

GOA STATE POLLUTION CONTROL BOARD

गोंय राज्य प्रदूषण नियंत्रण मंडळ

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

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Speed Post

No. 1/20/2023-PCB/Tech/13985

Date: 28/09/2023

To,
The Divisional Head,
Waste Management-II
Central Pollution Control Board,
Parivesh Bhawan, East Arjun Nagar,
New Delhi-110032

Sub: Submission of Annual Inventory on Hazardous and Other Waste generation
and its Management for the year 2022-2023

Sir,

With reference to subject cited above, I am forwarding herewith the Annual Inventory on Hazardous and Other Waste generation in the State of Goa for the year 2022-2023. As the data being voluminous the same is send through e-mail at hwmd.cpcb@nic.in for your information.

Yours faithfully,

(Dr. Shamila Monteiro)
Member Secretary
Goa State Pollution Control Board

Copy to:

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2. Guard file

Submission of Annual Inventory on Hazardous and Other Waste Management

Name of SPCB: Goa State
Pollution Control Board

Year: 2022-2023

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	North Goa	1250	1248	2	423	415.928	7992.68	1861.316	40266.465	50536.39	252.409	2741.4099	518.5085	35903.63	39415.96	NIL	NA	NIL	NA
2	South Goa	745	736	9	266	9650.865	1620.915	3587.7478	5898.944	20758.47	1.008	235.39	1860.2623	3360.376	5457.036	NIL	NA	NIL	NA
														44872.99					

Note: It may be noted that out of the total authorized units, approx. 72 % of the units are only generating small qty of HW under category 5.1 (i.e. Used spent oil from D.G.sets, etc) and approx. 7% 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 2022 to 2023

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	479.048
3	For recycling by Schedule IV recyclers	Karnataka	0	Maharashtra	592.33
		Maharashtra	1763	Karnataka	286.06
4	For utilization in co-processing (cement plants)	NIL	NA	Karnataka	19391.3176
		NIL	NA	Andhara Pradesh	15142.53
5	For non-captive utilization based on CPCBs SOPs	NIL	NA	Maharashtra	246.095
		NIL	NA	Karnataka	2.116

2378.77
1555
319.05
504.72

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)	
		Generated within state	Imported	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
18	19	20	21	22	23	24	25	26	27		
1	North Goa	NIL	NIL	NIL	NIL	604.633	NIL	NIL	NIL	NIL	NIL
2	South Goa	3562.13	NIL	NIL	NIL	712.64	NIL	*42	1763	NIL	NIL
Total		3562.13				1317.273		42	1763		

*M/s Zuari Agro Chemicals has utilized 42MT 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	2173.1	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 2022-2023. 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 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	5.265	37.7343	9.6378	680.8413	15.098	10.882	14.54744	147.25799
2	South Goa	2183.7	46.75766	43.2189	37.996	2.474	1.1254	6.066	85.386

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	277740	310.275	B1010	*As listed below	NIL	NA	NA	***70926.702		310.275	70926.702	NIL	NIL	NIL	NIL	NIL	
2	South Goa	NIL	6	NA	315960	46267.1	B1010	**As listed below	NIL	NA	NA	***93131.495		46267.1	93131.495	NIL	NIL	NIL	NIL	NIL	
Total			17		593700	46577.37						164058.197		46577.375	164058.197						

*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.

YEAR

2022-2023

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
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. Board has directed the local bodies to make provision for storage 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 st April	at the end of financial year i.e. 31 st 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. Goa Waste Management Corporation (GWMC) is in process of setup of dismantling facility at Pissurlem Industrial estate. Board has also directed the local bodies to make provision for storage of domestic hazardous waste.

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	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
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:

2022-2023

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	Hazardous Waste	84	85	86	87
A	Commonly Recyclable HW				
9	Waste Oil	1	16200	NIL	3562.13
	Total		16200		3562.13
B	Non-captive utilization based on CPCBs SOPs				
1	Recovery of solvents from spent solvents	1	360	NIL	99.869
6	De-contamination of contaminated drums/containers/barrels	4	7280	NIL	1217.404
	Total		7640		1317.273
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	982500	46577.37	164058.199
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:

2022-2023

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	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	3562.13
	Total		16200		3562.13
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	99.869
2	M/S. SOMALI 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	198.468
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	41.5
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)	950	NIL	712.64
5	M/s. HINDUSTAN CONTAINERS Plot No. 5-2, Colvale Industrial estate, Colvale, Bardez-Goa	Empty barrels/containers/liners contaminated with hazardous chemicals /wastes(33.1)	330	NIL	264.796
	Total		7310		1317.273
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
	Total				
E List of Authorized Co-processors of hazardous waste					
1	NIL	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 Sangaem, Goa	Metal and metal-alloy wastes in metallic, non-dispersible form:iron and steel scrap	108000	7551.76	15049
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	17095.335	33481.985
3	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
4	Orange Fox Steels Pvt Ltd PLOT NO. L-26, L-25, CUNCOLIM INDUSTRIAL ESTATE, CUNCOLIM GOA, Cuncolim, Goa	Metal and metal-alloy wastes in metallic, non-dispersible form:iron and steel scrap	86400	0	12451.51
5	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	0	3396
6	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
7	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	3973.231
8	Mohit Ispat, 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	35730.28
9	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	0	3,420.84
10	MOHIT STEEL INDUSTRIES PRIVATE LIMITED,Kundaim	Metal and metal-alloy wastes in metallic, non-dispersible form:iron and steel scrap	30000	178.52	16436.128
11	Mandovi Casting, 341, Kundaim IDC, Goa	Metal and metal-alloy wastes in metallic, non-dispersible form:iron and steel scrap	30000	131.755	11366.223
	Total		982500	46577.37	164058.199
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				

D2 Details on Captive TSDF (s)

Name of SPCB: Goa State Pollution Control Board

Year: 2022-2023

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	2173.1	NA	2173.1

*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 had 2087 MT of landfillable Hazardous waste stored within their premises in M11 closed shed in Cuncolim Industrial Estate.The unit has started transportation of said HZW to CHWTSDF at Pissurlem Goa

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: 2022-2023

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