIL
	<b>Total</b>				
D	<b>Pre-processing of hazardous waste</b>				
1	NA	NIL	NIL	NIL	NIL
	<b>Total</b>				
E	<b>Co-processing in Cement Plants</b>				
1	NA	NIL	NIL	NIL	NIL
	<b>Total</b>				
II	<b>Other Waste</b>				
A	<b>Other waste recyclers</b>				
1	Metal and metal-alloy wastes in metallic, non-dispersible form:Iron and steel scrap	17	987960	31580.62	84904.3993
B	<b>Utilizers (under Rule 9) of other waste</b>				
	NA	NIL	NIL	NIL	NIL
C	<b>Utilizers (under captive utilization) of other waste</b>				
	NA	NIL	NIL	NIL	NIL
D	<b>Pre-processors of other waste</b>				
	NA	NIL	NIL	NIL	NIL
E	<b>Co-processors of other waste</b>				
	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: 2021-2022

S.No	Name and Address of the Facility	Type of Hazardous Waste authorized for recycling/utilization/co-processing	Authorized Recycling / Utilization / Co-Processing Capacity (MTA)	Quantity Recycled/ Utilized/ Co-processed (MT)	
				Imported	Other than Imported
				79	88
<b>I. Hazardous Wastes</b>					
<b>A List of Authorized Recyclers of hazardous waste</b>					
1	M/s. Canacona Hydrocarbons, Plot No. 87 & 89, Canacona Industrial Estate, Canacona Goa.	Waste oil	16200	NIL	1825.43
	<b>Total</b>		<b>16200</b>		<b>1825.43</b>
<b>B List of Authorized Utilizers (under Rule 9) of hazardous waste</b>					
1	M/s. SHIYOSH INDUSTRIES Plot No. A-40, Madkaim Industrial Estate, Madkaim Goa	Spent solvents (20.2) Spent Organic Solvent (28.5)	360	NIL	94.48
2	M/s. SONALI ENTERPRISES (Represented By: Shri. Kishor R. Gaonkar) House No. 297/18/2A, Mangaddo, Corlim, Terasdi, Goa	Empty barrels/containers/liners contaminated with hazardous chemicals /wastes(33.1)	1200	NIL	210.62
3	M/s Sharif and Sons, Plot No. B-25-26/09, Kundaim Industrial Estate, Kundaim	Empty barrels/containers/liners contaminated with hazardous chemicals /wastes(33.1)	4800	NIL	0
4	M/s. Deepak Enterprises Represented by Mr. Vijay Kumar A. Gadvi) Plot No. N-53, Verna Industrial Estate, Verna, Salcete- Goa	Empty barrels/containers/liners contaminated with hazardous chemicals /wastes(33.1)	500	NIL	694.176
	<b>Total</b>		<b>6860</b>		<b>999.276</b>
<b>C List of Authorized Utilizers (under captive utilization) of hazardous waste</b>					
1					
	<b>Total</b>				
<b>D List of Authorized Pre-processors of hazardous waste</b>					
1	NIL	NA	NA	NA	NA
	<b>Total</b>				
<b>E List of Authorized Co-processors of hazardous waste</b>					
1	NIL	NA	NA	NA	NA
	<b>Total</b>				
<b>II. Other Wastes</b>					
<b>A List of Authorized Recyclers of other waste</b>					
1	Goa Sponge Power Ltd., Survey no.58/59/60, Village Santona, Taluka Sangem, Goa	Metal and metal-alloy wastes in metallic, non-dispersible form:iron and steel scrap	108000	6480.49	22297.31
2	Shradha 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	1614.711	18529.05
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	21620	28753
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 unit is closed
6	Shri. Balaji Rollings Pvt. Ltd., Plot No. 14/15, Cuncolim Industrial Estate, Cuncolim, Goa.	Metal and metal-alloy wastes in metallic, non-dispersible form:iron and steel scrap	34500	66.972	4152.983
7	Kundli 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	0	0
10	Ambeey 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 unit is closed
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	3231.89
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	0	0 unit is closed
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 unit is closed
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	310.09	4,527.33
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	0	0 unit is closed
16	MOHT STEEL INDUSTRIES PRIVATE LIMITED, Kundaim	Metal and metal-alloy wastes in metallic, non-dispersible form:iron and steel scrap	30000	894.76	19478.26
17	Mandovi steel, Kundaim	Metal and metal-alloy wastes in metallic, non-dispersible form:iron and steel scrap	30000	583.6	10172.05
	<b>Total</b>		<b>987960</b>	<b>31580.623</b>	<b>112141.869</b>
<b>B List of Authorized Utilizers (under Rule 9) of other waste</b>					
1	NIL	NA	NA	NA	NA
	<b>Total</b>				
<b>C List of Authorized Utilizers (under captive utilization) of other waste</b>					
1	NIL	NA	NA	NA	NA
	<b>Total</b>				
<b>D List of Authorized Pre-processors of other waste</b>					
1	NIL	NA	NA	NA	NA
	<b>Total</b>				
<b>E List of Authorized Co-processors of other waste</b>					
1	NIL	NA	NA	NA	NA
	<b>Total</b>				



## D2 Details on Captive TSDF (s)

Name of SPCB: Goa State Pollution Control Board

Year: 2021-2022

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	M/s MALCO ENERGY LIMITED. (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 secured 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 (2600 Tons/mon incinerator not in operation)	NA	NA	3353.05	NA	3353.05

\*It may be noted that the unit M/s Nicomet Industries Ltd., has closed down their operations since 2019 and the operations has been taken over by M/s MALCO energy ltd through NCLT. The unit has 2087 MT of landfillable Hazardous waste stored within their premises in M11 closed shed in Cuncolim Industrial Estate.

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

Name of SPCB: Goa State Pollution Control Board

Year: 2021-2022

S.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	
								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
126	127	128	129	130	131	132	133	134	135	136	
1	NA	NIL	NA	NIL	NA	NIL	NIL	NIL	NIL	NIL	NIL