

Annexure-I

Submission of Annual Inventory of Hazardous Waste and other Management

Name of SPCB/PCC: HP State Pollution Control Board

Year: 2018-19

A1: Detail of Hazardous Waste Generation

S.No.	Name of the District	Total Number of HW Generating Industry	Number of Units possessing Authorization	Number of Units exempted from obtaining Authorization	Number of HW Units submitted Annual Return	Authorized Quantity of Hazardous Waste (MT)					Total Quantity	Quantity of Hazardous Waste Generated as per Annual Return within the State/ UT (MT)						Total Quantity	Detail on Import and Export of Hazardous Waste			
						Landfillable MT	Incinerable	Recyclable		Utilizable		Landfillable	Incinerable	Recyclable		Utilizable			Quantity of Hazardous Waste Imported during the year (MT)	Type of HW	Quantity of Hazardous Waste Exported during the year (MT)	Type of HW
								KL	MT					MT	KL	MT	Metal Bearing Waste (MT)					
						1	2	3	4	4		5	6	7	8		9		10	11	12	13
1	Solan	1248	802	-	716	96871.20	--	1066.77	5779.00	9682.32	113399.29	19469.46	--	336.05	209.530	2030.665	1974.08	24019.78	676.42	Zn Ash, Zn Metal, Zn Dross, Al Scrap, Zurik SS	--	--
2	Sirmour	485	372	-	202	7610.74	--	76.41	--	801.68	8488.83	734.05	--	43.88	4.455	18.500	262.94	1063.82	--	--	--	--
3	Una & Hamirpur	185	157	-	115	3458.17	--	39.30	--	43.16	3540.62	943.15	--	10.74	177.860	Nil	21.180	1152.926	--	--	--	--
4	Bilaspur & Mandi	37	23	-	4	115.44	--	138.31	--	31.54	285.29	34.28	--	27.14	0.000	Nil	0.007	61.425	--	--	--	--
5	Kullu & Lahal Spiti	215	174	-	--	0.03	--	34.41	--	0.00	34.44	12.48	--	8.59	0.000	Nil	--	21.065	--	--	--	--
6	Kangra	159	138	-	31	463.80	--	1450.62	67.00	11.72	1993.15	32.89	--	0.52	0.000	Nil	--	33.409	--	--	--	--
7	Chamba	43	42	-	13	0.08	--	14.57	--	0.00	14.65	0.00	--	0.73	0.000	Nil	--	0.730	--	--	--	--
8	Shimla & Kinnaur	136	100	--	49	0.95	--	85.37	--	0.63	86.95	0.388	--	10.91	0.000	Nil	--	11.298	--	--	--	--
Total		2508	1808	--	1130	108520.42	Nil	2905.76	5846.00	10571.04	127843.21	21226.68	0	438.56	391.85	2049.17	2258.21	26364.454	676.42	--	Nil	NA

1033 no of units closed during 2018-19

A2: Detail of Inter State Movement of Hazardous Waste for recycling/ utilization/ 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/KL)	Name of State/UT where waste sent	Quantity sent (MT)
		14	15	16	17
1	For disposal at common secured landfill		Nil	Nil	Nil
2	For disposal at common incinerator		Nil	Nil	Nil
3	For recycling by Schedule-IV recyclers	Haryana	1765.442	Nil	Nil
		Delhi	1054.817		
		Punjab	3201.5		
		Gujrat	159.475		
		MP	92.987		
		Rajasthan	229.58		
		Maharashtra	61.114		
		Uttar Pradesh	1078.883		
		Orissa	106.76		
		Chandigarh	1035.327		
		Karnatka	24.83		
		West Bengal	13.69		
		Tamil Nadu	42.887		
		Uttarakhand	29.61		
		Telagana	6.55		
		Bihar	59.38		
		Jharkhand	100.56		
Jammu & Kashmir	63.865				
Kerla	10.56				
4	For utilization in Co-processing (Cement Plants)	--	Nil	Nil	Nil
5	For utilization under Rule 9 (other than co-processing)	Uttarakhand (Empty Drums)	42.83	Nil	Nil
		--	--	Punjab (Used Oil) Haryana (Used Oil)	433.11
		--	--	Rajsthan (Paint Sludge & Food Waste)	391.025

A3: Detail of Hazardous Waste Recycled and Utilized

S.No.	Name of the State	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		Capative 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	Himachal Pradesh	2049.17	Nil	3411.66	Nil	2252.87	Nil	Nil	12242.73	Nil	42.83
Total		2049.17	Nil	3411.66	Nil	2252.87	Nil	Nil	12242.73	Nil	42.83

A4: Detail of 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	Capative	Common	Capative	Self	Incinerator
		28	29	30	31	32	33
1	Solan	18264.034	--	3411.66	--	--	--
Total		18264.034	--	3411.66	--	Nil	Nil

A5: Detail of Hazardous Waste Stored at Occupier Premises

S.No.	Name of the State	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 the financial year i.e. 31 st March (MT)			
		Landfillable	Incinerable (Coproducting)	Recyclable	Utilizable	Landfillable	Incinerable (Coproducting)	Recyclable	Utilizable (Drums + Metal Bearing Waste)
		34	35	36	37	38	39	40	41
1	Himachal Pradesh	84.64	43.70	--	--	--	173.20	6.26	538.63
Total		84.64	43.70	Nil	Nil	Nil	173.20	6.26	538.63

A6: Detail of 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		Quantity of Other Waste Imported from Oher Country (MT)	Quantity of Other Waste Exported to Oher 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 Wasre stored at Occupier 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	Domestically Generated			At the beginning of the financial year	At the end of finaancial year
1	Solan	-	2	-	30500	676.42	Nil	676.42	--	--	--	Nil	Nil
Total		Nil	2	Nil	30500	676.42	Nil	676.42	Nil	Nil	Nil	Nil	Nil

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

S.No.	Name of the District	Name and Address of deposition centers authorized for collection	Authorized Capacity (MT)	Quantity of domestic HW received at deposition centers during the year April-March (MT)	Quantity of domestic HW sent to Common TSDF during the year April-March (MT)	Quantity of Hazardous Waste stored at deposition centers (MT)	
						at the beginning of the financial year i.e. 1st April (MT)	at the end of the financial year i.e. 31st March (MT)
		54	55	56	57	58	59
1	Solan	Domestic Hazardous Waste Kiosk Nalagarh	--	Nil	Nil	Nil	Nil
Total			--	Nil	Nil	Nil	Nil
* Please refer section 3.1.4 of the guidelines for preparation of inventory on hazardous waste management							

A7-B: Detail of Fluorescent and Other Mercury containing lamps* Resulting from Enforcement of Other Regulation

S.No.	Name of the Himachal Pradesh	Name and Address of collection centers authorized for collection	Authorized Capacity (MT)	Quantity of waste received at collection centers 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 centers (MT)	
						at the Occupier premises at the beginning of the financial year i.e. 1st April	at the Occupier premises at the end of the financial year i.e. 31st March
		60	61	62	63	64	65
1	Himachal Pradesh	--	--	--	List Enclosed	--	--
Total							

* Please refer section 3.1.4 of the guidelines for preparation of inventory on hazardous waste management

A8: Detail of Waste Collectors

S.No.	Name of the District	Name and Address of the Waste Collectors (Used Oil Transporter only)	Authorized Capacity (MT)	Quantity of Waste received at Collection Centers during the year April-March (MT)		Quantity of Waste sent to Common TSDF during Financial year (Used Oil Recycler)		Quantity of Waste stored at the beginning of the financial year i.e. 1st April (MT)		Quantity of Waste stored at the end of the financial year i.e. 31st 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	Solan	Surya Oil Traders, VPO Manpura (Manpura Dhela Road), Tehsil Nalagarh, Distt. Solan (HP)	100	28.98	Nil	23.54	Nil	Nil	Nil	5.44	Nil
		Keshav Enterprises, Village Chuhuwal, Near Shiv Mandir, Tehsil Nalagarh, Distt. Solan (HP)	10	3.615	Nil	3.615	Nil	Nil	Nil	Nil	Nil
		Shivalik Solid Waste Management Ltd.(Unit-II), Village Shabowal, PO & Tehsil Nalagarh, Distt. Solan (HP)	600	404.966	Nil	404.966	Nil	Nil	Nil	Nil	Nil
9	Shimla	Enviro Engineers, Village Marhog (Sola Meel), PO Shakrah, Distt. Shimla (HP) C/o Thakur Sadan, Chalonthi, Distt Shimla	200	0.9887	Nil	0.9887	Nil	Nil	Nil	Nil	Nil
Total			910.00	438.55	Nil	433.11	Nil	Nil	Nil	5.44	Nil

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

Name of SPCB/PCC: **HP State Pollution Control Board**

Year: **2018-19**

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
		76	77	78
A	Commonly Recyclable HW			
1	Brass Dross	4	4000	Nil
2	Zinc Bearing Wastes	4	6750	716.64
3	Copper Bearing wastes	--	--	424.23
4	Spent catalyst containing nickel, cadmium, zinc, copper, arsenic, vanadium and cobalt	--	--	--
5	Lead bearing wastes including battery waste	12	80285	10206.14
6	E-waste	--	--	--
7	Paint and ink sludge/ residues	--	--	--
8	Used oil	4	910	433.11
9	Waste oil	--	--	--
10	Aluminium Scrap	1		320.19
11	Zurik SS	--	--	42.29
12	Add row for recycling of hazardous waste (listed under schedule IV) apart from above and provide relevant details required under the respective columns	--	--	--
	Total		91945	12142.60
B	Non captive utilization based on CPCBs SOPs			
1	Recovery of solvents from spent solvents	--	--	--
2	Utilization of APCD Dust/ Residue generated from LD Furnance/ EAF/ Blast Furnance for producing cold briquettes for use in Blast Furnance for production of Pig Iron	--	--	--
3	Utilization of spent catalyst to recover Platinum, Iridium, Osmium, Palladium, Rhodium, Ruthenium, Rhenium, Gold and Silver	--	--	--
4	Utilization of Spent H ₂ SO ₄ generated from Pickling operations for manufacturing Ferrous Sulphate	--	--	--
5	Add row for utilization of hazardous and other wastes and provide relevant details required under the respective columns	--	--	--
	Total			
C	Captive utilization of hazardous and other wastes for which SOP has been prepared by CPCB			
1		--	--	--
2		--	--	--
	Add row for utilization of hazardous and other wastes and provide relevant details required under the respective columns	--	--	--
	Total	--	--	--
D	Pre-processing of hazardous and other waste			
1		--	--	--
2		--	--	--
	Add row for utilization of hazardous and other wastes and provide relevant details required under the respective columns	--	--	--
	Total	Nil	Nil	Nil
E	Co-processing in Cement Plant			
1	Co-Processing	2	2300	3411.66
	Add row for utilization of hazardous and other wastes and provide relevant details required under the respective columns	--	--	--

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

Name of SPCB/PCC: HP State Pollution Control Board

Year: 2018-19

S.No.	Name and Address of the Facility	Type of Hazardous Waste authorized 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 Rama Metal Company, Village Johron, Behind DIC, Industrial Area, KaLa Amb, Distt. Sirmour (HP)	Lead acid batteries plates and other lead scrap/ residue	2500	815.387
2	M/s Radha Krishna Industries, Village Meerpur Gurudwara, KaLa Amb, Distt. Sirmour (HP)	Lead acid battery plates and other lead scrap	10500	5
3	M/s Sri Balaji Smelters, Plot No. 90, Industrial Area Lodhimajra, Tehsil Baddi, Distt. Solan (HP) District Solan (HP)	Lead acid batteries plates/ lead scrap/ ashes/ residues	7000	1324.771
4	M/s Sai Industry, Plot No. 22, Trilokpur Road, IA, Kala Amb, Distt. Sirmour (HP)	Battery Scrap	4800	Nil
5	M/s Ras Industry, Plot No. 22, Trilokpur Road, IA, Kala Amb, Distt. Sirmour (HP)	Battery Scrap	4800	--
6	M/s Neel Kanth Industries, Plot No. 38, Sector-5, Parwanoo, Distt Solan (HP)	Brass dross, Copper dross, Zinc dross, Zinc ash & Zinc skimming	4000	116.6
7	M/s SK Engineers, Village Johron, Trilokpur Road, Kala Amb, Tehsil Nahan, Distt. Sirmour (HP)	Lead acid battery plates & Lead scrap	1200	1252.73
8	M/s Span India Scaffoldings, Village Johron, PO Kala Amb, Tehsil Nahan, Distt. Sirmour (HP)	Lead acid battery plates, Lead scrap	1200	979.5
9	M/s Ekta Enterprises, Plot No. 43, Trilokpur Road, Ind. Area, Kala Amb, Tehsil Nahan, Distt. Sirmour (HP)	Lead acid battery plates, Lead scrap	5000	2508
10	M/s Geon International, Plot No. 65, Bhatoli kalan, Industrial Area, Baddi, Distt. Solan (HP)	Lead acid battery plates, Lead scrap, Lead ash and Lead residue	12000	3744.877
11	M/s Indo Plast (P) Ltd., Plot No. 46-48, Sector-5, Parwanoo, Distt. Solan (HP)	Zinc ash, Zinc Dross/ Zinc Skimming/Zinc Scrap; Brass Ash/Brass Dross/Brass scrap; Copper Ash/Copper Dross/Copper Scrap; Aluminium Ash/ Aluminium Dross/ Aluminium Scrap	6000	910.412
12	M/s Sarika Industries, Plot No. 111, HPSIDC, Industrial Area, Baddi	Lead acid battery plates, Lead scrap/ ashes/residues	5500	--
13	M/s Rama Krishna Industries, Village Jattan, Kala Amb, Distt.Sirmour (HP)	Lead acid battery including grid plates and other lead scrap	27700	0.105
14	M/s K. K. Enterprises, VPO Daslehra, Tehsil Jhandutta, Distt.Bilaspur (HP)	Lead acid battery plates and other lead scrap	35	Nil
15	M/s Viown MetTube (P) Ltd., Plot No. 101, EPIP, Phase-II, Village Thana, Tehsil Nalagarh, Distt. Solan (HP)	Brass Dross and Copper Dross	2300	Nil
16	M/s KDS Enterprises, Plot No. 48, Sector-5, Parwanoo, Distt. Solan (HP)	Zinc Ingot, Brass Ingot, Copper Ingot, Aluminium Ingot, Tin Ingot & their respective ashes	6000	Nil
17	M/s AP Products, Village Nagal, Suketi Road, Kala Amb, Tehsil Nahan, Distt. Sirmour	Lead acid battery plates and other lead scrap	100	--
18	M/s Royal Green Agro Chemicals, Plot No 13-C-2, Industrial area Gagret, Distt. Una	Zn Ash and residues including Zn Alloys	750	52.11
	Total		101385.00	11709.49

B	List of Authorized Utilizers (under Rule 9) of hazardous and other wastes			
1	Him Trading Co.	Washing of Drums	259.2	129.13
2	M Rauf	Washing of Drums	252	207.41
3	Industrial Waste Management	Washing of Drums	324	16.50
4	Enviro Enterprises	Washing of Drums	259.2	115.97
5	Neha Enterprises	Washing of Drums	388.8	57.21
6	AK Enterprises	Washing of Drums	75.6	74.47
7	Two Star Trading	Washing of Drums	194.4	202.47
8	Balaji Trading	Washing of Drums	81	264.02
9	Gulshan Trading Co.	Washing of Drums	--	2.55
10	Super Trading	Washing of Drums	194.4	52.99
11	Kamal Enterprises	Washing of Drums	388.8	380.71
12	Lucky Enterprises	Washing of Drums	90	116.35
13	KK Enterprises	Washing of Drums	194.4	168.75
14	Chanshal Hill Traders	Washing of Drums	162	256.98
15	Shiwalik Solid Waste Management Ltd	Washing of Drums	259.2	250.2
	Total		3123.00	2295.70
C	List of Authorized Utilizers (under captive utilization) of hazardous and Other wastes			
1	--	--	--	--
2	--	--	--	--
	Total			
D	List of Authorized Pre-processing of hazardous and other wastes			
1	--	--	--	--
2	--	--	--	--
	Total			
E	List of Authorized Co-processors of hazardous and Other wastes			
1	M/s ACC Ltd, Gaggal Cement Works, PO Barmana District Bilaspur	Co-processing	--	178.54
2	M/s Ambuja Cement Ltd. (Suli Unit) PO Darlaghat District Solan	Co-processing	--	3233.12
	Total	--	--	3411.66

Format D1-A: Detail of disposal of Hazardous waste in Common TSDF (s)

Name of SPCB/PCC: HP State Pollution Control Board

Year: 2018-19

S.No.	Name and Address of the TSDF	Quantity in stock at the beginning of the year (MT)		Quantity of Hazardous Waste Received (MT)		Quantity of Hazardous Waste Disposed (MT)		Quantity in the Stock at the end of the year (MT)		Cummulative HW disposed by the end of financial year (MT)		Capacity		
		Landfillable	Incinerable	For Landfill	For incineration	For Landfill	For incineration	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	95
1	M/s Shivalik Solid Waste Management Ltd., Village Majra, PO Dabhota, Tehsil Nalagarh, Distt. Solan (HP) 174101	84.64	12.87	21619.47	Nil	18264.03	Nil	Nil	119.48	155590.00	Nil	Nil	Nil	50000

Format D3: Detail of Common TSDF (s) involved in disposal of Domestic Hazardous waste and Fluorescent and other Mercury containing lamps

Name of SPCB/PCC: HP State Pollution Control Board

Year: 2018-19

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 which 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 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	M/s Shivalik Solid Waste Management Ltd., Village Majra, PO Dabhota, Tehsil Nalagarh, Distt. Solan (HP) 174101	--	--	List Attached	List Attached	Nil	List Attached	Nil	Nil	Nil	Nil
Total		--	--	--	--	Nil	--	Nil	Nil	Nil	Nil