



MIZORAM STATE POLLUTION CONTROL BOARD

No.H.88088/Poltn/4/18-MPCB/ 40

Dated Aizawl, the 23rd August 2018.

To,

Shri A.Sudhakar,
Member Secretary,
Central Pollution Control Board,
Parivesh Bhawan, East Arjun Nagar,Shahdara,
Delhi-110032.

Subject: **Submission of Annual Inventory on Hazardous Waste Generation and its Management for the year 2017-2018 reg-**


Reference: Y/L F.No.B-29016(SC)/1/18/WM-II Div/5201 dt.04.06.2018

Sir,

With reference to your letter No. and the subject cited above, may I submit herewith Annual Inventory on Hazardous Waste Generation and its Management for the year 2017-2018 as per format A, B, C and D for favour of your kind information and necessary action.

Yours faithfully

Enclo. As above.


(C. LALDUHAWMA)
Member Secretary
Mizoram State Pollution Control Board

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Format-A for Submission of Annual Inventory on Hazardous Wastes Management by Occupiers

Name of SPCB/PCC: Mizoram State Pollution Control Board

Year: 2017-2018

A1 Details on Hazardous Wastes Generation

Sl No	Name of the District	Number of HW Generating units	Athorised Quantity of Hazardous Wastes (Metric Tonne)				•Quantity of Hazardous Wastes generated as per Annual Return within the State/UT (Metric Tonne)				Quantity of HW imported during the year (Metric Tonne)	Quantity of HW exported during the year (Metric Tonne)
			Landfillable	Incinerable	Recyclable	Utilizable	Landfillable	Incinerable	Recyclable	Utilizable		
		1	2	3	4	5	6	7	8	9	10	11
1.	Aizawl District	33	-	-	16.5	-	-	-	3.08		Nil	Nil

Note: The only source of hazardous wastes in the state is mostly used oil generated by automobiles repairing workshop and the quantity of which is very less

Format-A2: Details on Inter-State Movement of Hazardous Waste for recycling/Utilization/disposal

Sl No	Hazardous Waste	Hazardous Wastes received from other State/UT (MT)		Hazardous Wastes 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)
			12		13
1	For disposal at common secured landfill	Not Available	N.A	Not Available	N.A
2	For disposal at common incinerator	Not Available	N.A	Not Available	N.A
3	For recycling by schedule-IV recyclers	Not Available	N.A	Not Available	N.A
4	For utilization in co-processing (cement plants)	Not Available	N.A	Not Available	N.A
5	For utilization under Rule 9 (other than co-processing)	Not Available	N.A	Not Available	N.A

**Format-B Annual Inventory on Recycling/Utilization/Co-Processing of
hazardous Wastes**

Name of SPCB/PCC: Mizoram State Pollution Control Board

Year: 2017-2018

Sl No	Type of Recycling Facilities	No. of Facilities authorized for recycling/utilization/co-processing of HW	Total Authorized Capacity (MTA)	Quantity Recycled/Utilized/Co-processed (MTA)
A	Commonly Recyclable HW	-Nil-	N/A	N/A
1.	Brass Dross	-Nil-	N/A	N/A
2.	Zinc Bearing Wastes	-Nil-	N/A	N/A
3.	Copper Bearing Wastes	-Nil-	N/A	N/A
4.	Spent catalyst containing nickel, cadmium, Zinc, copper, arsenic, vanadium and cobalt	-Nil-	N/A	N/A
5.	Lead bearing waste including battery waste	-Nil-	N/A	N/A
6.	E - Waste	-Nil-	N/A	N/A
7.	Paint and Ink Sludge/residues	-Nil-	N/A	N/A
8.	Used oil	-Nil-	N/A	N/A
9.	Waste Oil	-Nil-	N/A	N/A
	Total	-	-	-
B	Utilization of HW under Rule 9	-Nil-	N/A	N/A
1	Recovery of solvents from spent solvents	-Nil-	N/A	N/A
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	-Nil-	N/A	N/A
3	Utilization of Spent Catalyst to recover Platinum, Iridium, osmium, palladium, Rhodium,	-Nil-	N/A	N/A

	Ruthium, Rhenium, Gold & Silver.			
4	Utilization of Spent H ₂ SO ₄ generated from picking operations for manufacturing Ferrous Sulphate.	-Nil-	N/A	N/A
5	Utilization of Spent acid containing Molebednum, generated from filament industries for producing Molybednum Trioxide by heating process	-Nil-	N/A	N/A
6	Utilization of spent HCL generated from steel rolling mill for producing Ferric Chloride	-Nil-	N/A	N/A
7	Utilization of used Anode butt produced carbon pellets and High Energy (HE) Coke for use in Steel Furnace/foundries	-Nil-	N/A	N/A
8	Utilization of used Anode butt to produce Carbon Blended Coke/Electrode Carbon Paste/Carburizer for use in Steel of Ferroalloy Furnaces	-Nil-	N/A	N/A
9	Utilization of Pre-processed Used Anode Butt to produce Green Anodes through Anode Baking process for use in Aluminum Smelters	-Nil-	N/A	N/A
10.	Utilization of Pre-processed Used Anode Butt generated to produce Carbon Electrode Paste	Nil-	N/A	N/A
11.	Utilization of Coal Tar/Tarry Residue generated from coal gasifier for energy recovery in sodium silicate Industry	-Nil-	N/A	N/A

12.	De-contamination of contaminated drums//containers/barrels	-Nil-	N/A	N/A
13.	Utilization of process sludge and primary ETP sludge generated from pulp & Paper industries for producing Paper Board/Mill Board/Card Board	-Nil-	N/A	N/A
14.	Captive utilization of Aluminum Dross generated from reining and casting house of Aluminum smelter units to recover Aluminum metal	-Nil-	N/A	N/A
15.	Utilization of Aluminum Dross generated from reining and casting house of Aluminum smelter units to recover Aluminum metal	-Nil-	N/A	N/A
16.	Utilization of oil based iron sludge of Ball & Roller bearings for producing Ferrous Sulphate	-Nil-	N/A	N/A
17.	Utilization of Mercury Waste generated from various industry for recovering Mercury	-Nil-	N/A	N/A
18.	Utilization of Spent H ₂ SO ₄ generated from Dye and Dye intermediates to produce gypsum suitable for use in cement plants	-Nil-	N/A	N/A
19.	Utilization of Spent fixer (hypo) solution generated from Photography/X-Ray films to recover silver metal	-Nil-	N/A	N/A
20	Utilization of Hydro fluoro silicic acid- Acidic scrubber solution generated during Single Super Phosphate manufacturing industry Recovered Sodium Silico	-Nil-	N/A	N/A

	Fluoride (Sodium Fluorosilicate) for use of glass industry			
21	Utilization of Spent Sulphuric Acid Para generated during Nitro Toulene Ortho Sulfonic Acid/Oxadiargyl Anthriquinone manufacturing Industry for production of Ferrous Sulphate	-Nil-	N/A	N/A
22	Utilization of Vanadium Sludge generated from Alumina refineries for production of Vanadium metal	-Nil-	N/A	N/A
23	Utilization of Phenolic Waste water generated form Coal Gasifier condensate water for Quenching of hot gases in After Burning Chamber of Direct- reduced iron (DRI) kiln of Sponge Iron Industry	-Nil-	N/A	N/A
24	Utilization of Chemical sludge (Primary sludge) of ETP from Pulp & Paper Industry For energy recovery in Atmospheric Fluidized Bed Combusution (AFBC) Boiler/Pressure Fluidized Bed Combusution (PFBC) Boiler/Circulating Fluidized Bed Combusution (CFBC) Boiler for steam or electricity generation.	-Nil-	N/A	N/A
25	Utilization of spent carbon (Carbon Slurry) generated from urea manufacturing plant for Quenching of Carbon Slurry in the reactor for manufacturing carbon black.	-Nil-	N/A	N/A
26	Utilization of spent Acid Containing Molybdenum Compound generated from bulb filament manufacturing Industry	-Nil-	N/A	N/A

	for manufacturing Ammonium Molybdate.			
27	Utilization of Resin Waste (a mixture of Bisphenol A and Epichlorohydrin) generated from Resin impregnation of electrical coils power/hydro equipments Industry for manufacturing High Tension/ Low Tension Insulators	-Nil-	N/A	N/A
28	Utilization of Spent Alumina generated during Polymerization in SWING unit of Petrochemical Plant for manufacturing of Refractory material like Insulation Bricks,Mortars, Castables, High Alumina bricks.	-Nil-	N/A	N/A
29	Utilization of Spent Ion Exchange Resin generated from Demineralization (DM) Plant for energy recovery in boiler for steam or power generation.	-Nil-	N/A	N/A
30	Utilization of Spent Ion Exchange Resin generated from Demineralization (DM) Plant for energy recovery in Direct – reduced iron (DRI) kiln of sponge iron industry.	-Nil-	N/A	N/A
31	Utilization of Tungsten Scrap generated from Metal cutting operation (using Tungsten carbide insert), mining tool buttons and worn out drills for manufacturing Tungsten Carbide Powder.	-Nil-	N/A	N/A
32	Utilization of Spent Pot Lining generated during production of Primary Aluminium for Alumina Smelting Industries for utilization	-Nil-	N/A	N/A

	as a supplementary resource for manufacturing of Carbon Mineral Fuel			
33	Utilization of spent Sulphuric Acid and spent Sodium Thiosulphate generated during manufacturing of 4, 4 Diaminobenzene Sulphanilide for Isolation and purification of 2-NADSFA & 6-Acetyl APSA	-Nil-	N/A	N/A
34	Utilization of Coal Tar/Tarry Residue generated from Coal gasifier units for utilization as supplementary fuel in furnace for energy recovery in Frit manufacturing units.	-Nil-	N/A	N/A
35	Utilization of Gasifier Slag containing Nickel & Spent catalyst containing Molybdenum generate from Nitrogenous Fertilizer Industry for manufacturing Alloy steel ingots and stainless steel ingots.	-Nil-	N/A	N/A
36	Utilization of synthetic oil based mud/drill cuttings generated from Oil & Natural Gas Exploration for road construction / Oil recovery.	-Nil-	N/A	N/A
37	Utilization of Flue Gas Cleaning Residue generated from Bag Filter connected to steel scrap melting induction furnace for recovery zinc metal.	-Nil-	N/A	N/A
38	Utilization of Spent Sulphuric Acid and Spent Sodium Thiosulphate generated during manufacturing of 4, 4 Diaminobenzene Sulphanilide for Isolation and	-Nil-	N/A	N/A

	purification of 2-NADSFA & 6-Acetyl APSA for manufacturing of Nitrosyl Sulphuric Acid (NSA).			
39	Utilization of spent Phosphoric Acid generated during manufacturing of Quinacridone Pigment for production of Di-basic Calcium Phosphate	-Nil-	N/A	N/A
40	Utilization of Spent Sulphuric Acid generated during manufacturing of Vinyl Sulphone for production of H-Acid	-Nil-	N/A	N/A
41	Utilization of Waste Dichromate Solution generated during manufacturing of Ibuprofen for production of Basic Chromium Sulphate.	-Nil-	N/A	N/A
42	Utilisation of Used Waste Thinner generated during cleaning of paint feeding lines using solvents for manufacturing of Industrial Primer to be used as Automotive Paints.	-Nil-	N/A	N/A
	Total	-	-	-
C	Co-Processing in Cement Plants	-Nil-	N/A	N/A

Format C: List of Authorized Recyclers/Utilizers/Co-processors of hazardous Wastes

Name of SPCB/PCC: Mizoram State Pollution Control Board

Year: 2017-2018

Sl No	Name & Address of the Facility	Type of Hazardous wastes authirised for recycling	Authorized Recycling /Utilization/Co-processing Capacity (MTA)	Quantity Recycled/Utilized/ Co-processed (MT)
1	Not available	N.A	N.A	N.A

FORMAT D1: Annual inventory w.r.t Common TSDF(s)

Name of SPCB/PCC: Mizoram State Pollution Control Board

Year: 2017-2018

SI No	Name and Address of the TSDF	Quantity in Stock at the beginning of the year (MT)		Quantity of Hazardous Wastes Received (MT)			Quantity of Hazardous Wastes Disposed (MT)			Quantity pre-processed for utilization (MT)	Quantity in Stock at the end of the year		Cumulative HW disposed in SLF by the end of financial year (MT)	Capacity		
		Landfillable	Incinerable	For direct Landfill	For Landfill after treatment	For Incineration	Quantity Landfilled directly	Quantity Landfilled after Treatment	Quantity Incinerated		Landfillable	Incinerable		Incinerator (Kcal)	Incinerator (T/H)	Landfill (MT/A)
1.	Not available	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A

FORMAT D2: Annual inventory w.r.t Captive TSDF(s)

Name of SPCB/PCC: Mizoram State Pollution Control Board

Year: 2017-2018

SI No	Name and Address of the Captive facility	Type of facility (Landfillable/incinerable/both)	Capacity		HW disposed during the year	Cumulative HW disposed in till the end of financial year
			Incinerator (T/H)	Landfill (MT/A)		
1.	Not Available	N.A	N.A	N.A	N.A	N.A