

Master copy 120A.

HARYANA STATE POLLUTION CONTROL BOARD



SUPPLEMENTARY **AGENDA**

For the

176th meeting of the Board

to be held on 19.12.2016 at 11.30 A.M.

PANCHKULA



HARYANA STATE POLLUTION CONTROL BOARD
C-11, SECTOR 6, PANCHKULA.
Ph. No. 0172-2577870-873

INDEX

Supplementary Agenda Items for the 176th meeting of the Board to be held on 19.12.2016 at 11.30 A.M. under the Chairmanship of Sh. Shrikant Walgad, IAS, Chairman of the Board in the Conference Room of the Haryana State Pollution Control Board, C-11, Sector-6, Panchkula are as under:-

Item No.	Subject	Page
176.14 (S)	Approval for installation of Ten New Continues Ambient Air Quality Monitoring Station (CAAQMS) at Ambala, Bhiwani, Fatehabad, Hisar, Jind, Kurukshetra, Mahendergarh, Mewat, Palwal and Sirsa.	14/1/105
176.15 (S)	Remote Sensing Study for area estimation of burning of Rice and Wheat Stubble in 10 major growing districts of Haryana for the year 2016-17.	15/1/106 - 15/3/108
176.16 (S)	Budget Estimate of Haryana State Pollution Control Board for the Financial Year 2017-2018.	16/1/109 - 16/30/139
176.17 (S)	Procedure for obtaining the authorization for recycling of Hazardous Waste specified in Schedule-IV of the Hazardous & Other Waste (M&TM) Rules, 2016.	17/1/140 - 17/74/214
176.18 (S)	Procedure for obtaining the authorization for actual users of hazardous & other waste including for utilization of hazardous & other waste for which Standard Operating Procedure (SoPs)/Guidelines were issued by CPCB except for recycler of hazardous waste listed in Schedule-IV of the Hazardous & Other Waste (M&TM) Rules, 2016.	18/1/215 - 18/75/289
176.19 (S)	Procedure for obtaining the authorization by the trader units desirous of import of other wastes (* *) as listed in Part-D of Schedule-III of Hazardous & Other Waste (M&TM) Rules, 2016, on behalf of actual users.	19/1/290 - 19/76/365
176.20 (S)	Amendment in the fee structure of Health Care Facilities / Establishment of by Government.	20/1/366 - 20/14/379
176.21 (S)	Promotion of Sh. Bhupinder Singh Chahal, Assistant Environmental Engineer to the post of Environmental Engineer.	21/1/380 - 21/9/388
176.22 (S)	Relaxation in experience, for promotion of Senior Scientific Assistant to the post of Scientist 'B'.	22/1/389 - 22/2/390
176.23 (S)	Nomination of officers of the Board of Haryana Enterprise Promotion Centre (HEPC) to grant clearances / sanctions in addition to their own duties.	23/1/391 - 23/20/410

Agenda Item No. 176.14 (S)

Approval for installation of Ten New Continuous Ambient Air Quality Monitoring Station (CAAQMS) at Ambala, Bhiwani, Fatehabad, Hisar, Jind, Kurukshetra, Mahendragarh, Mewat, Palwal and Sirsa

Haryana State Pollution Control Board installed a continuous Ambient Air Quality Monitoring Stations (CAAQMS) at Faridabad on 50:50 fund sharing basis with Central Pollution Control Board in the Year 2010 in District Faridabad for Air Quality Management. Thereafter, ten more CAAQMS were installed by the Board at Faridabad, Gurgaon, Rohtak and Panchkula district head quarters in the year 2012 of its own. Date of all these four stations is displayed through display boards at prominent sites in the respective cities, in real time transmitting to the website/server of Central Pollution Control Board and Haryana State Pollution Control Board.

Board vide agenda item no. 173.25 has approved that the CAAQM stations may be installed at the Cities namely (1) Panipat (2) Sonapat (3) Dharuhera (Rewari). Further, Board vide agenda item no. 174.7 has approved that the stations may be installed at the Cities namely (1) Bahadurgarh (2) Karnal (3) Kaithal (4) Yamuna Nagar (5) One additional Station in Manesar (Gurgaon) (6) One additional Station in Sector- 55 and 56 Faridabad.

The board may install 10 no. of additional CAAQMS in addition to already installed (04 no.) and already sanctioned (09 no.) at the left over District of Haryana namely Ambala, Bhiwani, Fatehabad, Hisar, Jind, Kurukshetra, Mahendragarh, Mewat, Palwal and Sirsa, in view of issues of Air Pollution discussed in various meetings held at CPCB and MoEF&CC and various directions passed by Hon'ble High Court, Hon'ble NGT and Hon'ble Supreme Court. The cost of single unit of CAAQMS station will be approximately 1.25 crores.

The matter is placed before the Board for consideration and approval of the above said proposal please.

Agenda Item No. 176.15 (5)

Remote Sensing Study for area estimation of burning of Rice and Wheat Stubble in 10 major growing districts of Haryana for the year 2016-17.

It is submitted that Haryana State Pollution Control Board got conducted remote sensing study through HARSAC titled 'Area estimation of burning of paddy straw in 10 major paddy growing districts of Haryana' during October -November, 2014 and October - November, 2015 i.e. paddy harvesting season at a cost of Rs. 11.57 Lacs and Rs. 11.57 Lacs for the year 2014 + 2015 after getting the proposal approved from the Board vide resolution No. 171.12 in its 171st meeting held on 20.05.2014.

It was decided to conduct the remote sensing study for the year 2016 for the burning of Rice & Wheat straw in 10 districts from HARSAC. Accordingly HARSAC was requested to submit the invoice for conducting the remote sensing study. After examining the invoice submitted by the HARSAC, work regarding Remote sensing based study during paddy season for estimation of area under the burning of paddy straw for the year 2016 was assigned to HARSAC for 10 Major growing districts of Haryana i.e. Fatehabad, Sirsa, Sonapat, Karnal, Panipat, Kurukshetra, kaithal, Ambala, Yamuna Nagar and Jind and also during wheat harvesting season for wheat stubble area study for the year 2017 for the 10 major districts i.e. Fatehabad, Sirsa, Sonipat, Karnal, Kurukshetra, Kaithal, Jind, Bhiwani, Jhajjar and Hisar on the rates quoted by them i.e. Rs. 15 Lacs vide their letter dated 31.05.2016 and also clarification vide letter dated 15.12.2016 with the following conditions:-

1. Remote sensing based study during paddy season for estimation of area under the burning of paddy straw for the year 2016 for 10 Major growing districts of Haryana i.e. Fatehabad, Sirsa, Sonipat, Karnal, Panipat, Kurukshetra, kaithal, Ambala, Yamuna Nagar and Jind.
2. Remote sensing based study during wheat harvesting season for wheat stubble area study for the year 2017 for the 10 major districts i.e. Fatehabad, Sirsa, Sonipat, Karnal, Kurukshetra, Kaithal, Jind, Bhiwani, Jhajjar and Hisar.

Sr. No.	Items	Cost in Lacs for the year 2016-17 for both season of Rice & Wheat Stubble.
1.	Digital Data Analysis	2.00

2.	Ground Truth Collection & Travel	2.00
3.	Map Generation & Documentation	1.00
4.	Contingency / Miscellaneous Expenses	1.00
5.	4 Contractual Project Assistants for 8 month	7.04
6.	Sub Total	13.04
7.	Over head/Institutional Charges	1.96
	TOTAL	15.00
		(Rs. Fifteen Lacs only)

- ✓ Unspent balance due to HSPCB for the previous years with ----- Rs. 3.65 Lacs, HARSAC to be forwarded for current year.
- ✓ Amount to be released i.e Rs. 15.00 Lacs - 3.65 Lacs = Rs.11.35 Lacs (Rs. Eleven Lacs & thirty five thousand only).

Conditions:-

1. Rice stubble burning area would be estimated during the year 2016 and the final report will be submitted by the end of December, 2016.
2. Wheat Stubble burning area's would be estimated during the year 2017 and the final report will be submitted by June, 2017.
3. For Rice Stubble burning area, the study will be conducted for the Fatehabad, Sirsa, Sonapat, Karnal, Panipat, Kurukshetra, kaithal, Ambala, Yamuna Nagar and Jind districts.
4. For Wheat Stubble burning area's the study will be conducted for the districts Fatehabad, Sirsa, Sonipat, Karnal, Panipat, Kurukshetra, kaithal, Bhiwani, Jhajjar and Hisar districts.
5. The 50 % payment will be released as advance amount to meet expenditure towards ground truth collection, salary of manpower and other miscellaneous expenditures, before the commencement of the study and the remaining amount will be paid after receipt of the final reports.

In view of the request of HARSAC vide letter no. HARSAC/2016/2795 dated 17.10.2016, an amount of Rs.5.68 Lacs has been released to the HARSAC as the cost of work for the current year to meet the necessary expenditure towards ground truth collection and hiring of project staff etc. HARSAC has submitted status report of the study on Area Estimation of Burning of Rice Stubble in ten major growing districts of Haryana based on the temporal AWIFS sensor data analyzed for the period between October 02 to November 19, 2016. The HARSAC has been asked to submit final report as per terms and conditions of HSPCB

The matter is placed before the Board of Directors for ex-post facto sanction / approval please

Agenda item No. 176, 16(S)

**Budget Estimate of Haryana
State Pollution Control Board for
the Financial Year 2017-2018.**

As required under section 38 of the Water (Prevention and Control of Pollution) Act, 1974, Board shall during the financial year, prepare its Budget in respect of the ensuing financial year, showing the estimated receipt and expenditure and shall submit the same to the State Govt.

The State Pollution Control Boards all over the country State Pollution Control Boards are striving to organize measures to achieve the objective of pollution free environment. The Haryana State Pollution Control Board is also charged with the responsibility of prevention and control of Pollution of Water, Air, Noise, Hazardous Waste, Bio-Medical Waste, Solid Waste, Plastic Carry Bags, E-waste, Battery Rules etc. in the State. Therefore, attempt has been made to present the Budget to achieve the overall objectives as enshrined in the Water, Air, Noise Act, Hazardous Waste Management Act and Bio-Medical Waste Act.

Accordingly, the Budget Estimate for the year 2017-18 has been prepared which comes to Rs. 11825.00 lacs against the Budget provision of Rs. 10585.00 lacs for the year 2016-17. The detail of Receipt & Expenditure is placed below:-

Submitted for approval and consideration of the Board, please.

Subject:- Budget Estimate of Haryana State Pollution Control Board for the Financial Year 2017-2018.

As required under section 38 of the Water (Prevention and Control of Pollution) Act, 1974, Board shall prepare its Budget in respect of the ensuing financial year, showing the estimated receipt and expenditure and shall submit the same to the State Govt.

The State Pollution Control Boards all over the country State Pollution Control Boards are striving to organize measures to achieve the objective of pollution free environment. The Haryana State Pollution Control Board is also charged with the responsibility of prevention and control of Pollution of Water, Air, Noise, Hazardous Waste, Bio-Medical Waste, Solid Waste, Plastic Carry Bags, E-waste, Battery Rules etc. in the State. Therefore, attempt has been made to present the Budget to achieve the overall objectives as enshrined in the Water, Air, Noise Act, Hazardous Waste Management Act and Bio-Medical Waste Act.

RECEIPT HEAD :-

Estimated Receipts during the year 2017-2018 will be Rs.11825 lacs against the estimated Receipts of Rs. 10585 lacs of the previous year 2016-17. Excess expenditure Rs. 3885.00 lacs will be met out from the surplus fund lying with Board. The Receipts on account of Consent Fee (Water & Air) is estimated to Rs. 4010.00 lacs against the provision of Rs.2970.00 lacs during the year 2016-17. Similarly, the receipt on account of Appeal/Authorization/Public Hearing/NOC Fee is anticipated to Rs.830.00 lac against the provision of Rs. 880.00 lacs during the year 2016-17 and Cess fee is estimated (to be reimbursement by Govt. of India) to Rs.625.00 lac for the financial year 2017-18 against provision of Rs.680.00 lac during the year 2016-2017. The overall increase in the above said fees will be due to covering more new Industries under Pollution Acts in the State. The details of estimated receipts and expenditure are given as per Annexure - 'A' & 'B'.

Note:- A separate proposal regarding strengthening of the HSPCB by creation of additional Offices/posts and other related office infrastructure has been approved by the Board and is under active consideration of State Govt. In addition, a proposal for strengthening of laboratories infrastructure was approved by the Board in its meeting held on 07.09.2009, which has already been sent to Central Pollution Control Board for financial support.

EXPENDITURE HEAD:

A provision of Rs. 11825.00 lacs has been made under the expenditure head for the year 2017-18 against the expenditure of Rs.10585.00 lacs for the year 2016-17.

1. Under Head Salaries: - An amount of Rs.2173.00 lacs has been provided during this year as against provision of Rs.2040.00 lacs during the year 2016-17.
2. Since the office building at Sonapat and a residential complex for Board's employees at Panchkula is planned to be constructed, and plot for Panipat Laboratory is to be purchased during this year therefore an amount of Rs.900 lac has been provided in the Budget for the year 2017-18. The detail is at Annexure 'B'.

**Budget Estimate of Haryana State
Pollution Control Board for the
Financial Year 2017-18**

<u>SUMMARY</u>	Provision for the year 2016-17 (Rs. In Lacs)	Proposed for the year 2017-18 (Rs. In Lacs)
<u>ESTIMATE OF RECEIPTS :</u>		
1 Board Receipts.	5100.00	7140.00
2 Cess Receipts (from G.O.I.)	680.00	625.00
3 Grant-in Aid from CPCB	25.00	25.00
4 Grant-in-Aid from Central Govt.	150.00	150.00
5 Shortage in Receipts	3630.00	3885.00
	<u>10585.00</u>	<u>11825.00</u>
<u>ESTIMATE OF EXPENDITURE :</u>		
1 Salaries	2040.00	2173.00
2 Office Maintenance	3458.00	4673.00
3 Loans & Advances	83.00	84.00
4 Financial Assistance for Environmental Improvement Project water & air quality Monitoring ,Development/Extension Activities/Construction of Office building & Environment Awareness	5004.00	4895.00
Total	<u>10585.00</u>	<u>11825.00</u>

ANNEXURE - 'A'

FORM 'F'

(See Rule 24(3))

Head of Account (Receipts)

Sr. Head of Account No.	Actual Receipts 2015-16	Budget estimate for the Year 2016-17 (Plan & Non-Plan)	Actual Receipt: 2016-17 4/2016 TO 9/2016	Proposed estimate for the Year 2017-18	
1	2	3	4. (Rs.in Lacs)	5	6
RECEIPTS					
1	Samples Testing Fee	228.54	250.00	26.03	250.00
2	Consent Fee (Water)	1932.17	1600.00	673.26	2000.00
3	Consent Fee (Air)	2008.65	1370.00	282.61	2010.00
4	NOC Fees	275.30	300.00	94.93	300.00
5	Public Hearing	22.80	30.00	0.00	30.00
6	Authorisation fee/Recognition fee/Apeal fee/Right to Information fee/Misc. receipt	513.36	550.00	65.92	550.00
7	Cess Receipts (from G.O.I.)	365.43	680.00	0.00	625.00
8	Interest on deposits	2352.46	2000.00	1171.72	2000.00
9	Grant-in-Aid from Central Pollution Control Board Solid waste/NAMP	0.66	25.00	0.00	25.00
10	Grant-in-Aid (Eco Club) From Govt. of India/State Govt.	100.00	150.00	0.00	150.00
11	Grant -in-Aid from State Govt. Recycling Facility Mercury Contamination from CFL/FTLS.	50.00	0.00	0.00	0.00
TOTAL		7849.37	6955.00	2314.47	7940.00

ANNEXURE - 'B'

FORM 'F'
(See Rule 24(3)(i))
Budget and Account Heads
Administration
Head of Account(Expenditure)

Sr.No.	Head of Account	Actual Expenditure 2015-16	Provision For the year 2016-17 (Plan & Non-Plan)	Actual Expenditure 2016-17 i.e. (6 months) 4/2016 to 9/2016	Proposed for the year 2017-18
(Rs.in Lacs)					
EXPENDITURE					
(A)	SALARIES				
1	<u>Pay and Allowances</u>	1201.51		702.39	
	(i) Technical/Scientific Staff		1023.00		1034.00
	(ii) Ministerial Staff		872.00		1004.00
2	<u>Medical Expenses</u>	40.08		20.65	40.00
	(i) Technical/Scientific Staff		35.00		45.00
	(ii) Ministerial Staff		40.00		
3	<u>Travelling Allowance</u>	9.37		4.74	
	(i) Technical/Scientific Staff		40.00		30.00
	(ii) Ministerial Staff		30.00		20.00
	Sub Total =	<u>1250.96</u>	<u>2040.00</u>	<u>727.78</u>	<u>2173.00</u>
(B)	OFFICE MAINTENANCE				
1	Office Expenses	306.54	510.00	143.83	510.00
2	Legal Expenses	59.96	50.00	23.65	65.00
3	Furniture and fixture	2.72	25.00	0.85	25.00
4	Machinery and Equipments	8.94	60.00	9.47	60.00
5	Computerisation of Office	16.22	50.00	40.45	50.00
6	Purchase of Vehicles	10.96	55.00	0.00	55.00
7	Income Tax	2000.62	0.00	0.00	1200.00
(C)	Strengthening of existing laboratory and setting up of additional laboratory/Library Books	63.75	2708.00	39.52	2708.00
(D)	Water & Air Quality Monitoring/Lab Equip Material/Lab Exp.	0.00	400.00	0.00	400.00
(E)	Development /Extension Activities	11.57	320.00	0.00	320.00

(F)	Financial Assistance for Environmental Improvement Projects.	53.75	3209.00	0.00	3100.00
(G)	Construction/Purchase of Office Building and Residential Complex.	9.06	900.00	0.00	900.00
(H)	Eco Clubs/Env. Awareness				
	I. Govt. of India/State govt.	100.00	150.00	0.00	150.00
	II. HSPCB	16.72	25.00	6.31	25.00
	Sub Total =	<u>2660.81</u>	<u>8462.00</u>	<u>264.08</u>	<u>9568.00</u>
(I)	<u>LOANS AND ADVANCES</u>				
	Loans and Advances to Staff	12.76	83.00	5.09	84.00
	Sub Total =	<u>12.76</u>	<u>83.00</u>	<u>5.09</u>	<u>84.00</u>
	Grand Total =	<u>3924.53</u>	<u>10585.00</u>	<u>996.95</u>	<u>11825.00</u>

FORM 'F'
 [See Rule 24(3)(ii)]
Budget and Account Heads
Administration
Head of Account(Expenditure)

Sr. No.	Head of Account	Actual Expenditure 2015-16	Budget Provision For the year 2016-17	Actual Expenditure 2016-17 i.e. 4/2016 to 9/2016 (Rs. In lacs)	Proposed for the year 2017-18
1	2	3	4	5	6
(a)	Pay and Allowances	1201.51		702.39	
	(i) Technical/Scientific Staff		1023.00		1034.00
	(ii) Ministerial Staff		872.00		1004.00
(b)	Medical Expenses	40.08		20.65	
	(i) Technical/Scientific Staff		35.00		40.00
	(ii) Ministerial Staff		40.00		45.00
(c)	Travelling Allowance	9.37		4.74	
	(i) Technical/Scientific Staff		40.00		30.00
	(ii) Ministerial Staff		30.00		20.00
	Sub Total =	1250.96	2040.00	727.78	2173.00
2	Office Expenses				
	a) Rent, Rates & Taxes	26.02	60.00	10.86	60.00
	b) Water & Electricity	53.63	72.00	30.30	72.00
	c) Postage & Telegram	6.73	12.00	4.15	12.00
	d) Telephone Charges	8.09	20.00	4.27	20.00
	e) Printing & Stationery	11.52	25.00	4.43	25.00
	f) Liveries	0.08	1.00	0.00	1.00
	g) News Paper & Magazines/ Library Books	3.09	15.00	6.10	15.00
	h) Insurance	3.32	10.00	0.71	10.00
	i) Hospitality Expenses	4.75	15.00	1.23	15.00
	j) Professional Charges	7.72	20.00	7.04	20.00
	k) POL for Vehicles	40.19	75.00	18.06	75.00
	l) R & M of Vehicles	11.04	40.00	6.06	40.00
	m) Repair & Maintenance of office Building	47.94	80.00	8.47	80.00
	n) Repair & Maint. of others	8.05	15.00	1.79	15.00
	o) Horticulture	0.00	5.00	0.00	5.00
	p) Misc. office expenses	21.51	45.00	9.10	45.00
	q) Legal Expenses	59.96	50.00	23.65	65.00
	r) Furniture and Fixture	2.72	25.00	0.85	25.00

s) Machinery & Equipments	8.94	60.00	9.47	60.00
t) Income Tax	2000.62			1200.00
u) Computerisation of Office	16.22	50.00	40.45	50.00
v) Purchase of Vehicles	10.96	55.00	0.00	55.00
3 Strengthening of existing laboratory and setting up of additional laboratory				
	63.75	2708.00	39.50	2708.00
	0.00	400.00	0.00	400.00
4 Water & Air Quality Monitoring (Online AAQ Station)				
5 Development / Extension Activities				
(a) Advertisement & Publicity	52.61	90.00	28.78	90.00
(b) Seminars/Workshops/Training	0.00	30.00	2.50	30.00
(c) Research & Development Project, Reports and Studies	11.57	200.00	0.00	200.00
6 Financial Assistance for Environmental Improvement Projects				
(i) Installation of Sewage Treatment Plants and Common Effluent Treatment Plant	53.75	3100.00	0.00	3100.00
(ii) Development of Common Bio-medical Waste Treatment & disposal facility	0.00	109.00	0.00	0.00
Sub Total =	2534.78	7387.00	257.77	8493.00
7 Construction/Purchase of Office Building and Residential Complex.	9.06	900.00	0.00	900.00
8 Eco Clubs/Env. Awareness				
I Govt. of India/State Govt.	100.00	150.00	0.00	150.00
II HSPCB	16.72	25.00	6.31	25.00
Sub Total	125.78	1075.00	6.31	1075.00
9 <u>LOANS AND ADVANCES</u> (Loans to Staff)				
a) House Building Advance	3.91	25.00	3.44	25.00
b) Car/Scooter/Moped/Cycle/Computer Advance.	4.29	25.00	0.00	25.00
c) Marriage Advance	2.41	25.00	0.00	25.00
d) Wheat Advance	1.80	5.00	1.65	5.00
e) Festival Advance.	0.35	3.00	0.00	4.00
Sub Total =	12.76	83.00	5.09	84.00
Grand Total	3924.28	10585.00	996.95	11825.00

Explanatory notes of various heads are enclosed.

Explanatory Note

Scheme for strengthening of existing Laboratories and setting up of additional Laboratories

The Board is having proposal for strengthening of existing Laboratories at Panchkula, Hisar, Faridabad and Gurgaon and setting up additional Laboratories at Panipat. This Scheme includes installation of Real Time Continuous Ambient Air Quality Monitoring Station at Panipat, Dharuhera, Sonapat, Bahadurgarh, Karnal, Kaithal, Yamuna Nagar, One additional station at Gurgaon at Manesar, one additional Station at Faridabad near Sector-55 and 56. Budget provisions for procurement 6nos. of CAAQM Station at above mentioned locations need rs. 17,50,00,000/- approx. (Rupees Seventeen Crore Fifty Lacs.)

HSPCB proposes to purchase equipments/Instruments for existing Laboratories at Panchkula, Hisar, Faridabad and Gurgaon during the year 2017-18 and budget provision of Rs. 9,57,21,400/- approx. (Say 9.58 Crore) may be made accordingly. Detail of equipment/Instrument enclosed.

Instrument required for collecting the samples in the Field by the ROs.

Sr.No.	Name of the equipment	Total cost of each Instruments	Number of equipments required	Total cost
1	Stack Monitoring Kit	200000	4	800000
2	High Volume sampler for process emission	61000	17	1037000
3.	Repairable Dust Sampler PM10	190000	23	4370000
4	Ambient Air Monitoring Kit PM2.5	500000	12	6000000
5.	Noise meter (decibel meter) with Accessories & Printer	120000	12	14400000
Total				26607000

Emd @ 2 % of total cost=436140/-

Details of the sophisticated instruments required for testing of samples by the Board Laboratories.

Sr.No.	Name of the equipment	Total cost of each Instruments	Number equipments required	Total cost
1	Gas Chromatograph Mass spectrophotometer (GCMS)	12000000	4	48000000
2.	Atomic Absorption Spectrophotometer	3000000	3	9000000
Total				57000000

Emd @ 2 % of total cost=436140/-

General Instrument required for testing of samples by the Laboratories.

Sr.No.	Name of the equipment	Total cost of each Instruments	Number equipments required	Total cost
1.	Electronic balance	100000	5	500000
2.	Ion Analyser with Fluoride, Nitrate, Nitrite, Cyanide and ammonia Electrodes	500000	4	2000000
3.	COD Assembly (Digester)	50000	4	200000
4.	Autoclave	200000	4	800000
5.	Bottle Top Dispenser 0.5 ml to 5.0 ml	9300	4	37200
6.	Bottle Top Dispenser 1.0 ml to 10.0 ml	9300	4	37200
7.	Hot Air Oven	45000	4	180000
8.	U.V Visible Spectrophotometer	170000	4	680000
9.	Ultrapure Water System	500000	4	2000000
10.	BOD Incubator	60000	4	240000
11.	Microwave Digestion System	1300000	4	5200000
12.	Magnetic Stirrer	15000	4	60000
13.	Hot Plate digital control	15000	4	60000
14.	Flame Photometer	3000	4	12000
Total				12114400

Emd @ 2 % of total cost= 242288 -

	26607000
	57000000
	12114400
Grand Total	95721400 approx.

Scheme of setting up of Water and Air Quality Monitoring Stations.

Central Pollution Control Board has sanctioned 30 new Air Quality Monitoring Stations for Haryana under National Air Monitoring Programme (NAMP). These Stations will be set up at Jagadhri (one), Rohtak (one), Panipat (Two), Rewari (Three), Sonapat (Three), Karnal (one), Palwal (one), Gurgaon (Three), Bhiwani (One), Sirsa (One), Panchkula Urban Estate (One), Ambala (one), Jind (One), Thanesar (One), Bahadurgarh (one), Kaithal (One), Ambala Sadar (One), Faridabad (One), Yamunanagar (Two) and Dharuhera (Three). Central Pollution Control Board has already released grant of Rs. 1.18 Crore (Rupees One Crore Eighteen Lac Only) as capital cost of the installation of 30 stations in above mentioned districts. These stations will be set up during the year 2017-18 by the Haryana State Pollution Control Board. Instruments/Equipment for these Air Quality Monitoring Stations are being purchased and staff shall be hired on contract basis. In addition to above Ambient Air Quality Stations, the Board shall set up Water Quality Monitoring Stations for monitoring the quality of river waters. Thus a total expenditure is expected to be incurred in Rs. 4.00 Crore

Total Budget requirement 17.5 Crore + 9.58 Crore + 4.00 Crore

= Total 31.08 Crore approx.



Dr. P.K.M.K Das
Scientist 'C'

Explanatory NoteDevelopment / Extension Activities**(a) Advertisement and Publicity**

The Board has incurred Rs. 52.61 lacs during the year 2016-17 and for the year 2017-18 Rs. 90 lac is proposed to be incurred for the purpose of advertisement and publicity to create awareness among the general public on the subjects of abatement of pollution and betterment of environment.

The State Govt. has issued notification dated 1.4.2010 to impose complete ban on plastic carry bags and Govt. of India has issued Plastic Waste Management Rules, 2011. The provisions of these notifications are required to be given wide publicity through print and electronic media. Further the Board has framed a scheme for institution of awards for best performing blocks for non-burning of wheat stubble/paddy straw for the financial year 2017-18. This scheme needs to be given wide publicity through Radio Jingles, Doordarshan etc. Besides this, Board is contemplating to celebrate all the important days of the environment calendar like World Earth Day, World Environment Day, World Ozone Day etc.

Therefore, the amount of funds required shall be more than the funds incurred during the previous years and the provision of an amount of Rs. 90 lac need to be made in the budget for the year 2017-18.

(b) Seminar, Workshop & Training

The Board is deputing its officers to attend various seminars / workshops / trainings in India and abroad on the subjects of pollution control and environment. The Board incurred Rs. 0.25 lacs during the year 2015-16 and Rs.2.50 lacs during 2016-17.

The Board proposes to depute its officers to attend various seminars/ training programs during the year 2017-18.

Therefore, provision of an amount of Rs. 30 lac is to be made in the budget for the year 2017-18 for imparting training to the officers of the Board and other stake holders working in the field of pollution control & environment.

(c) **Research & Development**

The Board proposes to get research & development studies done in the field of pollution control and environment management. Some of the projects undertaken in the past are health study for the city of Faridabad, remote-sensing study of degradation of environment in the Aravali hills and river bed of Yamuna, pollution abatement action plan for critically polluted towns of Faridabad and Panipat etc.

The Board is contemplating to get these studies done through professional organizations/institutes like NEERI, TERI, GJU, Hisar, Kurukshetra University etc.

Therefore, a provision of Rs. 200 Lacs is to be made in the budget for the year 2017-18 for undertaking research & development activities in the field of pollution control and environment management.

Construction/Purchase of Office Building & Residential Complex

Board has approved the proposal of the construction of residential complex vide Agenda Item No. 130.7 for the employees of the Board in Sector-23, Panchkula. The HUDA has already allotted 1.5 acres of land for the construction of residential complex. The administrative approval has already been granted by the State Government for the construction of the complex. Similarly, Board is having plot at Sonipat for the construction of office building. The construction work of the office building at Sonipat and for residential complex at Panchkula will be taken up in the year 2017-18. A provision of Rs. 9.00 Crore has been ear-marked for the construction of these buildings for the year 2017-18. The construction will be undertaken by following proper tendering procedure.

Scheme of Eco-Club

Government of India launched National Environment Programme for public awareness in 1986 with a view to educate children/students. National Green Corps (NGCs) was launched in the year 2001 by the Ministry of Environment & Forests, Government of India to create awareness amongst children in respect of health and environment. NGCs programme is being implemented through Eco-clubs. These Eco-clubs are functioning in the State of Haryana since 2001-02. There are total of about 5250 Eco-clubs in 21 Districts in the State of Haryana. Each eco-club is having 50 students with one eco-club in-charge teacher for each school and two master trainers in each district. The main objects of the eco-clubs are to create awareness amongst the children and public at large for the preservation of environment. Ministry of Environment & Forests, Government of India is providing grant-in-aid amounting to Rs. 2500/- per year per school for 5250 eco-clubs in the State.

During the year 2015-16 an amount of Rs100.00 lacs has been received in the month of 11/2015 towards Eco-Clubs from the Govt., therefore a provision of Rs.150.00 lacs has been made for the year 2017-18.

FORM-E (PART-1)

(SEE RULE 24(1))

HARYANA STATE POLLUTION CONTROL BOARD

Detailed Budget Estimate for the year 2017-18

ADMINISTRATION

(Expenditure)

Head of Accounts	Actual for the past two years 2014-15	2015-16	Budget estimate for the year 2016-17	Budget estimate FOR YEAR 2014-15 & 2015-16 10/2014 to 3/15	Actual of last six months 10/2015 to 3/16	Actual of six months of current year i.e. 2015-17 (04/16 to 09/16)	Revised estimate for the current year 2015-17 (Plan & Non plan)	Budget estimate for the next year 2017-18	Variation between Col. 8 & 9 (Rs. in lacs)	Explanation for the col. No. 10 & 11	
1	2	3	4	5	6	7	8	9	10	11	12
(A) SALARIES											
1. Pay & Allowances:	1138.57	1201.51	1023.00	535.68	690.16	702.39	1023.00	1034.00	0.00	11.00	
(i) Technical/Scientific Staff			872.00				872.00	1004.00	0.00	132.00	
(ii) Ministerial Staff											
2. Medical Expenses:	40.80	40.08	35.00	26.42	15.42	20.65	35.00	40.00	0.00	5.00	
(i) Technical/Scientific Staff			40.00				40.00	45.00	0.00	5.00	
(ii) Ministerial Staff											
3. Travelling Expenses:	7.03	9.37	40.00	2.63	4.55	4.74	40.00	30.00	0.00	-10.00	
(i) Technical/Scientific Staff			30.00				30.00	20.00	0.00	-10.00	
(ii) Ministerial Staff			2040.00	564.73	710.13	727.78	2040.00	2173.00	0.00	133.00	
Sub Total =	1186.40	1250.96									
(B) OFFICE MAINTENANCE											
1. Office Expenses	315.25	306.29	510.00	434.59	146.02	143.83	510.00	510.00	0.00	0.00	
2. Legal Expenses	32.02	59.96	50.00	11.88	38.25	23.65	50.00	65.00	0.00	15.00	
3. Furniture & Fixture Equipments	4.09	2.72	25.00	0.95	1.37	0.85	25.00	25.00	0.00	0.00	
	9.51	8.94	60.00	6.66	6.30	9.47	60.00	60.00	0.00	0.00	
5. Computerisation of Office.	29.74	16.22	50.00	12.52	6.87	40.45	50.00	50.00	0.00	0.00	

6. Purchase of Vehicles	5.73	10.95	55.00	5.31	10.51	0.00	55.00	55.00	0.00	0.00
7. Industrial Pollution Control										
Lab Equip / Material / Expenses.	35.47	63.75	2708.00	18.85	43.03	39.52	2708.00	2708.00	0.00	0.00
8. Water Air Quality Monitoring	0.00	0.00	400.00	0.00	0.00	0.00	400.00	400.00	0.00	0.00
9. Development Extension Activities	10.03	11.57	320.00	0.00	0.00	0.00	320.00	320.00	0.00	0.00
Sub Total =	441.84	480.41	4178.00	490.16	252.35	257.77	4178.00	4193.00	0.00	15.00
Financial Assistance for Environmental Improvement Project in Kurai Area	0.00	53.75	3209.00	0.00	53.75	0.00	3209.00	3100.00	0.00	-109.00
Building Cost of Land	0.00	9.06	900.00	0.00	1.00	0.00	900.00	900.00	0.00	0.00
Eco Clubs/Env. Awareness										
1. Govt. of India/State Govt.	100.00	100.00	150.00	100.00	100.00	0.00	150.00	150.00	0.00	0.00
2. HSPCB	8.71	16.72	25.00	5.69	1.73	6.31	25.00	25.00	0.00	0.00
(C) LOANS & ADVANCES										
1. Loans to Staff	16.26	12.76	83.00	6.12	3.21	5.09	83.00	84.00	0.00	1.00
Sub Total =	124.97	192.29	4367.00	111.81	159.69	11.40	4367.00	4259.00	0.00	-108.00
Income Tax	0.00	2000.62	0.00	0	2000.62	0.00	0.00	1200.00	1200.00	0.00
Grand Total (A+B+C+D) =	1753.21	3924.28	10585.00	1166.70	3122.79	996.95	10585.00	11825.00	0.00	1240.00

FORM-E (PART-II)
HARYANA STATE POLLUTION CONTROL BOARD, PANCHKULA
ESTABLISHMENT

Statement of detail of provision for pay of Technical/Scientific staff for the year 2017-18

Name and Designation	Basic Pay as on 1.4.2017	GP	DA @125%	HRA @10% @20%	Medical Relief	Total	Amount of provision at the rate Column	Date of increment	Rate of increment	Amount of increment @3% of col 3+4	DA @125%	Total HRA @10% 28%) '9 months	Total for the year.	(Amount in Rupees)		
														12	13	14
1. ENV. ENGINEER																
i) Sh. S.P. Rathi, Sr. E.E.	34390	6400	59988	8403	500	106681	1208172	01.07.17	3%	1224	1538	308	21684	1235856.00		
Sr. E.E.	29560	6000	44950	7112	500	87622	1051464	01.07.17	3%	1067	1338	268	24084	1075548.00		
ii) Sh. Maveen Gula	24480	6000	38000	3040	500	71940	853280	01.07.17	3%	912	1150	207	20493	883773.00		
iii) Sh. Balraj Abhanat	24480	6000	38000	6080	500	74960	899760	01.07.17	3%	912	1150	414	22356	923116.00		
Rinera	24480	6000	38000	6080	500	74960	899760	01.07.17	3%	912	1150	414	22356	923116.00		
iv) Sh. J.P. Singh, E.E.	24480	6000	38000	6080	500	74960	899760	01.07.17	3%	912	1150	414	22356	923116.00		
v) Sh. Nirmal Kumar	24480	6000	38000	3040	500	71940	853280	01.07.17	3%	912	1150	207	20493	883773.00		
vi) Sh. Saimdar Pal	24480	6000	38000	6080	500	74960	899760	01.07.17	3%	912	1150	414	22356	923116.00		
vii) Sh. Sanjay Kumar	24480	6000	38000	3040	500	71940	853280	01.07.17	3%	912	1150	207	20493	883773.00		
viii) Sh. Kuldeep Singh	23580	6000	36875	2550	500	68825	837900	01.07.17	3%	885	1150	200	20430	856330.00		
Dalry	24370	6000	37963	3637	500	71870	852440	01.07.17	3%	885	1150	203	21267	883707.00		
ix) A.S. Suhag E.E.	21040	6000	33800	2704	500	64044	758528	01.07.17	3%	820	1025	207	18458	785996.00		
x) Vacant - 4	15600	6000	27000	4320	500	53420	641040	01.07.17	3%	648	813	185	14632	655972.00		
2. SCIENTIST C																
i) Sh. Dinesh Kumar	35710	6400	52638	8422	500	103670	1244040	01.07.17	3%	1263	1586	572	30570	1274910.00		
ii) Sh. S.K. Rohla	31820	6000	47275	7654	500	93159	1117908	01.07.17	3%	1135	1425	513	27702	1145610.00		
iii) Sh. Pramk Das	31820	6000	47275	7664	500	93159	1117908	01.07.17	3%	1135	1425	513	27702	1145610.00		
Gambis	29610	6000	44513	7122	500	87745	1052640	01.07.17	3%	1068	1338	482	26010	1078950.00		
iv) Sh. Ja Bhagwan	24370	6000	37963	6074	500	74967	898864	01.07.17	3%	911	1150	414	22356	921240.00		
v) Vacant-1	15300	6000	27000	4320	500	53420	641040	01.07.17	3%	648	813	185	14632	656844.00		

vi) Vacant-1	15800	6000	27000	4320	500	53420	641040	01.07.17	3%	648	650	813	293	15804	656844.00
3. SCIENTIST B															
i) Sh. Ranbir Singh	23460	5400	36075	2885	500	66321	819852	01.07.17	3%	865	870	1088	196	19386	839238.00
ii) Smt. Meeta Sarin	18760	5400	30200	4832	500	59602	716304	01.07.17	3%	725	730	913	329	17748	734052.00
iii) Sh. Raj Kumar	19200	5400	30750	4920	500	60770	729240	01.07.17	3%	738	738	923	333	17946	747186.00
iv) Sh. Sunil Kumar	16070	5400	26638	2147	500	50955	611480	01.07.17	3%	644	644	805	290	15651	627111.00
v) Smt. Pooje	16070	5400	26638	2147	500	50955	611480	01.07.17	3%	644	644	805	290	15651	627111.00
vi) Manika	16070	5400	26638	2147	500	50955	611480	01.07.17	3%	644	644	805	290	15651	627111.00
vii) Smt. Kirti	16070	5400	26638	2147	500	50955	611480	01.07.17	3%	644	644	805	290	15651	627111.00
viii) Vacant - 4	9000	5400	18375	2940	500	36515	1752720	01.07.17	3%	441	450	563	203	43775	1796496.00

33 PB-2 9300-34800+5400GP

ENGINEER															
1) Sh. Virey Singh	21800	5400	34000	2720	500	64420	773040	01.07.17	3%	816	820	1025	185	18270	791310.00
2) Sh. R.K.Bhorstey	28420	5400	42250	8450	500	85000	1020000	01.07.17	3%	1034	1014	1268	456	24642	1044642.00
3) Sh. Rajinder Sharma	24370	6000	37963	3037	500	71870	863440	01.07.17	3%	911	920	1150	207	20493	882933.00
4) Sh. Poonam Langyan	24370	6000	37963	3074	500	74907	898884	01.07.17	3%	911	920	1150	414	22356	921240.00
5) Sh. Samita Kanodiya	24370	6000	37963	3074	500	74907	898884	01.07.17	3%	911	900	1150	414	22356	921240.00
6) Sh. Dinesh Kumar	22620	5400	35025	5604	500	69149	829788	01.07.17	3%	841	850	1063	383	20964	850462.00
7) Sh. Shakti Singh	24370	6000	37963	3074	500	74907	898884	01.07.17	3%	911	920	1150	414	22356	921240.00
8) Sh. Kamaljit Singh	24370	6000	37963	3074	500	74907	898884	01.07.17	3%	911	920	1150	414	22356	921240.00
9) Sh. Sandeep Singh	24370	6000	37963	3074	500	74907	898884	01.07.17	3%	911	920	1150	414	22356	921240.00
10) Sh. Mahi Mehta	24370	5400	37213	2977	500	70460	844520	01.07.17	3%	893	900	1125	203	20052	805572.00
11) Sh. Dinesh Kumar	24370	5400	37213	3074	500	73557	882684	01.07.17	3%	893	920	1150	414	22356	905040.00
Pueta	24370	6000	37963	3074	500	74907	898884	01.07.17	3%	911	920	1150	414	22356	921240.00
13) Sh. Shalinder Arora	24350	6000	37938	3035	500	71823	861676	01.07.17	3%	911	920	1150	414	22356	884232.00
14) Sh. Vinay Gauram	25080	6000	38850	3216	500	76646	919752	01.07.17	3%	932	940	1175	523	23742	943494.00
15) Sh. Vijay Chaudhary	25080	6000	38850	3216	500	76646	919752	01.07.17	3%	932	940	1175	423	22842	942594.00
16) Sh. Ajay Singh	16390	5400	27148	2175	500	51613	619356	01.07.17	3%	653	660	825	149	14706	634062.00
17) Sh. Gaurav Kakkur	15710	5400	26368	2111	500	50109	601308	01.07.17	3%	633	640	800	144	14256	615584.00
18) Sh. Mohit Moudgi	15710	5400	26368	2111	500	50109	601308	01.07.17	3%	633	640	800	144	14256	615584.00
19) Sh. Naresh Kumar	15710	5400	26368	2111	500	50109	601308	01.07.17	3%	633	640	800	144	14256	615584.00
20) Sh. Ashwani	16380	5400	27188	2175	500	51613	619356	01.07.17	3%	653	660	825	149	14706	634062.00
21) Smt. Neha	16380	5400	27188	4350	500	53788	645456	01.07.17	3%	653	660	825	298	16047	681503.00
22) Sh. Nipun Mehta	16380	5400	27188	4350	500	53788	645456	01.07.17	3%	653	660	825	298	16047	681503.00
23) Sh. Ranveer Kumar	15680	5400	26359	4216	500	52146	625752	01.07.17	3%	632	640	800	288	15552	641304.00
24) Smt. Akansha	15710	5400	26368	4222	500	52220	626540	01.07.17	3%	633	640	800	288	15552	642192.00

25) Sh. Pardeep Singh	16350	5400	27168	2175	500	51613	619056	01.07.17	3%	653	660	825	149	14706	634062.00
26) Sh. Vign Kumar	16350	5400	27188	2175	500	51613	619056	01.07.17	3%	653	660	825	149	14706	634062.00
27) Sh. Vikas Chand	16350	5400	27188	4350	500	53788	645456	01.07.17	3%	653	660	825	287	16038	651454.00
28) Sh. Harsh Kumar	16300	5400	27125	2170	500	51485	617940	01.07.17	3%	651	660	825	149	14706	632646.00
29) Sh. Sudharth Bhargav	18130	5400	29413	4705	500	58140	697788	01.07.17	3%	705	710	888	320	17262	715050.00
30) Sh. Lakh Malik	18540	6400	31550	2524	500	59814	717768	01.07.17	3%	757	760	950	171	16929	734697.00
31) Sh. Sanchoo Nawal	18840	6400	31550	2524	500	59814	717768	01.07.17	3%	757	760	950	171	16929	734697.00
29) Vacant - 2	3300	5400	18375	2940	500	36515	876360	01.07.17	3%	441	450	563	203	21885	898248.00

11 PB-2 9300-34800+4090GP

ENGINEER

- i) Sh. Rajinder Singh
 ii) Raveinder Yadav
 iii) Sameer Kumar
 iv) Sachin Kumar
 v) Sh. Ombr
 vi) Sh. Vikash Kumar
 vii) Sh. Subhash Chandra
 viii) Sh. Shashi Bhushan
 Vacant-3

i) Sh. Rajinder Singh	13980	4000	22475	1795	500	2000	44753	537036	01.07.17	3%	539	540	675	122	12033	549059.00
ii) Raveinder Yadav	15630	4000	24538	1963	500	2000	48631	583572	01.07.17	3%	589	590	738	133	13149	596721.00
iii) Sameer Kumar	15630	4000	24538	1963	500	2000	48631	583572	01.07.17	3%	589	590	738	133	13149	596721.00
iv) Sachin Kumar	15630	4000	24538	1963	500	2000	48631	583572	01.07.17	3%	589	590	738	133	13149	596721.00
v) Sh. Ombr	13460	4000	21825	1746	500	2000	43531	522372	01.07.17	3%	524	530	663	119	11808	534180.00
vi) Sh. Vikash Kumar	12950	4000	21200	3392	500	2000	44052	528624	01.07.17	3%	509	510	638	230	12402	541026.00
vii) Sh. Subhash Chandra	13980	4000	22100	3536	500	2000	48196	549792	01.07.17	3%	530	540	675	243	13122	562944.00
viii) Sh. Shashi Bhushan	13980	4000	21613	3455	500	2000	44861	538332	01.07.17	3%	519	520	650	234	12636	590998.00
Vacant-3	9300	3600	16125	2580	500	3000	34105	1227780	01.07.17	3%	387	390	485	176	28458	1256238.00

ASSTT.

(One post diminishing)

4 PB-2 9300-34800+4090GP

- i) Sh. Sukh Ram
 ii) Sh. Anamish Kumar
 iii) Nanender Hooda
 iv) Vikas Grewal
 v) Vacant 0
 vi) Diminishing 1

i) Sh. Sukh Ram	14220	4000	22775	3644	500	2000	47139	565668	01.07.17	3%	547	550	688	248	13374	579042.00
ii) Sh. Anamish Kumar	14220	4000	22775	1822	500	2000	45317	543804	01.07.17	3%	547	550	688	124	12268	556062.00
iii) Nanender Hooda	14190	4000	22736	3638	500	2000	47066	564792	01.07.17	3%	546	550	688	248	13374	578166.00
iv) Vikas Grewal	14200	4000	22750	3640	500	2000	47090	565080	01.07.17	3%	546	550	688	248	13374	578454.00
v) Vacant 0	9300	3600	16125	2580	500	2000	34105	499260	01.07.17	3%	387	400	500	180	9720	418980.00

ASSTT.

6 PB-2 9300-34800+3660GP

- i) Neeraj Bala
 Vacant-5

i) Neeraj Bala	14180	3600	22225	3566	500	2000	46061	562732	01.07.17	3%	533	540	675	243	13122	595854.00
Vacant-5	9300	3200	15625	2500	500	2000	33125	1887500	01.07.17	3%	375	375	469	169	45585	2032085.00

8. LAB. ATTENDANT

7 PB-1 5200-25200+1990GP

FORM-E (PART-II)
HARYANA STATE POLLUTION CONTROL BOARD, PANCHKULA
ESTABLISHMENT

Statement of details of provision for pay of Non Technical/Scientific staff for the year 2016-17

Name and Designation	1	2	3	4	5	6	7	8	9	10	Increment falling due within the year				15
											11	12	13	14	
		Basic Pay as on 1.4.2016	GP	DA @125%	HRA @16% @20%	Medical	Item	Total	Amount of provision for the year at the rate in Column	Date of increment	Amount of increment @3% of col 3+4	DA @125%	HRA @10% (Col. 11+12+13) @20% *9 months	Total	Total for the year.
1. CHAIRMAN															
	1	PB-4-37400-67000													
		48140	10000	72675	11628			142443	1705316	01.07.17	1750	2188	769	42530	1751646.00
2. MEMBER SECRETARY															
	1	PB-4-37400-67000													
		49730	8000	74250	11880			145530	1745390	01.07.17	1780	2225	801	43254	1789614.00
		730													
3. SR. ACCOUNTS OFFICER															
	1	PB-3-15600-39100													
		24140	9000	37675		500		68345	819780	01.07.17	910	1134	410	22118	841826.00
4. DISTRICT ATTORNEY															
	1	PB-3-15600-39100													
		24350	6400	39488	6158	500		75936	911226	01.07.17	930	1163	419	22604	933830.00
5. TEHSILDAR															
	1	PB-2-9300-34800													
		19550	5400	27438	4390	500		54278	651330	01.07.17	660	825	297	16036	667368.00
6. P.S. to CHAIRMAN															
	1	PB-2-9300-34800													
		20340	4200	30675	4908	500		66623	727476	01.07.17	740	925	333	17982	745458.00

7. REGISTRAR													
1 PB-2 9300-34800													
Smt. Ran Karakoti	21300	4200	31875	5100	500	62975	755700	01.07.17	770	963	347	18716	774416.00
8. SUPERINTENDENT													
3 PB-2 9300-34800													
Sh. Dev Raj	22460	4200	33325	5332	500	65817	789804	01.07.17	800	1000	360	19440	809246.00
Smt. Santia Rani	21030	4200	31613	5058	500	62451	749535	01.07.17	760	950	347	15468	767594.00
Smt. Reshina Rani	20270	4200	30588	4894	500	60452	725418	01.07.17	740	925	333	17982	743400.00
9 DY. SUPDT. (1)													
(Diminshing)													
10. SECTION OFFICER(SAS)													
1 PB-2 9300-34800													
Sh. Ramesh Kumar	20530	4600	31538	5040	500	64314	753762	01.07.17	760	950	342	15468	772230.00
11. ASSTT. DISTT. ATTORNEY													
3 PB-2 9300-34800													
Smt. Geedanj Alauji	13070	4600	22338	1787	500	42455	509934	01.07.17	540	675	122	10029	521563.00
Vacant 2	9300	4600	17625	2820	500	33045	641080	01.07.17	430	538	194	10454	651534.00
12. STATISTICAL ASSTT.													
2 PB-2 9300-34800													
Vacant	10148	3600	17175	2748	500	20000	433956	01.07.17	420	525	189	10206	444162.00
13. P.A. To M.S.													
1 PB-2 9300-34800													
Sh. Jasbir Singh	19150	4000	28125	4650	500	20000	715020	01.07.17	700	875	315	17010	730030.00

14. ACCOUNTANT 4 PB-2 9300-34800

i) Sh. Ratan Singh	18700	3600	27875	4460	500	2000	57135	68520	01.07.17	670	836	302	16286	701906.00
ii) Smt. Rash Sharma	17120	4000	25400	4224	500	2000	54244	650928	01.07.17	640	800	288	15552	696480.00
iii) Vacant - 2	9000	3000	16125	2580	500	2000	34105	816520	01.07.17	360	488	176	18965	837485.00

15. ASSISTANT 19 PB-2 9300-34800

1. Sh. V.K.Rana	20280	4000	30350	4856	500	2000	61986	743832	01.07.17	730	913	329	17744	761576.00
2. Smt. Rajender Kaur	18700	3600	27875	4460	500	2000	57135	685620	01.07.17	670	838	302	16286	701906.00
3. Smt. Lalita Khurana	18700	3600	27875	4460	500	2000	57135	685620	01.07.17	670	838	302	16286	701906.00
4. Vijay Singh Yadav	13200	3600	21000	3360	500	2000	43960	523820	01.07.17	510	638	230	12398	536318.00
5. Sh. Sher Chand	12200	3600	19750	3160	500	2000	41710	494520	01.07.17	480	600	216	17664	506184.00
6. Sh. Poonam Sharma	11040	3600	18300	2928	500	2000	36368	460416	01.07.17	460	550	198	10692	471106.00
7. Sh. Nade Singh	12200	3600	19750	3160	500	2000	41270	484520	01.07.17	480	600	216	17664	506184.00
8. Sh. Harbhajan Chogri	11950	3600	18688	2990	500	2000	39128	460530	01.07.17	450	563	203	10940	480470.00
9. Sh. Mehar Chand	14910	3600	21138	3702	500	2000	47860	574194	01.07.17	560	700	252	13608	587802.00
10. Sh. Rajesh Kumar	13810	3600	21763	3482	500	2000	45165	541654	01.07.17	530	663	219	12884	554738.00
11. Sh. R.K. Ranga	13470	3600	21338	3414	500	2000	44322	531858	01.07.17	520	650	234	12030	544494.00
12. Sh. Mohinder Kumar	14180	3600	22225	3556	500	2000	46061	552732	01.07.17	540	675	243	13122	565854.00
13. Sh. Yogesh Yadav	9930	3600	16913	2706	500	2000	36646.5	427782	01.07.17	430	513	185	9968	437750.00
14. Sh. Satpal Singh	10080	3600	17180	1368	500	2000	34648	415776	01.07.17	420	525	96	9356	425132.00
15. Vacant - 5	9140	3600	15925	2548	500	2000	33713	2022780	01.07.17	390	488	176	47930	2070210.00

16. STENO GRAPHERS. 3 PB-2 9300-34800

1. Smt. Rakha Rani	17930	3600	26913	4306	500	2000	55249	662982	01.07.17	660	813	293	15800	678782.00
2. Sh. Hukam Chand	11450	3600	18813	3010	500	2000	29173	479479	01.07.17	460	475	207	11178	483648.00

3. Vacant - 1	9300	3600	16125	2580	500	2000	34105	479250	01.07.17	350	488	176	9486	418746.00
17. JR. SCALE STENOGRAPH 2 PB-1 5200-20200														
Vacant 1+1=2	17720	2400	25150	4024	500	2000	51794	627528	01.07.17	610	763	275	14458	636356.00
2 PB-2 9300-34600														
(Jr. Programmeer)														
(Two post diminishing)														
1. Sh. Sandeep Sharma, Jr. Prog	16340	4000	27925	4468	500	2000	57233	686795	01.07.17	680	850	305	16524	703120.00
19. STENO TYPIST 13 PB-1 5201-20200														
Vacant - 13	7440	1900	11800	1888	500	2000	25628	3997968	01.07.17	250	363	131	91128	408906.00
	100													
20. ACCOUNTS CLERK. 2 PB-1 5200-20200														
1. Vacant - 2	7440	2400	12300	1968	500	2000	29628	638592	01.07.17	300	375	135	14580	653172.00
21. CLERKS 40 PB-1 5200-20200														
(Ten post diminishing)														
1. Smt. Sumitra Devi	11184	2400	16975	1358	500	2000	34413	413256	01.07.17	410	513	92	9138	422394.00
	25													
2. Sh. Tara Chand	11600	2400	17750	2640	500	2000	37290	476280	01.07.17	430	538	194	10454	486734.00
3. Sh. Suresh Kumar	10940	2400	16705	1334	500	2000	33965	406563	01.07.17	410	513	92	9138	415701.00
	25													
4. Smt. Saroj Bala	10376	1900	16588	2654	500	2000	35012	420138	01.07.17	400	500	180	9720	429658.00
	1000													
5. Sh. Shree Bhagwan	8860	1900	13450	1076	500	2000	27786	333432	01.07.17	330	413	74	7356	340788.00
6. Sh. Pawan Kumar	10250	2400	15813	2530	500	2000	34493	401910	01.07.17	380	475	171	9214	411144.00

4. Sh. Bhagwan Dass	14650	3600	23063	1845	500	2000	49858	550290	01.07.17	560	700	252	13608	563808.00
	200													
5. Sh. Bachamber Lal	14960	3600	23209	3752	500	2000	48212	578544	01.07.17	570	713	257	13858	592400.00
	200													
6. Sh. Munisar Singh	14350	3600	22688	3630	500	2000	46968	563610	01.07.17	550	688	248	13370	576980.00
	200													
7. Sh. Shardha Nand	14380	3600	22725	1818	500	2000	45223	542676	01.07.17	545	681	245	13241	555917.00
	200													
8. Sh. Daya Nand	17160	4800	26675	2134	500	2000	52649	631788	01.07.17	550	813	293	15850	647588.00
	200													
9. Sh. Keshari Singh	8010	2400	13263	2122	500	2000	28485	341934	01.07.17	320	480	144	7776	349710.00
	200													
10. Sh. Bakwan Singh	8700	2400	14125	1130	500	2000	29055	348560	01.07.17	340	425	77	7574	356234.00
	200													
11. Sh. Jig Pal	8700	2400	14125	1130	500	2000	29055	348560	01.07.17	340	425	77	7574	356234.00
	200													
12. Sh. Vinod Kumar	8700	2400	14125	1130	500	2000	29055	348560	01.07.17	340	425	77	7574	356234.00
	200													
13. Vacant - 5	7440	2400	12500	2000	500	2000	27098	1625660	01.07.17	310	388	140	37992	1863572.00
	200													
23. MACHINE OPERATOR (One post diminishing)														
1. Vacant - 1	5680	1900	5475		500			210950	01.07.17		0	0	0	210950.00
24. SENIOR PEON														
1. Sh. Roshan Lal	10720	2000	15900	2544	500	2000	33664	403968	01.10.17	190	498	176	5482	413450.00

11. Vacant - 20	4750	1300	7988	1278	500	2000	18156	4357440	01.07.17	200	250	90	97200	4454640.00
	240	100												
27. MALU-CUM-CHOKKIDAR	9	IS-4440-7440												
(9 post diminishing)														
1. Sh. Duhri Ram	8540	1900	14150	2264	500	2000	30234	338808	01.07.17	340	425	153	8262	347070.00
	90													
	240													
	150													
2. Sh. Bhatra Ram	9090	1900	14338	2294	500	2000	30602	367218	01.07.17	350	438	158	8510	375728.00
	90													
	240													
	150													
3. Vacant - 7	4750	1300	8163	1306	500	2000	18499	1553916	01.07.17	200	250	90	34020	1567936.00
	90													
	240													
	150													
28. SWEEPER	1	IS-4440-7440												
(Diminishing)														
1. Sh. Mahpal	9590	2000	15631	2501	500	2000	33137	397647	01.07.17	380	475	171	9234	446881.00
	525													
	240													
	150													
TOTAL	163	1190205	283790	1844473	261618	45580	159000	3767614	63181002	44515	55670	18795	1463125	64643627

Salary	Rs.	646.44	Lacs
LTC	Rs	30.00	Lacs
Additional D.A. 20%	Rs.	45.00	Lacs
DPF Board Contribution	Rs.	15.00	Lacs
Leave Salary & Pension Contribution	Rs.	40.00	Lacs
H R Board Contribution	Rs	1.56	Lacs
Pension Contribution(Board Employees)	Rs.	70.00	Lacs
Contribution of Gratuity (Board Employee)	Rs.	35.00	Lacs
Leave encashment contribution (Board E/RS)	Rs.	11.00	Lacs
Revision of revised scale	Rs.	90.00	Lacs
GRAND TOTAL :	Rs.	994.00	Lacs

Agenda Item No. 176.17 (5)

Procedure for obtaining the authorization for recycling of Hazardous Waste specified in Schedule-IV of the Hazardous & Other Waste (M&TM) Rules, 2016

The Board had laid down the procedure for processing the applications for grant of registration for recycling/reprocessing of Hazardous Waste specified in Schedule-IV of the Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008 vide order Endst. No. HSPCB/2010/4444-68 dated 20.12.2010 (**Annexure-I**).

The Ministry of Environment, Forest & Climate Change, Govt. of India has notified the Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016 (**Annexure-II**) on 04.04.2016 in supersession of Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008 and therefore the revised procedure is required to be laid down for processing the applications for authorization for recycling/reprocessing of hazardous waste listed in Schedule-IV according to the provisions of these Rules.

As per provisions of Rule 6 of Hazardous & Other Waste (Management & Trans-boundary Movement) Rules, 2016, the Board is empowered to grant authorization to recycler to recycle hazardous waste as listed in Schedule-IV of the said Rules.

Accordingly a procedure has been laid down for the recycler units for obtaining the authorization for recycling of hazardous waste listed in Schedule-IV of Hazardous & Other Waste (M&TM) Rules, 2016 and circulated vide order Endst. No. HSPCB/HW/ 2016/405-425 dated 19.08.2016 (**Annexure-III**).

The matter is placed before the Board for consideration and Ex-Post Facto approval please.



HARYANA STATE POLLUTION CONTROL BOARD
C-11, SECTOR-6, PANCHKULA
Ph. 0172-2577876-73

OFFICE ORDER

The Ministry of Environment & Forests, Govt. of India vide Notification No. S.O 1996 (E) dated 13.08.2010 issued under the Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008 has authorized the State Pollution Control Board for grant of registration for recycling/ reprocessing of hazardous wastes specified in Schedule-IV of the Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008. The applicant shall submit the application regarding grant/renewal of registration for recycling/reprocessing of hazardous waste in Form-V accompanied with a copy of Consent to establish, Certificate of registration from GMDIG, proof of installed capacity of plant & machinery issued by GMDIG to the Regional Officer of HSPCB and a checklist in this regard is given at Annexure 'A'. After the receipt of complete case, inspection shall be carried out by a team consisting of Regional Officer and one AEE / Scientist B of adjoining Region to verify whether the applicant is utilizing environmentally sound technologies and possesses adequate technical capabilities, requisite facilities and equipment to recycle/reprocess or reuse hazardous waste. The Regional Officer will submit the report on the prescribed format given at Annexure 'B' alongwith all original documents submitted by the applicant within 21 days to the Head Office giving definite recommendations for refusal/grant of registration. The registration shall be issued on the pass book as per the pattern of CPCB by the Officer incharge in the Head Office after taking approval of the Chairman, HSPCB. In the Head Office, the cases of registration will be dealt by the Branch directly dealing with the subject of Hazardous Waste Management and all such cases shall be processed by Scientist B-1 (HQ) and will put up the case through Scientist C (HQ) to the authorities.

The status of all such applications will be displayed on the website under the heading: Registered Recycler of Haryana

Dated Panchkula, the
16th December, 2010

Dr. A.S. Chahal
Dr. A.S. Chahal
Chairman

Endst.No. HSPCB/2010/176/17 (9)

Dated: 20-12-2010

A copy of the above is forwarded to the following for information and further necessary action -

- 1 All Regional Officers in the field
- 2 All Officers of the Head Office
- 3 P.S. to Chairman
- 4 P.A. to Member Secretary
- 5 Care Taker. He will get the printing of Registration Books in three colours hundred each within 10 days

Scientist C-1 (HQ)
Scientist C-1 (HQ)
For Chairman

CHECK LIST

1. Duly filed up application in form -5 in triplicate
2. Consent to Establish granted by the Board
3. Certificate of registration issued by the District Industries Centre or any other Government agency authorized in this regard.
4. Proof of installed capacity of plant and machinery issued by the District Industries Centre or any other government agency authorized in this behalf.
5. Process flow sheet of recycling or reprocessing of hazardous waste.
6. Details of storage for raw materials and products
7. Detail of Air Pollution Control Systems (APCS) installed in the unit along with the diagram.
8. Details of Effluent Treatment Plant (ETP) with diagram.
9. Details of storage facility of hazardous waste generated during the process.
10. Membership of CHWTSDF

[PUBLISHED IN THE GAZETTE OF INDIA, EXTRAORDINARY, PART II,
SECTION 3, SUB-SECTION (i)]

GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

NOTIFICATION

New Delhi, the 04th April, 2016

G.S.R No. 395 (E). - Whereas the draft rules, namely the Hazardous And Other Wastes (Management and Transboundary Movement) Rules, 2015, were published by the Government of India in the Ministry of Environment, Forest and Climate Change vide number G.S.R. 582(E), dated the 24th July, 2015 in the Gazette of India, Extraordinary Part II, section 3, sub-section (i) inviting objections and suggestions from all persons likely to be affected thereby, before the expiry of the period of sixty days from the date on which copies of the Gazette containing the said notification were made available to the public;

AND WHEREAS the copies of the said Gazette containing the said notification were made available to the public on the 24th day of July, 2015;

AND WHEREAS the objections and suggestions received within the specified period from the public in respect of the said draft rules have been duly considered by the Central Government;

NOW, THEREFORE, in exercise of the powers conferred by sections 6, 8 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), and in supersession of the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008, except as respects things done or omitted to be done before such supersession, the Central Government hereby makes the following rules, namely:-

CHAPTER I

PRELIMINARY

1. **Short title and commencement.** - (1) These rules may be called the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016
- (2) They shall come into force on the date of their publication in the Official Gazette.
2. **Application.** - These rules shall apply to the management of hazardous and other wastes as specified in the Schedules to these rules but shall not apply to -
 - (a) waste-water and exhaust gases as covered under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 (6 of 1974) and the Air (Prevention and Control of Pollution) Act, 1981 (14 of 1981) and the rules made thereunder and as amended from time to time;
 - (b) wastes arising out of the operation from ships beyond five kilometres of the relevant baseline as covered under the provisions of the Merchant Shipping Act, 1958 (44 of 1958) and the rules made thereunder and as amended from time to time;

- (c) radio-active wastes as covered under the provisions of the Atomic Energy Act, 1962 (33 of 1962) and the rules made thereunder and as amended from time to time;
- (d) bio-medical wastes covered under the Bio-Medical Wastes (Management and Handling) Rules, 1998 made under the Act and as amended from time to time; and
- (e) wastes covered under the Municipal Solid Wastes (Management and Handling) Rules, 2000 made under the Act and as amended from time to time.

3. **Definitions.** - (1) In these rules, unless the context otherwise requires,-

1. "Act" means the Environment (Protection) Act, 1986 (29 of 1986);
2. "actual user" means an occupier who procures and processes hazardous and other waste for reuse, recycling, recovery, pre-processing, utilisation including co-processing;
3. "authorisation" means permission for generation, handling, collection, reception, treatment, transport, storage, reuse, recycling, recovery, pre-processing, utilisation including co-processing and disposal of hazardous wastes granted under sub-rule (2) of rule 6;
4. "Basel Convention" means the United Nations Environment Programme Convention on the Control of Transboundary Movement of Hazardous Wastes and their Disposal;
5. "captive treatment, storage and disposal facility" means a facility developed within the premises of an occupier for treatment, storage and disposal of wastes generated during manufacture, processing, treatment, package, storage, transportation, use, collection, destruction, conversion, offering for sale, transfer or the like of hazardous and other wastes;
6. "Central Pollution Control Board" means the Central Pollution Control Board constituted under sub-section (1) of section 3 of the Water (Prevention and Control of Pollution) Act, 1974 (6 of 1974);
7. "common treatment, storage and disposal facility" means a common facility identified and established individually or jointly or severally by the State Government, occupier, operator of a facility or any association of occupiers that shall be used as common facility by multiple occupiers or actual users for treatment, storage and disposal of the hazardous and other wastes;
8. "co-processing" means the use of waste materials in manufacturing processes for the purpose of energy or resource recovery or both and resultant reduction in the use of conventional fuels or raw materials or both through substitution;
9. "critical care medical equipment" means life saving equipment and includes such equipment as specified by the Ministry of Health and Family Welfare from time to time;
10. "disposal" means any operation which does not lead to reuse, recycling, recovery, utilisation including co-processing and includes physico-chemical treatment, biological treatment, incineration and disposal in secured landfill;

11. "export", with its grammatical variations and cognate expressions, means taking out of India to a place outside India;
12. "exporter" means any person or occupier under the jurisdiction of the exporting country who exports hazardous or other wastes, including the country which exports hazardous or other waste;
13. "environmentally sound management of hazardous and other wastes" means taking all steps required to ensure that the hazardous and other wastes are managed in a manner which shall protect health and the environment against the adverse effects which may result from such waste;
14. "environmentally sound technologies" means any technology approved by the Central Government from time to time;
15. "facility" means any establishment wherein the processes incidental to the generation, handling, collection, reception, treatment, storage, reuse, recycling, recovery, pre-processing, co-processing, utilisation and disposal of hazardous and, or, other wastes are carried out;
16. "Form" means a form appended to these rules;
17. "hazardous waste" means any waste which by reason of characteristics such as physical, chemical, biological, reactive, toxic, flammable, explosive or corrosive, causes danger or is likely to cause danger to health or environment, whether alone or in contact with other wastes or substances, and shall include -
- (i) waste specified under column (3) of Schedule I;
 - (ii) waste having equal to or more than the concentration limits specified for the constituents in class A and class B of Schedule II or any of the characteristics as specified in class C of Schedule II; and
 - (iii) wastes specified in Part A of Schedule III in respect of import or export of such wastes or the wastes not specified in Part A but exhibit hazardous characteristics specified in Part C of Schedule III;
18. "import", with its grammatical variations and cognate expressions, means bringing into India from a place outside India;
19. "importer" mean any person or occupier who imports hazardous or other waste;
20. "manifest" means transporting document prepared and signed by the sender authorised in accordance with the provisions of these rules;
21. "occupier" in relation to any factory or premises, means a person who has, control over the affairs of the factory or the premises and includes in relation to any hazardous and other wastes, the person in possession of the hazardous or other waste;
22. "operator of disposal facility" means a person who owns or operates a facility for collection, reception, treatment, storage and disposal of hazardous and other wastes;
23. "other wastes" means wastes specified in Part B and Part D of Schedule III for import or export and includes all such waste generated indigenously within the country.

24. "pre-processing" means the treatment of waste to make it suitable for co-processing or recycling or for any further processing;
25. "recycling" means reclamation and processing of hazardous or other wastes in an environmentally sound manner for the originally intended purpose or for other purposes;
26. "reuse" means use of hazardous or other waste for the purpose of its original use or other use;
27. "recovery" means any operation or activity wherein specific materials are recovered;
28. "Schedule" means a Schedule appended to these rules;
29. "State Government" in relation to a Union territory means, the Administrator thereof appointed under article 239 of the Constitution;
30. "State Pollution Control Board" means the State Pollution Control Board constituted under section 4 of the Water (Prevention and Control of Pollution) Act, 1974 (6 of 1974) and includes, in relation to a Union territory, the Pollution Control Committee;
31. "storage" means storing any hazardous or other waste for a temporary period, at the end of which such waste is processed or disposed of;
32. "transboundary movement" means any movement of hazardous or other wastes from an area under the jurisdiction of one country to or through an area under the jurisdiction of another country or to or through an area not under the jurisdiction of any country, provided that at least two countries are involved in the movement;
33. "transport" means off-site movement of hazardous or other wastes by air, rail, road or water;
34. "transporter" means a person engaged in the off-site transportation of hazardous or other waste by air, rail, road or water;
35. "treatment" means a method, technique or process, designed to modify the physical, chemical or biological characteristics or composition of any hazardous or other waste so as to reduce its potential to cause harm;
36. "used oil" means any oil-
- (i) derived from crude oil or mixtures containing synthetic oil including spent oil, used engine oil, gear oil, hydraulic oil, turbine oil, compressor oil, industrial gear oil, heat transfer oil, transformer oil and their tank bottom sludges; and
 - (ii) suitable for reprocessing, if it meets the specification laid down in Part A of Schedule V but does not include waste oil;
37. "utilisation" means use of hazardous or other waste as a resource;

38. "waste" means materials that are not products or by-products, for which the generator has no further use for the purposes of production, transformation or consumption.

Explanation.- for the purposes of this clause,

- (i) waste includes the materials that may be generated during, the extraction of raw materials, the processing of raw materials into intermediates and final products, the consumption of final products, and through other human activities and excludes residuals recycled or reused at the place of generation, and
 - (ii) by-product means a material that is not intended to be produced but gets produced in the production process of intended product and is used as such,
39. "waste oil" means any oil which includes spills of crude oil, emulsions, tank bottom sludge and slop oil generated from petroleum refineries, installations or ships and can be used as fuel in furnaces for energy recovery, if it meets the specifications laid down in Part-B of Schedule V either as such or after reprocessing.

(2) Words and expressions used in these rules and not defined but defined in the Act shall have the meanings respectively assigned to them in the Act.

CHAPTER II

PROCEDURE FOR MANAGEMENT OF HAZARDOUS AND OTHER WASTES

4. Responsibilities of the occupier for management of hazardous and other wastes.-

(1) For the management of hazardous and other wastes, an occupier shall follow the following steps, namely:-

- (a) prevention;
- (b) minimization;
- (c) reuse,
- (d) recycling;
- (e) recovery, utilisation including co-processing;
- (f) safe disposal.

(2) The occupier shall be responsible for safe and environmentally sound management of hazardous and other wastes.

(3) The hazardous and other wastes generated in the establishment of an occupier shall be sent or sold to an authorised actual user or shall be disposed of in an authorised disposal facility.

(4) The hazardous and other wastes shall be transported from an occupier's establishment to an authorised actual user or to an authorised disposal facility in accordance with the provisions of these rules.

(5) The occupier who intends to get its hazardous and other wastes treated and disposed of by the operator of a treatment, storage and disposal facility shall give to the operator of that facility, such specific information as may be needed for safe storage and disposal.

(6) The occupier shall take all the steps while managing hazardous and other wastes to-

- (a) contain contaminants and prevent accidents and limit their consequences on human beings and the environment; and
- (b) provide persons working in the site with appropriate training, equipment and the information necessary to ensure their safety.

5. **Responsibilities of State Government for environmentally sound management of hazardous and other wastes.** - (1) Department of Industry in the State or any other government agency authorised in this regard by the State Government, to ensure earmarking or allocation of industrial space or shed for recycling, pre-processing and other utilisation of hazardous or other waste in the existing and upcoming industrial park, estate and industrial clusters;

(2) Department of Labour in the State or any other government agency authorised in this regard by the State Government shall -

- (a) ensure recognition and registration of workers involved in recycling, pre-processing and other utilisation activities;
- (b) assist formation of groups of such workers to facilitate setting up such facilities;
- (c) undertake industrial skill development activities for the workers involved in recycling, pre-processing and other utilisation;
- (d) undertake annual monitoring and to ensure safety and health of workers involved in recycling, pre-processing and other utilisation.

(3) Every State Government may prepare integrated plan for effective implementation of these provisions and to submit annual report to the Ministry of Environment, Forest and Climate Change, in the Central Government.

6. **Grant of authorisation for managing hazardous and other wastes.** - (1) Every occupier of the facility who is engaged in handling, generation, collection, storage, packaging, transportation, use, treatment, processing, recycling, recovery, pre-processing, co-processing, utilisation, offering for sale, transfer or disposal of the hazardous and other wastes shall be required to make an application in Form 1 to the State Pollution Control Board and obtain an authorisation from the State Pollution Control Board within a period of sixty days from the date of publication of these rules. Such application for authorisation shall be accompanied with a copy each of the following documents, namely:-

- (a) consent to establish granted by the State Pollution Control Board under the Water (Prevention and Control of Pollution) Act, 1974 (25 of 1974) and the Air (Prevention and Control of Pollution) Act, 1981 (21 of 1981);
- (b) Consent to operate granted by the State Pollution Control Board under the Water (Prevention and Control of Pollution) Act, 1974 (25 of 1974) and/or Air (Prevention and Control of Pollution) Act, 1981, (21 of 1981);
- (c) in case of renewal of authorisation, a self-certified compliance report in respect of effluent, emission standards and the conditions specified in the authorisation for hazardous and other wastes;

Provided that an application for renewal of authorisation may be made three months before the expiry of such authorisation;

Provided further that-

- (i) any person authorised under the provisions of the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008, prior to the date of commencement

- of these rules, shall not be required to make an application for authorisation till the period of expiry of such authorisation;
- (ii) any person engaged in recycling or reprocessing of the hazardous waste specified in Schedule IV and having registration under the provisions of the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008, shall not be required to make an application for authorisation till the period of expiry of such registration.

(2) On receipt of an application complete in all respects for the authorisation, the State Pollution Control Board may, after such inquiry as it considers necessary, and on being satisfied that the applicant possesses appropriate facilities for collection, storage, packaging, transportation, treatment, processing, use, destruction, recycling, recovery, pre-processing, co-processing, utilisation, offering for sale, transfer or disposal of the hazardous and other waste, as the case may be, and after ensuring technical capabilities and equipment complying with the standard operating procedure or other guidelines specified by the Central Pollution Control Board from time to time and through site inspection, grant within a period of one hundred and twenty days, an authorisation in Form 2 to the applicant, which shall be valid for a period of five years subject to such conditions as may be laid down therein. For commonly recyclable hazardous waste as given in Schedule IV, the guidelines already prepared by the Central Pollution Control Board shall be followed:

Provided that in the case of an application for renewal of authorisation, the State Pollution Control Board may, before granting such authorisation, satisfy itself that there has been no violation of the conditions specified in the authorisation earlier granted by it and same shall be recorded in the inspection report.

(3) The authorisation granted by the State Pollution Control Board under sub-rule (2) shall be accompanied by a copy of the field inspection report signed by that Board indicating the adequacy of facilities for collection, storage, packaging, transportation, treatment, processing, use, destruction, recycling, recovery, pre-processing, co-processing, utilisation, offering for sale, transfer or disposal of the hazardous and other wastes and compliance to the guidelines or standard operating procedures specified by the Central Pollution Control Board from time to time.

(4) The State Pollution Control Board may, for the reasons to be recorded in writing and after giving reasonable opportunity of being heard to the applicant, refuse to grant any authorisation under these rules.

(5) Every occupier authorised under these rules, shall maintain a record of hazardous and other wastes managed by him in Form 3 and prepare and submit to the State Pollution Control Board an annual return containing the details specified in Form 4 on or before the 30th day of June following the financial year to which that return relates.

(6) The State Pollution Control Board shall maintain a register containing particulars of the conditions imposed under these rules for management of hazardous and other wastes and it shall be open for inspection during office hours to any interested or affected person.

(7) The authorised actual user of hazardous and other wastes shall maintain records of hazardous and other wastes purchased in a passbook issued by the State Pollution Control Board along with the authorisation.

(8) Handing over of the hazardous and other wastes to the authorised actual user shall be only after making the entry into the passbook of the actual user.

7. **Power to suspend or cancel an authorisation.**- (1) The State Pollution Control Board may, if in its opinion the holder of the authorisation has failed to comply with any of the conditions of the authorisation or with any provisions of the Act or these rules and after giving him a reasonable opportunity of being heard and after recording reasons thereof in writing cancel or suspend the authorisation issued under rule 6 for such period as it considers necessary in the public interest.

(2) Upon suspension or cancellation of the authorisation, the State Pollution Control Board may give directions to the person whose authorisation has been suspended or cancelled for the safe storage and management of the hazardous and other wastes, and such occupier shall comply with such directions.

8. **Storage of hazardous and other wastes.**- (1) The occupiers of facilities may store the hazardous and other wastes for a period not exceeding ninety days and shall maintain a record of safe transfer, storage, recycling, recovery, pre-processing, co-processing and utilisation of such wastes and make these records available for inspection.

Provided that the State Pollution Control Board may extend the said period of ninety days in following cases, namely:-

- (i) small generators (up to ten tonnes per annum) up to one hundred and eighty days of their annual capacity;
- (ii) actual users and disposal facility operators up to one hundred and eighty days of their annual capacity;
- (iii) occupiers who do not have access to any treatment, storage, disposal facility in the concerned State; or
- (iv) the waste which needs to be specifically stored for development of a process for its recycling, recovery, pre-processing, co-processing or utilisation;
- (v) in any other case, on justifiable grounds up to one hundred and eighty days.

9. **Utilisation of hazardous and other wastes.**-(1) The utilisation of hazardous and other wastes as a resource or after pre-processing either for co-processing or for any other use, including within the premises of the generator (if it is not part of process), shall be carried out only after obtaining authorisation from the State Pollution Control Board in respect of waste on the basis of standard operating procedures or guidelines provided by the Central Pollution Control Board.

(2) Where standard operating procedures or guidelines are not available for specific utilisation, the approval has to be sought from Central Pollution Control Board which shall be granting approval on the basis of trial runs and thereafter, standard operating procedures or guidelines shall be prepared by Central Pollution Control Board.

Provided, if trial run has been conducted for particular waste with respect to particular utilisation and compliance to the environmental standards has been demonstrated, authorisation may be granted by the State Pollution Control Board with respect to the same waste and utilisation, without need of separate trial run by Central Pollution Control Board and such cases of successful trial run, Central Pollution Control Board shall intimate all the State Pollution Control Board regarding the same.

(3) No trial runs shall be required for co-processing of waste in cement plants for which guidelines by the Central Pollution Control Board are already available; however, the actual users shall

ensuring compliance to the standards notified under the Environment (Protection) Act, 1986 (29 of 1986), for cement plant with respect to co-processing of waste.

Provided that till the time the standards are notified, the procedure as applicable to other kind of utilisation of hazardous and other waste, as enumerated above shall be followed.

10. **Standard Operating Procedure or guidelines for actual users.**- The Ministry of Environment, Forest and Climate Change or the Central Pollution Control Board may issue guidelines or standard operating procedures for environmentally sound management of hazardous and other wastes from time to time.

CHAPTER III

IMPORT AND EXPORT OF HAZARDOUS AND OTHER WASTES

11. **Import and export (transboundary movement) of hazardous and other wastes.** - The Ministry of Environment, Forest and Climate Change shall be the nodal Ministry to deal with the transboundary movement of the hazardous and other wastes in accordance with the provisions of these rules.

12. **Strategy for import and export of hazardous and other wastes.**- (1) No import of the hazardous and other wastes from any country to India for disposal shall be permitted.

(2) The import of hazardous and other wastes from any country shall be permitted only for recycling, recovery, reuse and utilisation including co-processing

(3) The import of hazardous waste in Part A of Schedule III may be allowed to actual users with the prior informed consent of the exporting country and shall require the permission of the Ministry of Environment, Forest and Climate Change.

(4) The import of other wastes in Part B of Schedule III may be allowed to actual users with the permission of the Ministry of Environment, Forest and Climate Change.

(5) The import of other wastes in Part D of Schedule III will be allowed as per procedure given in rule 13 and as per the note below the said Schedule.

(6) No import of the hazardous and other wastes specified in Schedule VI shall be permitted.

(7) The export of hazardous and other wastes from India listed in Part A and Part B of Schedule III and Schedule VI shall be with the permission of Ministry of Environment, Forest and Climate Change. In case of applications for export of hazardous and other waste listed in Part A of Schedule III and Schedule VI, they shall be considered on the basis of prior informed consent of the importing country.

(8) The import and export of hazardous and other wastes not specified in Schedule III but exhibiting the hazardous characteristics outlined in Part C of Schedule III shall require prior written permission of the Ministry of Environment, Forest and Climate Change before it is imported to or exported from India, as the case may be.

Procedure for import of hazardous and other wastes.- (1) Actual users intending to import or transit for transboundary movement of hazardous and other wastes specified in Part A and Part B of Schedule III shall apply in Form 5 along with the documents listed therein, to the Ministry of Environment, Forest and Climate Change for the proposed import together with the prior informed consent of the exporting country in respect of Part A of Schedule III waste, and shall send a copy of the application, simultaneously, to the concerned State Pollution Control Board for information and the acknowledgement in this respect from the concerned State Pollution Control Board shall be submitted to the Ministry of Environment, Forest and Climate Change along with the application.

(2) For the import of other wastes listed in Part D of Schedule III, the importer shall not require the permission of the Ministry of Environment, Forest and Climate Change. However, the importer shall furnish the required information as per Form 6 to the Customs authorities, accompanied with the following documents in addition to those listed in Schedule VIII, wherever applicable. For used electrical and electronic assemblies listed at serial numbers 4 (e) to 4(i) of Schedule VIII (Bareil No. B1110), there is no specific requirement of documentation under these rules:

- (a) the import license from Directorate General of Foreign Trade, if applicable;
- (b) the valid consents under the Water (Prevention and Control of Pollution) Act, 1974 (25 of 1974) and the Air (Prevention and Control of Pollution) Act, 1981 (21 of 1981) and the authorisation under these rules as well as the authorisation under the E-Waste (Management and Handling) Rules, 2011, as amended from time to time, whichever applicable;
- (c) importer who is a trader, importing waste on behalf of actual users, shall obtain one time authorisation in Form 7 and copy of this authorisation shall be appended to Form 6

(3) For Part B of Schedule III, in case of import of any used electrical and electronic assemblies or spares or part or component or consumables as listed under Schedule I of the E-Waste (Management and Handling) Rules, 2011, as amended from time to time, the importer need to obtain extended producer responsibility-authorisation as producer under the said E-Waste (Management and Handling) Rules, 2011.

(4) Prior to clearing of consignment of wastes listed in Part D of Schedule III, the Custom authorities shall verify the documents as given in column (3) of Schedule VIII.

(5) On receipt of the complete application with respect to Part A and Part B of Schedule III, the Ministry of Environment, Forest and Climate Change shall examine the application considering the comments and observations, if any, received from the State Pollution Control Boards, and may grant the permission for import within a period of sixty days subject to the condition that the importer has -

- (i) the environmentally sound facilities;
- (ii) adequate arrangements for treatment and disposal of wastes generated;
- (iii) a valid authorisation and consents from the State Pollution Control Board;
- (iv) prior informed consent from the exporting country in case of Part A of Schedule III wastes.

(6) The Ministry of Environment, Forest and Climate Change shall forward a copy of the permission to the concerned Port and Customs authorities, Central Pollution Control Board and the concerned State Pollution Control Board for ensuring compliance with respect to their respective functions given in Schedule VII.

(7) The importer of the hazardous and other wastes shall maintain records of the hazardous and other waste imported by him in Form 3 and the record so maintained shall be made available for inspection.

(8) The importer of the hazardous and other wastes shall file an annual return in Form 4 to the State Pollution Control Board on or before the 30th day of June following the financial year to which that return relates.

(9) Samples of hazardous and other wastes being imported for testing or research and development purposes up to 1000 gm or 1000 ml shall be exempted from need of taking permission for import under these rules.

(10) The Port and Customs authorities shall ensure that shipment is accompanied with the movement document as given in Form 6 and the test report of analysis of the waste, consignment, wherever applicable, from a laboratory accredited or recognised by the exporting country. In case of any doubt, the customs may verify the analysis.

14. Procedure for Export of hazardous and other wastes from India.- (1) Any occupier intending to export waste specified in Part A of Schedule III, Part B of Schedule III and Schedule VI, shall make an application in Form 5 along with insurance cover to the Ministry of Environment, Forest and Climate Change for the proposed transboundary movement of the hazardous and other wastes together with the prior informed consent in writing from the importing country in respect of wastes specified in Part A of Schedule III and Schedule VI.

(2) On receipt of an application under sub-rule (1), the Ministry of Environment, Forest and Climate Change may give permission for the proposed export within a period of sixty days from the date of submission of complete application and may impose such conditions as it may consider necessary.

(3) The Ministry of Environment, Forest and Climate Change shall forward a copy of the permission granted under sub-rule (2) to the State Pollution Control Board of the State where the waste is generated and the Pollution Control Board of the State where the port of export is located and the concerned Port and Customs authorities for ensuring compliance of the conditions of the export permission.

(4) The exporter shall ensure that no consignment is shipped before the prior informed consent is received from the importing country, wherever applicable.

(5) The exporter shall also ensure that the shipment is accompanied with movement document in Form 6.

(6) The exporter of the hazardous and other wastes shall maintain the records of the hazardous or other waste exported by him in Form 3 and the record so maintained shall be available for inspection.

15. Illegal traffic.- (1) The export and import of hazardous or other wastes from and into India, respectively shall be deemed illegal, if,-

- (i) it is without permission of the Central Government in accordance with these rules, or
- (ii) the permission has been obtained through falsification, mis-representation or fraud; or
- (iii) it does not conform to the shipping details provided in the movement documents; or

- (iv) it results in deliberate disposal (i.e., dumping) of hazardous or other waste in contravention of the Basel Convention and of general principles of international or domestic law.

(2) In case of illegal import of the hazardous or other waste, the importer shall re-export the waste in question at his cost within a period of ninety days from the date of its arrival into India and its implementation will be ensured by the concerned Port and the Custom authority. In case of disposal of such waste by the Port and Custom authorities, they shall do so in accordance with these rules with the permission of the Pollution Control Board of the State where the Port exists.

(3) In case of illegal import of hazardous or other waste, where the importer is not traceable then the waste either can be sold by the Customs authority to any user having authorisation under these rules from the concerned State Pollution Control Board or can be sent to authorised treatment, storage and disposal facility.

CHAPTER - IV

TREATMENT, STORAGE AND DISPOSAL FACILITY FOR HAZARDOUS AND OTHER WASTES

16. **Treatment, storage and disposal facility for hazardous and other wastes.**- (1) The State Government, occupier, operator of a facility or any association of occupiers shall individually or jointly or severally be responsible for identification of sites for establishing the facility for treatment, storage and disposal of the hazardous and other waste in the State.

(2) The operator of common facility or occupier of a captive facility, shall design and set up the treatment, storage and disposal facility as per technical guidelines issued by the Central Pollution Control Board in this regard from time to time and shall obtain approval from the State Pollution Control Board for design and layout in this regard.

~~(3) The State Pollution Control Board shall monitor the setting up and operation of the common or captive treatment, storage and disposal facility, regularly~~

(4) The operator of common facility or occupier of a captive facility shall be responsible for safe and environmentally sound operation of the facility and its closure and post closure phase, as per guidelines or standard operating procedures issued by the Central Pollution Control Board from time to time.

(5) The operator of common facility or occupier of a captive facility shall maintain records of hazardous and other wastes handled by him in Form 3.

(6) The operator of common facility or occupier of a captive facility shall file an annual return in Form 4 to the State Pollution Control Board on or before the 30th day of June following the financial year to which that return relates.

CHAPTER - V

PACKAGING, LABELLING, AND TRANSPORT OF HAZARDOUS AND OTHER WASTES.

17. Packaging and Labelling.- (1) Any occupier handling hazardous or other wastes and operator of the treatment, storage and disposal facility shall ensure that the hazardous and other wastes are packaged in a manner suitable for safe handling, storage and transport as per the guidelines issued by the Central Pollution Control Board from time to time. The labelling shall be done as per Form 8.

(2) The label shall be of non-washable material, weather proof and easily visible.

18. Transportation of hazardous and other wastes.- (1) The transport of the hazardous and other waste shall be in accordance with the provisions of these rules and the rules made by the Central Government under the Motor Vehicles Act, 1988 and the guidelines issued by the Central Pollution Control Board from time to time in this regard.

(2) The occupier shall provide the transporter with the relevant information in Form 9, regarding the hazardous nature of the wastes and measures to be taken in case of an emergency and shall label the hazardous and other wastes containers as per Form 8.

(3) In case of transportation of hazardous and other waste for final disposal to a facility existing in a State other than the State where the waste is generated, the sender shall obtain 'No Objection Certificate' from the State Pollution Control Board of both the States.

(4) In case of transportation of hazardous and other waste for recycling or utilisation including co-processing, the sender shall intimate both the State Pollution Control Boards before handing over the waste to the transporter.

(5) In case of transit of hazardous and other waste for recycling, utilisation including co-processing or disposal through a State other than the States of origin and destination, the sender shall give prior intimation to the concerned State Pollution Control Board of the States of transit before handing over the wastes to the transporter.

(6) In case of transportation of hazardous and other waste, the responsibility of safe transport shall be either of the sender or the receiver whosoever arranges the transport and has the necessary authorisation for transport from the concerned State Pollution Control Board. This responsibility should be clearly indicated in the manifest.

(7) The authorisation for transport shall be obtained either by the sender or the receiver on whose behalf the transport is being arranged.

19. Manifest system (Movement Document) for hazardous and other waste to be used within the country only.- (1) The sender of the waste shall prepare seven copies of the manifest in Form 10 comprising of colour code indicated below and all seven copies shall be signed by the sender.

Copy number with colour code	Purpose
(1)	(2)
Copy 1 (White)	To be forwarded by the sender to the State Pollution Control Board after signing all the seven copies.
Copy 2 (Yellow)	To be retained by the sender after taking signature on it from the transporter and the rest of the five signed copies to be carried by the transporter.
Copy 3 (Pink)	To be retained by the receiver (actual user or treatment storage and disposal facility operator) after receiving the waste and the remaining four copies are to be duly signed by the receiver.
Copy 4 (Orange)	To be handed over to the transporter by the receiver after accepting waste.
Copy 5 (Green)	To be sent by the receiver to the State Pollution Control Board.
Copy 6 (Blue)	To be sent by the receiver to the sender.
Copy 7 (Grey)	To be sent by the receiver to the State Pollution Control Board of the sender in case the sender is in another State.

(2) The sender shall forward copy 1 (white) to the State Pollution Control Board, and in case the hazardous or other wastes is likely to be transported through any transit State, the sender shall intimate State Pollution Control Boards of transit States about the movement of the waste.

(3) No transporter shall accept waste from the sender for transport unless it is accompanied by signed copies 3 to 7 of the manifest.

(4) The transporter shall submit copies 3 to 7 of the manifest duly signed with date to the receiver along with the waste consignment.

(5) The receiver after acceptance of the waste shall hand over copy 4 (orange) to the transporter and send copy 5 (green) to his State Pollution Control Board and send copy 6 (blue) to the sender and the copy 3 (pink) shall be retained by the receiver.

(6) The copy 7 (grey) shall only be sent to the State Pollution Control Board of the sender, if the sender is in another State.

CHAPTER VI MISCELLANIOUS

20. **Records and returns.**- (1) The occupier handling hazardous or other wastes and operator of disposal facility shall maintain records of such operations in Form 3.

(2) The occupier handling hazardous and other wastes and operator of disposal facility shall send annual returns to the State Pollution Control Board in Form 4.

(3) The State Pollution Control Board based on the annual returns received from the occupiers and the operators of the facilities for disposal of hazardous and other wastes shall prepare an annual inventory of the waste generated; waste recycled, recovered, utilised including co-processed; waste re-exported and waste disposed and submit to the Central Pollution Control Board by the 30th day of September every year. The State Pollution Control Board shall also prepare the inventory of hazardous waste generators, actual users, and common and captive

disposal facilities and shall submit the information to Central Pollution Control Board every two years.

(4) The Central Pollution Control Board shall prepare the consolidated review report on management of hazardous and other wastes and forward it to the Ministry of Environment, Forest and Climate Change, along with its recommendations before the 30th day of December once in every year.

21. **Responsibility of authorities.** - The authority specified in column (2) of Schedule VII shall perform the duties as specified in column (3) of the said Schedule subject to the provisions of these rules.

22. **Accident reporting.** - Where an accident occurs at the facility of the occupier handling hazardous or other wastes and operator of the disposal facility or during transportation, the occupier or the operator or the transporter shall immediately intimate the State Pollution Control Board through telephone, e-mail about the accident and subsequently send a report in Form 11.

23. **Liability of occupier, importer or exporter and operator of a disposal facility.-**

(1) The occupier, importer or exporter and operator of the disposal facility shall be liable for all damages caused to the environment or third party due to improper handling and management of the hazardous and other waste.

(2) The occupier and the operator of the disposal facility shall be liable to pay financial penalties as levied for any violation of the provisions under these rules by the State Pollution Control Board with the prior approval of the Central Pollution Control Board.

24. **Appeal.-** (1) Any person aggrieved by an order of suspension or cancellation or refusal of authorisation or its renewal passed by the State Pollution Control Board may, within a period of thirty days from the date on which the order is communicated to him, prefer an appeal in Form 12 to the Appellate Authority, namely, the Environment Secretary of the State.

(2) The Appellate Authority may entertain the appeal after expiry of the said period of thirty days, if it is satisfied that the appellant was prevented by sufficient cause from filing the appeal in time.

(3) Every appeal filed under this rule shall be disposed of within a period of sixty days from the date of its filing.

SCHEDULE I
(See rule 3 (1) (17) (i))

List of processes generating hazardous wastes

S.No. (1)	Processes (2)	Hazardous Waste* (3)
1.	Petrochemical processes and pyrolytic operations	1.1 Furnace or reactor residue and debris 1.2 Tarry residues and still bottoms from distillation 1.3 Oily sludge emulsion 1.4 Organic residues 1.5 Residues from alkali wash of fuels

	(2)	(3)
		1.6 Spent catalyst and molecular sieves 1.7 Oil from wastewater treatment
2.	Crude oil and natural gas production	2.1 Drill cuttings excluding those from water based mud 2.2 Sludge containing oil 2.3 Drilling mud containing oil
3.	Cleaning, emptying and maintenance of petroleum oil storage tanks including ships	3.1 cargo residue, washing water and sludge containing oil 3.2 cargo residue and sludge containing chemicals 3.3 Sludge and filters contaminated with oil 3.4 Ballast water containing oil from ships
4.	Petroleum refining or re-processing of used oil or recycling of waste oil	4.1 Oil sludge or emulsion 4.2 Spent catalyst 4.3 Slop oil 4.4 Organic residue from processes 4.5 Spent clay containing oil
5.	Industrial operations using mineral or synthetic oil as lubricant in hydraulic systems or other applications	5.1 Used or spent oil 5.2 Wastes or residues containing oil 5.3 Waste cutting oils
6.	Secondary production and / or industrial use of zinc	6.1 Sludge and filter press cake arising out of production of Zinc Sulphate and other Zinc Compounds 6.2 Zinc fines or dust or ash or skimmings in dispersible form 6.3 Other residues from processing of zinc ash or skimmings 6.4 Flue gas dust and other particulates
7.	Primary production of zinc or lead or copper and other non-ferrous metals except aluminium	7.1 Flue gas dust from roasting 7.2 Process residues 7.3 Arsenic-bearing sludge 7.4 Non-ferrous metal bearing sludge and residue. 7.5 Sludge from scrubbers
8.	Secondary production of copper	8.1 Spent electrolytic solutions 8.2 Sludge and filter cakes 8.3 Flue gas dust and other particulates
9.	Secondary production of lead	9.1 Lead bearing residues 9.2 Lead ash or particulate from flue gas 9.3 Acid from used batteries
10.	Production and/or industrial use of cadmium and arsenic and their compounds	10.1 Residues containing cadmium and arsenic
11.	Production of primary and secondary aluminum	11.1 Sludges from off-gas treatment 11.2 Cathode residues including pot lining wastes 11.3 Tar containing wastes 11.4 Flue gas dust and other particulates 11.5 Drosses and waste from treatment of salt sludge

(1)	(2)	(3)
		11.6 Used anode butts 11.7 Vanadium sludge from alumina refineries
12.	Metal surface treatment, such as etching, staining, polishing, galvanizing, cleaning, degreasing, plating, etc.	12.1 Acidic and alkaline residues 12.2 Spent acid and alkali 12.3 Spent bath and sludge containing sulphide, cyanide and toxic metals 12.4 Sludge from bath containing organic solvents 12.5 Phosphate sludge 12.6 Sludge from staining bath 12.7 Copper etching residues 12.8 Plating metal sludge
13.	Production of iron and steel including other ferrous alloys (electric furnace; steel rolling and finishing mills; Coke oven and by products plant)	13.1 Spent pickling liquor 13.2 Sludge from acid recovery unit 13.3 Benzol acid sludge 13.4 Decanter tank tar sludge 13.5 Tar storage tank residue 13.6 Residues from coke oven by product plant.
14.	Hardening of steel	14.1 Cyanide-, nitrate-, or nitrite -containing sludge 14.2 Spent hardening salt
15.	Production of asbestos or asbestos-containing materials	15.1 Asbestos-containing residues 15.2 Discarded asbestos 15.3 Dust or particulates from exhaust gas treatment.
16.	Production of caustic soda and chlorine	16.1 Mercury bearing sludge generated from mercury cell process 16.2 Residue or sludges and filter cakes 16.3 Brine sludge
17.	Production of mineral acids	17.1 Process acidic residue, filter cake, dust 17.2 Spent catalyst
18.	Production of nitrogenous and complex fertilizers	18.1 Spent catalyst 18.2 Carbon residue 18.3 Sludge or residue containing arsenic 18.4 Chromium sludge from water cooling tower
19.	Production of phenol	19.1 Residue or sludge containing phenol 19.2 Spent catalyst
20.	Production and/or industrial use of solvents	20.1 Contaminated aromatic, aliphatic and naphthenic solvents may or may not be fit for reuse. 20.2 Spent solvents 20.3 Distillation residues 20.4 Process Sludge
21.	Production and/or industrial use of paints, pigments, lacquers, varnishes and inks	21.1 Process wastes, residues and sludges 21.2 Spent solvent
22.	Production of plastics	22.1 Spent catalysts 22.2 Process residues
23.	Production and /or industrial use of glues, organic cements,	23.1 Wastes or residues (not made with vegetable or animal materials)

(1)	(2)	(3)
	adhesive and resins	23.2 Spent solvents
24.	Production of canvas and textiles	24.1 Chemical residues
25.	Industrial production and formulation of wood preservatives	25.1 Chemical residues 25.2 Residues from wood alkali bath
26.	Production or industrial use of synthetic dyes, dye-intermediates and pigments	26.1 Process waste sludge/residues containing acid, toxic metals, organic compounds 26.2 Dust from air filtration system 26.3 Spent acid 26.4 Spent solvent 26.5 Spent catalyst
27.	Production of organic-silicone compound	27.1 Process residues
28.	Production/formulation of drugs/pharmaceutical and health care product	28.1 Process Residue and wastes 28.2 Spent catalyst 28.3 Spent carbon 28.4 Off specification products 28.5 Date-expired products 28.6 Spent solvents
29.	Production, and formulation of pesticides including stock-piles	29.1 Process wastes or residues 29.2 Sludge containing residual pesticides 29.3 Date-expired and off-specification pesticides 29.4 Spent solvents 29.5 Spent catalysts 29.6 Spent acids
30.	Leather tanneries	30.1 Chromium bearing residue and sludge
31.	Electronic Industry	31.1 Process residue and wastes 31.2 Spent etching chemicals and solvents
32.	Pulp and Paper Industry	32.1 Spent chemicals 32.2 Corrosive wastes arising from use of strong acid and bases 32.3 Process sludge containing adsorbable organic halides(AO _x)
33.	Handling of hazardous chemicals and wastes	33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes 33.2 Contaminated cotton rags or other cleaning materials
34.	De-contamination of barrels / containers used for handling of hazardous wastes/chemicals	34.1 Chemical-containing residue arising from decontamination. 34.2 Sludge from treatment of waste water arising out of cleaning / disposal of barrels / containers
35.	Purification and treatment of exhaust air/gases, water and waste water from the processes in this schedule and common industrial effluent treatment plants (CETP's)	35.1 Exhaust Air or Gas cleaning residue 35.2 Spent ion exchange resin containing toxic metals 35.3 Chemical sludge from waste water treatment 35.4 Oil and grease skimming 35.5 Chromium sludge from cooling water
36.	Purification process for organic	36.1 Any process or distillation residue

	(2)	(3)
37.	compounds/solvents Hazardous waste treatment processes, e.g. pre-processing, incineration and concentration	36.2 Spent carbon or filter medium 37.1 Sludge from wet scrubbers 37.2 Ash from incinerator and flue gas cleaning residue 37.3 Concentration or evaporation residues
38.	Chemical processing of Ores containing heavy metals such as Chromium, Manganese, Nickel, Cadmium etc.	38.1 Process residues 38.2 Spent acid

- The inclusion of wastes contained in this Schedule does not preclude the use of Schedule II to demonstrate that the waste is not hazardous. In case of dispute, the matter would be referred to the Technical Review Committee constituted by Ministry of Environment, Forest and Climate Change.

Note: The high volume low effect wastes such as fly ash, Phosphogypsum, red mud, jarosite, Slags from pyrometallurgical operations, mine tailings and ore beneficiation rejects are excluded from the category of hazardous wastes. Separate guidelines on the management of these wastes shall be issued by Central Pollution Control Board.

SCHEDULE II
[See rule 3 (1) (17) (ii)]

List of waste constituents with concentration limits

Class A: Based on leachable concentration limits [Toxicity Characteristic Leaching Procedure (TCLP) or Soluble Threshold Limit Concentration (STLC)]

Class	Constituents	Concentration in mg/l
(1)	(2)	(3)
A1	Arsenic	5.0
A2	Barium	100.0
A3	Cadmium	1.0
A4	Chromium and/or Chromium (III) compounds	5.0
A5	Lead	5.0
A6	Manganese	10.0
A7	Mercury	0.2
A8	Selenium	1.0
A9	Silver	5.0
A10	Ammonia	50*
A11	Cyanide	20*
A12	Nitrate (as nitrate-nitrogen)	1000.0
A13	Sulphide (as H ₂ S)	5.0
A14	1,1-Dichloroethylene	0.7
A15	1,2-Dichloroethane	0.5
A16	1,4-Dichlorobenzene	7.5
A17	2,4,5-Trichlorophenol	400.0
A18	2,4,6-Trichlorophenol	2.0
A19	2,4-Dinitrotoluene	0.13
A20	Benzene	0.5
A21	Benzo (a) Pyrene	0.001
A22	Bromodichloromethane	6.0
A23	Bromoform	10.0
A24	Carbon tetrachloride	0.5
A25	Chlorobenzene	100.0
A26	Chloroform	6.0
A27	Cresol (ortho+ meta+ para)	200.0
A28	Dibromochloromethane	10.0
A29	Hexachlorobenzene	0.13
A30	Hexachlorobutadiene	0.5
A31	Hexachloroethane	3.0
A32	Methyl ethyl ketone	200.0
A33	Naphthalene	5.0
A34	Nitrobenzene	2.0
A35	Pentachlorophenol	100.0
A36	Pyridine	5.0
A37	Tetrachloroethylene	0.7
A38	Trichloroethylene	0.5

(1)	(2)	(3)
A39	Vinyl chloride	0.2
A40	2,4,5-TP (Silvex)	1.0
A41	2,4-Dichlorophenoxyacetic acid	10.0
A42	Alachlor	2.0
A43	Alpha HCH	0.001
A44	Atrazine	0.2
A45	Beta HCH	0.004
A46	Butachlor	12.5
A47	Chlordane	0.03
A48	Chlorpyrifos	9.0
A49	Delta HCH	0.004
A50	Endosulfan (alpha+ beta+ sulphate)	0.04
A51	Endrin	0.02
A52	Ethion	0.3
A53	Heptachlor (& its Epoxide)	0.008
A54	Isoproturon	0.9
A55	Lindane	0.4
A56	Malathion	19
A57	Methoxychlor	10
A58	Methyl parathion	0.7
A59	Monocrotophos	0.1
A60	Phorate	0.2
A61	Toxaphene	0.5
A62	Antimony	15
A63	Beryllium	0.75
A64	Chromium (VI)	5.0
A65	Cobalt	80.0
A66	Copper	25.0
A67	Molybdenum	350
A68	Nickel	20.0
A69	Thallium	7.0
A70	Vanadium	24.0
A71	Zinc	250
A72	Fluoride	180.0
A73	Aldrin	0.14
A74	Dichlorodiphenyltrichloroethane (DDT), Dichlorodiphenyldichloroethylene (DDE), Dichlorodiphenyldichloroethane (DDD)	0.1
A75	Dieldrin	0.8
A76	Kepone	2.1
A77	Mirex	2.1
A78	Polychlorinated biphenyls	5.0
A79	Dioxin (2,3,7,8-TCDD)	0.001

Class B: Based on Total Threshold Limit Concentration (TTLC)

Class	Constituent	Concentration in mg/kg
(1)	(2)	(3)
B1	Asbestos	10000
B2	Total Petroleum Hydrocarbons (TPH) (C5 - C36)	5,000

Note:

- (1) The testing method for list of constituents at A1 to A61 in Class-A, shall be based on Toxicity Characteristic Leaching Procedure (TCLP) and for extraction of leachable constituents, USEPA Test Method 1311 shall be used.
- (2) The testing method for list of constituents at A62 to A79 in Class- A, shall be based on Soluble Threshold Limit Concentration (STLC) and Waste Extraction Test (WET) Procedure given in Appendix II of section 66261 of Title 22 of California Code regulation (CCR) shall be used.
- (3) In case of ammonia (A10), cyanide (A11) and chromium VI (A64), extractions shall be conducted using distilled water in place of the leaching media specified in the TCLP/STLC procedures.
- (4) A summary of above specified leaching/extraction procedures is included in manual for characterization and analysis of hazardous waste published by Central Pollution Control Board and in case the method is not covered in the said manual, suitable reference method may be adopted for the measurement.
- (5) In case of asbestos, the specified concentration limits apply only if the substances are in a friable, powdered or finely divided state.
- (6) The hazardous constituents to be analyzed in the waste shall be relevant to the nature of the industry and the materials used in the process.
- (7) Wastes which contain any of the constituents listed below shall be considered as hazardous, provided they exhibit the characteristics listed in Class-C of this Schedule :

1.	Acid Amides
2.	Acid anhydrides
3.	Amines
4.	Anthracene
5.	Aromatic compounds other than those listed in Class A
6.	Bromates, (hypo-bromites)
7.	Chlorates (hypo-chlorites)
8.	Carbonyls
9.	Ferro-silicate and alloys
10.	Halogen- containing compounds which produce acidic vapours on contact with humid air or water e.g. silicon tetrachloride, aluminum chloride, titanium tetrachloride
11.	Halogen- silanes
12.	Halogenated Aliphatic Compounds
13.	Hydrazine (s)

14.	Hydrides
15.	Inorganic Acids
16.	Inorganic Peroxides
17.	Inorganic Tin Compounds
18.	Iodates
19.	(Iso- and thio-) Cyanates
20.	Manganese-silicate
21.	Mercaptans
22.	Metal Carbonyls
23.	Metal hydrogen sulphates
24.	Nitrides
25.	Nitriles
26.	Organic azo and azoxy Compounds
27.	Organic Peroxides
28.	Organic Oxygen Compounds
29.	Organic Sulphur Compounds
30.	Organo- Tin Compounds
31.	Organo nitro- and nitroso compounds
32.	Oxides and hydroxides except those of hydrogen, carbon, silicon, iron, aluminum, titanium, manganese, magnesium, calcium
33.	Phenanthrene
34.	Phenolic Compounds
35.	Phosphate compounds except phosphates of aluminum, calcium and iron
36.	Salts of pre-acids
37.	Total Sulphur
38.	Tungsten Compounds
39.	Tellurium and tellurium compounds
40.	White and Red Phosphorus
41.	2-Acetylaminofluorene
42.	4-Aminodiphenyl
43.	Benzidine and its salts
44.	Bis (Chloromethyl) ether
45.	Methyl chloromethyl ether
46.	1,2-Dibromo-3-chloropropane
47.	3,3'-Dichlorobenzidine and its salts
48.	4-Dimethylaminoazobenzene
49.	4-Nitrobiphenyl
50.	Beta-Propiolactone

CLASS C : Based on hazardous Characteristics

Apart from the concentration limit given above, the substances or wastes shall be classified as hazardous waste if it exhibits any of the following characteristics due to the presence of any hazardous constituents:

➤ **Class C1: Flammable-** A waste exhibits the characteristic of flammability or ignitability if a representative sample of the waste has any of the following properties, namely:-

- (i) flammable liquids, or mixture of liquids, or liquids containing solids in solution or suspension (for example, paints, varnishes, lacquers, etc; but not including substances or wastes otherwise classified on account of their dangerous characteristics), which give off a flammable vapour at temperature less than 60°C. This flash point shall be measured as per ASTM D 93-79 closed-cup test method or as determined by an equivalent test method published by Central Pollution Control Board;
- (ii) it is not a liquid and is capable, under standard temperature and pressure, of causing fire through friction, absorption of moisture or spontaneous chemical changes and, when ignited, burns vigorously and persistently creating a hazard;
- (iii) it is an ignitable compressed gas;
- (iv) It is an oxidizer and for the purposes of characterisation is a substance such as a chlorate, permanganate, inorganic peroxide, or a nitrate, that yields oxygen readily to stimulate the combustion of organic matter.

Class C2: Corrosive- A waste exhibits the characteristic of corrosivity if a representative sample of the waste has either of the following properties, namely:-

- (i) it is aqueous and has a pH less than or equal to 2 or greater than or equal to 12.5;
- (ii) it is a liquid and corrodes steel (SAE 1020) at a rate greater than 6.35 mm per year at a test temperature of 55 °C;
- (iii) it is not aqueous and, when mixed with an equivalent weight of water, produces a solution having a pH less than or equal to 2 or greater than or equal to 12.5;
- (iv) it is not a liquid and, when mixed with an equivalent weight of water, produces a liquid that corrodes steel (SAE1020) at a rate greater than 6.35 mm per year at a test temperature of 55 °C.

Note:

For the purpose of determining the corrosivity, the Bureau of Indian Standard 9040 C method for pH determination, NACE TM 01 69 : Laboratory Corrosion Testing of Metals and EPA 1110A method for corrosivity towards steel (SAE1020) to establish the corrosivity characteristics shall be adopted.

Class C3: Reactive or explosive- A waste exhibits the characteristic of reactivity if a representative sample of the waste it has any of the following properties, namely:-

- (i) it is normally unstable and readily undergoes violent change without detonating;
- (ii) it reacts violently with water or forms potentially explosive mixtures with water;
- (iii) when mixed with water, it generates toxic gases, vapours or fumes in a quantity sufficient to present a danger to human health or the environment;
- (iv) it is a cyanide or sulphide bearing waste which, when exposed to pH conditions between 2 and 12.5, can generate toxic gases, vapours or fumes in a quantity sufficient to present a danger to human health or the environmental;
- (v) it is capable of detonation or explosive reaction if it is subjected to a strong initiating source or if heated under confinement;
- (vi) it is readily capable of detonation or explosive decomposition or reaction at standard temperature and pressure;
- (vii) it is a forbidden explosive.

Class C4: Toxic- A waste exhibits the characteristic of toxicity, if, :-

- (i) the concentration of the waste constituents listed in Class A and B (of this schedule) are equal to or more than the permissible limits prescribed therein;
- (ii) it has an acute oral LD50 less than 2,500 milligrams per kilogram;
- (iii) it has an acute dermal LD50 less than 4,300 milligrams per kilogram;
- (iv) it has an acute inhalation LC50 less than 10,000 parts per million as a gas or vapour;
- (v) it has acute aquatic toxicity with 50% mortality within 96 hours for zebra fish (*Brachidanio rerio*) at a concentration of 500 milligrams per litre in dilution water and test conditions as specified in BIS test method 6582 - 2001.
- (vi) it has been shown through experience or by any standard reference test- method to pose a hazard to human health or environment because of its carcinogenicity, mutagenicity, endocrine disruptivity, acute toxicity, chronic toxicity, bio-accumulative properties or persistence in the environment

Class C5: Substances or Wastes liable to spontaneous combustion - Substances or Wastes which are liable to spontaneous heating under normal conditions encountered in transport, or to heating up on contact with air, and being then liable to catch fire.

Class C6: Substances or Wastes which, in contact with water emit flammable gases- Substances or Wastes which, by interaction with water, are liable to become spontaneously flammable or to give off flammable gases in dangerous quantities.

Class C5: Oxidizing - Substances or Wastes which, while in themselves not necessarily combustible, may, generally by yielding oxygen cause, or contribute to, the combustion of other materials.

Class C8: Organic Peroxides - Organic substances or Wastes which contain the bivalent O-O structure, which may undergo exothermic self-accelerating decomposition.

Class C9: Poisons (acute) - Substances or Wastes liable either to cause death or serious injury or to harm human health if swallowed or inhaled or by skin contact.

Class C10: Infectious substances - Substances or Wastes containing viable micro-organisms or their toxins which are known or suspected to cause disease in animals or humans.

Class C11: Liberation of toxic gases in contact with air or water - Substances or Wastes which, by interaction with air or water, are liable to give off toxic gases in dangerous quantities.

Class C12: Eco-toxic- Substances or Wastes which if released, present or may present immediate or delayed adverse impacts to the environment by means of bioaccumulation or toxic effects upon biotic systems or both.

Class C13: Capable, by any means, after disposal, of yielding another material, e.g., leachate, which possesses any of the characteristics listed above.

SCHEDULE III

17/29/168

[See rules 3 (1) (17) (iii), 3 (23), 12, 13 and 14]

Part A

List of hazardous wastes applicable for import and export with Prior Informed Consent [Annexure VIII of the Basel Convention*]

Basel No.	Description of Hazardous Wastes
(1)	(2)
A1	Metal and Metal bearing wastes
A1010	Metal wastes and waste consisting of alloys of any of the following but excluding such wastes specifically listed in Part B and Part D <ul style="list-style-type: none"> - Antimony - Cadmium - Lead - Tellurium
A1020	Waste having as constituents or contaminants, excluding metal wastes in massive form, any or the following <ul style="list-style-type: none"> - Antimony, antimony compounds - Cadmium, cadmium compounds - Lead, lead compounds - Tellurium, tellurium compounds
A1040	Waste having metal carbonyls as constituents
A1050	Galvanic sludges
A1070	Leaching residues from zinc processing, dust and sludges such as jarosite, hematite, etc.
A1080	Waste zinc residues not included in Part B, containing lead and cadmium in concentrations sufficient to exhibit hazard characteristics indicated in Part C
A1090	Ashes from the incineration of insulated copper wire
A1100	Dusts and residues from gas cleaning systems of copper smelters
A1120	Waste sludges, excluding anode slimes, from electrolyte purification systems in copper electrorefining and electrowinning operations
A1140	Waste cupric chloride and copper cyanide catalysts not in liquid form note the related entry in Schedule VI
A1150	Precious metal ash from incineration of printed circuit boards not included in Part B
A1160	Waste lead acid batteries, whole or crushed
A1170	Unsorted waste batteries excluding mixtures of only Part B batteries. Waste batteries not specified in Part B containing constituents mentioned in Schedule II to an extent to render them hazardous
A2	Wastes containing principally inorganic constituents, which may contain metals and organic materials
A2010	Glass waste from cathode-ray tubes and other activated glasses
A2030	Waste catalysts but excluding such wastes specified in Part B
A3	Wastes containing principally organic constituents, which may contain metals and inorganic materials
A3010	Waste from the production or processing of petroleum coke and bitumen
A3020	Waste mineral oils unfit for their originally intended use
A3050	Wastes from production, formulation and use of resins, latex, plasticizers, glues or adhesives excluding such wastes specified in Part B (B4020)
A3120	Fluff-light fraction from shredding

(1)	(2)
A3130	Waste organic phosphorus compounds
A4	Wastes which may contain either inorganic or organic constituents
A4010	Wastes from the production, preparation and use of pharmaceutical products but excluding such waste specified in Part B
A4040	Wastes from the manufacture, formulation and use of wood-preserving chemicals (does not include wood treated with wood preserving chemicals)
A4070	Waste from the production, formulation and use of inks, dyes, pigments, paints, lacquers, varnish excluding those specified in Part B (B4010)
A4100	Wastes from industrial pollution control devices for cleaning of industrial off-gases but excluding such wastes specified in Part B
A4120	Wastes that contain, consist of or are contaminated with peroxides.
A4130	Wastes packages and containers containing Schedule II constituents in concentration sufficient to exhibit Part C of Schedule III hazard characteristics.
A4140	Waste consisting of or containing off specification or outdated chemicals (unused within the period recommended by the manufacturer) corresponding to constituents mentioned in Schedule II and exhibiting Part C of Schedule III hazard characteristics.
A4160	Spent activated carbon not included in Part B, B2060

*This List is based on Annexure VIII of the Basel Convention on Transboundary Movement of Hazardous Wastes and comprises of wastes characterized as hazardous under Article I, paragraph 1(a) of the Convention. Inclusion of wastes on this list does not preclude the use of hazard.

Characteristics given in Annexure VIII of the Basel Convention (Part C of this Schedule) to demonstrate that the wastes are not hazardous. Hazardous wastes in Part-A are restricted and cannot be allowed to be imported without permission from the Ministry of Environment, Forest and Climate Change and the Directorate General of Foreign Trade license, if applicable.

Part B

List of other wastes applicable for import and export and not requiring Prior Informed Consent [Annex IX of the Basel Convention*]

Basel No.	Description of wastes
(1)	(2)
B1	Metal and metal-bearing wastes
B1010	Metal and metal-alloy wastes in metallic, non-dispersible form: <ul style="list-style-type: none"> - Thorium scrap - Rare earths scrap
B1020	Clean, uncontaminated metal scrap, including alloys, in bulk finished form (sheet, plates, beams, rods, etc.), of: <ul style="list-style-type: none"> - Antimony scrap - Beryllium scrap - Cadmium scrap - Lead scrap (excluding lead acid batteries) - Selenium scrap - Tellurium scrap
B1030	Refractory metals containing residues

#1	(2)
B1031	Molybdenum, tungsten, titanium, tantalum, niobium and rhenium metal and metal alloy wastes in metallic dispersible form (metal powder), excluding such wastes as specified in Part A under entry A1050, Galvanic sludges
B1040	Scrap assemblies from electrical power generation not contaminated with lubricating oil, PCB or PCT to an extent to render them hazardous
B1050	Mixed non-ferrous metal, heavy fraction scrap, containing cadmium, antimony, lead & tellurium mentioned in Schedule II in concentrations sufficient to exhibit Part C characteristics
B1060	Waste selenium and tellurium in metallic elemental form including powder
B1070	Waste of copper and copper alloys in dispersible form, unless they contain any of the constituents mentioned in Schedule II to an extent that they exhibit Part C characteristics
B1080	Zinc ash and residues including zinc alloys residues in dispersible form unless they contain any of the constituents mentioned in Schedule II in concentration such as to exhibit Part C characteristics
B1090	Waste batteries conforming to a standard battery specification, excluding those made with lead, cadmium or mercury
B1100	Metal bearing wastes arising from melting, smelting and refining of metals: <ul style="list-style-type: none"> - Slags from copper processing for further processing or refining containing arsenic, lead or cadmium - Slags from precious metals processing for further refining - Wastes of refractory linings, including crucibles, originating from copper smelting - Tantalum-bearing tin slags with less than 0.5% tin
B1110	Used Electrical and electronic assemblies other than those listed in Part D of Schedule III Electronic assemblies consisting only of metals or alloys Waste electrical and electronic assemblies or scrap (including printed circuit boards) not containing components such as accumulators and other batteries included in Part A of Schedule III, mercury-switches, glass from cathode-ray tubes and other activated glass and PCB-capacitors, or not contaminated with Schedule II constituents such as cadmium, mercury, lead, polychlorinated biphenyl) or from which these have been removed, to an extent that they do not possess any of the characteristics contained in Part C of Schedule III (note the related entry in Schedule VI, A1180)
B1120	Spent catalysts excluding liquids used as catalysts, containing any of: Transition metals, excluding waste catalysts (spent catalysts, liquid used catalysts or other catalysts) in Part A and Schedule VI: <ul style="list-style-type: none"> - Scandium - Vanadium - Manganese - Cobalt - Copper - Yttrium - Niobium - Hafnium - Titanium - Chromium - Iron - Nickel - Zinc - Zirconium - Molybdenum - Tantalum

(1)	(2)
	<ul style="list-style-type: none"> - Tungsten - Rhenium
	Lanthanides (rare earth metals): <ul style="list-style-type: none"> - Lanthanum - Cerium
	<ul style="list-style-type: none"> - Praseodymium - Neodymium - Samarium - Europium - Gadolinium - Terbium - Dysprosium - Holmium - Erbium - Thulium - Ytterbium - Lutetium
B1130	Cleaned spent precious metal bearing catalysts
B1140	Precious metal bearing residues in solid form which contain traces of inorganic cyanides
B1150	Precious metals and alloy wastes (gold, silver, the platinum group but not mercury) in a dispersible form, non-liquid form with appropriate packaging and labelling
B1160	Precious metal ash from the incineration of printed circuit boards (note the related entry in Part A A1150)
B1170	Precious metal ash from the incineration of photographic film
B1180	Waste photographic film containing silver halides and metallic silver
B1190	Waste photographic paper containing silver halides and metallic silver
B1200	Granulated slag arising from the manufacture of iron and steel
B1210	Slag arising from the manufacture of iron and steel including slags as a source of Titanium dioxide and Vanadium
B1220	Slag from zinc production, chemically stabilised, having a high iron content (above 20%) and processed according to industrial specifications mainly for construction
B1230	Mill scale arising from the manufacture of iron and steel
B1240	Copper Oxide mill-scale
B2	Wastes containing principally inorganic constituents, which may contain metals and organic materials
B2010	Wastes from mining operations in non-dispersible form: <ul style="list-style-type: none"> - Natural graphite waste - Slate wastes - Mica wastes - Leucite, nepheline and nepheline syenite waste - Feldspar waste - Fluorspar waste - Silica wastes in solid form excluding those used in foundry operations
B2020	Glass wastes in non-dispersible form: <ul style="list-style-type: none"> - Cullet and other waste and scrap of glass except for glass from cathode-ray tubes and other activated glasses
B2030	Ceramic wastes in non-dispersible form: <ul style="list-style-type: none"> - Cermet wastes and scrap (metal ceramic composites) - Ceramic based fibres
B2040	Other wastes containing principally inorganic constituents: <ul style="list-style-type: none"> - Partially refined calcium sulphate produced from flue gas desulphurization (FGD) - Waste gypsum wallboard or plasterboard arising from the demolition of buildings

(1)	(2)
	<ul style="list-style-type: none"> - Slag from copper production, chemically stabilized, having a high iron content (above 20%) and processed according to industrial specifications mainly for construction and abrasive applications - Sulphur in solid form - Limestone from production of calcium cyanamide (pH<9) - Sodium, potassium, calcium chlorides - Carborundum (silicon carbide) - Broken concrete - Lithium-tantalum and lithium-niobium containing glass scraps
B2060	Spent activated carbon not containing any of Schedule II constituents to the extent they exhibit Part C characteristics, for example, carbon resulting from the treatment of potable water and processes of the food industry and vitamin production (note the related entry in Part A A4160)
B2070	Calcium fluoride sludge
B2080	Waste gypsum arising from chemical industry processes not included in Schedule VI (note the related entry in A2040)
B2090	Waste anode butts from steel or aluminium production made of petroleum coke or bitumen and cleaned to normal industry specifications (excluding anode butts from chlor alkali electrolyses and from metallurgical industry)
B2100	Waste hydrates of aluminium and waste alumina and residues from alumina production, excluding such materials used for gas cleaning, flocculation or filtration processes
B2130	Bituminous material (asphalt waste) from road construction and maintenance, not containing tar (note the related entry in Schedule VI, A3200)
B3	Wastes containing principally organic constituents, which may contain metals and inorganic materials
B3027	Self-adhesive label laminate waste containing raw materials used in label material production
B3030	<p>Textile wastes</p> <p>The following materials, provided they are not mixed with other wastes and are prepared to a specification</p> <ul style="list-style-type: none"> - Silk waste (including cocoons unsuitable for reeling, yarn waste and garnetted stock) <ul style="list-style-type: none"> • not carded or combed • other - Waste of wool or of fine or coarse animal hair, including yarn waste but excluding garnetted stock <ul style="list-style-type: none"> • noils of wool or of fine animal hair • other waste of wool or of fine animal hair • waste of coarse animal hair - Cotton waste (including yarn waste and garnetted stock) <ul style="list-style-type: none"> • yarn waste (including thread waste) • garnetted stock • other - Flax tow and waste - Tow and waste (including yarn waste and garnetted stock) of true hemp (<i>Cannabis sativa L.</i>) - Tow and waste (including yarn waste and garnetted stock) of jute and other textile bast fibres (excluding flax, true hemp and ramie) - Tow and waste (including yarn waste and garnetted stock) of sisal

(1)	(2)
	and other textile fibres of the genus Agave <ul style="list-style-type: none"> - Tow, noils and waste (including yarn waste and garneted stock) of coconut - Tow, noils and waste (including yarn waste and garneted stock) of abaca (Manila hemp or Musa textilis Nee) - Tow, noils and waste (including yarn waste and garneted stock) of ramie and other vegetable textile fibres, not elsewhere specified or included - Waste (including noils, yarn waste and garneted stock) of man-made fibres <ul style="list-style-type: none"> • of synthetic fibres • of artificial fibres - Worn clothing and other worn textile articles - Used rags, scrap twine, cordage, rope and cables and worn out articles of twine, cordage, rope or cables of textile materials <ul style="list-style-type: none"> • sorted • other
B3035	Waste textile floor coverings, carpets
B3040	Rubber Wastes The following materials, provided they are not mixed with other wastes: <ul style="list-style-type: none"> - Waste and scrap of hard rubber (e.g., ebonite) - Other rubber wastes (excluding such wastes specified elsewhere)
B3050	Untreated cork and wood waste: <ul style="list-style-type: none"> - Wood waste and scrap, whether or not agglomerated in logs, briquettes, pellets or similar forms - Cork waste: crushed, granulated or ground cork
B3060	Wastes arising from agro-food industries provided it is not infectious: <ul style="list-style-type: none"> - Wine lees - Dried and sterilized vegetable waste, residues and by-products, whether or not in the form of pellets, of a kind used in animal feeding, not elsewhere specified or included - Degras: residues resulting from the treatment of fatty substances or animal or vegetable waxes - Waste of bones and horn-cores, unworked, defatted, simply prepared (but not cut to shape), treated with acid or degelatinised - Fish waste - Cocoa shells, husks, skins and other cocoa waste - Other wastes from the agro-food industry excluding by-products which meet national and international requirements and standards for human or animal consumption
B3070	The following wastes: <ul style="list-style-type: none"> - Waste of human hair - Waste straw - Deactivated fungus mycelium from penicillin production to be used as animal feed
B3080	Waste parings and scrap of rubber
B3090	Paring and other wastes of leather or of composition leather not suitable for the manufacture of leather articles, excluding leather sludges, not containing hexavalent chromium compounds and biocides (note the related entry in Schedule VI, A3100)

	(2)
B3100	Leather dust, ash, sludges or flours not containing hexavalent chromium compounds or biocides (note the related entry in Schedule VI, A3090)
B3110	Fellmongery wastes not containing hexavalent chromium compounds or biocides or infectious substances (note the related entry in Schedule VI, A3110)
B3120	Wastes consisting of food dyes
B3130	Waste polymer ethers and waste non-hazardous monomer ethers incapable of forming peroxides
B3140	Waste pneumatic and other tyres, excluding those which do not lead to resource recovery, recycling, reclamation but not for direct reuse
B4	Wastes which may contain either inorganic or organic constituents
B4010	Wastes consisting mainly of water-based or latex paints, inks and hardened varnishes not containing organic solvents, heavy metals or biocides to an extent to render them hazardous (note the related entry in Part A, A4070)
B4020	Wastes from production, formulation and use of resins, latex, plasticizers, glues or adhesives, not listed in Part A, free of solvents and other contaminants to an extent that they do not exhibit Part C characteristics (note the related entry in Part A, A3050)
B4030	Used single-use cameras, with batteries not included in Part A

* This list is based on Annexure IX of the Basel Convention on Transboundary Movement of Hazardous Wastes and comprises of wastes not characterized as hazardous under Article I of the Basel Convention. The wastes in Part- B are restricted and cannot be allowed to be imported without permission from the Ministry of Environment, Forest and Climate Change and the Directorate General of Foreign Trade license, if applicable.

Note:

- (1) Copper dross containing copper greater than 65% and lead and Cadmium equal to or less than 1.25% and 0.1% respectively; spent cleaned metal catalyst containing copper; and copper reverts, cake and residues containing lead and cadmium equal to or less than 1.25% and 0.1% respectively are allowed for import without Director General of Foreign Trade license to units (actual users) authorised by State Pollution Control Board and with the Ministry of Environment, Forest and Climate Change's permission. Copper reverts, cake and residues containing lead and cadmium greater than 1.25% and 0.1% respectively are under restricted category for which import is permitted only against Director General of Foreign Trade license for the purpose of processing or reuse by units permitted with the Ministry of Environment, Forest and Climate Change (actual users).
- (2) Zinc ash or skimmings in dispersible form containing zinc more than 65% and lead and cadmium equal to or less than 1.25% and 0.1% respectively and spent cleaned metal catalyst containing zinc are allowed for import without Director General of Foreign Trade license to units authorised by State Pollution control Board, Ministry of Environment, Forest and Climate Change's permission (actual users) upto an annual quantity limit indicated in registration letter. Zinc ash and skimmings containing less than 65% zinc and lead and cadmium equal to or more than 1.25% and 0.1% respectively and hard zinc spelter and brass dross containing lead greater than 1.25% are under restricted category for which import is permitted against Director General of Foreign Trade license and only for purpose of processing or reuse by units registered with the Ministry of Environment Forest and Climate Change (actual users).

Part C
List of Hazardous Characteristics

<u>Code</u>	<u>Characteristic</u>
H 1	<p>Explosive</p> <p>An explosive substance or waste is a solid or liquid substance or waste (or mixture of substances or wastes) which is in itself capable by chemical reaction of producing gas at such a temperature and pressure and at such a speed as to cause damage to the surrounding.</p>
H 3	<p>Flammable liquids</p> <p>The word "flammable" has the same meaning as "inflammable". Flammable liquids are liquids, or mixtures of liquids, or liquids containing solids in solution or suspension (for example, paints, varnishes, lacquers, etc. but not including substances or wastes otherwise classified on account of their dangerous characteristics) which give off a flammable vapour at temperatures of not more than 60.5°C, closed-cup test, or not more than 65.6°C, open-cup test. (Since the results of open-cups tests and of closed-cup tests are not strictly comparable and even individual results by the same test are often variable, regulations varying from the above figures to make allowance for such differences would be within the spirit of this definition).</p>
H 4:1	<p>Flammable solids</p> <p>Solids, or waste solids, other than those classed as explosives, which under conditions encountered in transport are readily combustible, or may cause or contribute to fire through friction.</p>
H 4.2	<p>Substances or wastes liable to spontaneous combustion</p> <p>Substances or wastes which are liable to spontaneous heating under normal conditions encountered in transport, or to heating up on contact with air, and being then liable to catch fire.</p>
H 4.3	<p>Substances or wastes which, in contact with water emit flammable gases</p> <p>Substances or wastes which, by interaction with water, are liable to become spontaneously flammable or to give off flammable gases in dangerous quantities.</p>
H 5.1	<p>Oxidizing</p> <p>Substances or wastes which, while in themselves not necessarily combustible, may, generally by yielding oxygen cause, or contribute to, the combustion or other materials.</p>
H 5.2	<p>Organic Peroxides</p> <p>Organic substances or wastes which contain the bivalent-o-o-structure are thermally unstable substances which may undergo exothermic self-accelerating decomposition.</p>

H 5.1

Poisons (acute)

Substances or wastes liable either to cause death or serious injury or to harm human health if swallowed or inhaled or by skin contact.

H 6.2

Infectious substances

Substances or wastes containing viable micro-organisms or their toxins which are known or suspected to cause disease in animals or humans.

H 8

Corrosives

Substances or wastes which, by chemical action, will cause severe damage when in contact with living tissue, or, in the case of leakage, will materially damage, or even destroy, other goods or the means of transport; they may also cause other hazards.

H 10

Liberation of toxic gases in contact with air or water

Substances or wastes which, by interaction with air or water, are liable to give off toxic gases in dangerous quantities.

H 11

Toxic (delayed or chronic)

Substances or wastes which, if they are inhaled or ingested or if they penetrate the skin, may involve delayed or chronic effects, including carcinogenicity).

H 12

Eco-toxic

Substances or wastes which if released, present or may present immediate or delayed adverse impacts to the environment by means of bioaccumulation or toxic effects upon biotic systems or both.

H 13

Capable, by any means, after disposal, of yielding another material, e.g., leachate, which possesses any of the characteristics listed above.

Part D

List of other wastes applicable for import and export without permission from Ministry of Environment, Forest and Climate Change [Annex IX of the Basel Convention*]

Basel No. (1)	Description of wastes (2)
B1	Metal and metal-bearing wastes
B1010	<p>Metal and metal-alloy wastes in metallic, non-dispersible form :</p> <ul style="list-style-type: none"> - Precious metals (gold, silver, platinum but not mercury) ** - Iron and steel scrap ** - Nickel scrap ** - Aluminium scrap ** - Zinc scrap ** - Tin scrap ** - Tungsten scrap ** - Molybdenum scrap ** - Tantalum scrap ** - Cobalt scrap ** - Bismuth scrap ** - Titanium scrap ** - Zirconium scrap ** - Manganese scrap ** - Germanium scrap ** - Vanadium scrap ** - Hafnium scrap ** - Indium scrap ** - Niobium scrap ** - Rhenium scrap ** - Gallium scrap ** - Magnesium scrap ** - Copper scrap ** - Chromium scrap **
B1050	Mixed non-ferrous metal, heavy fraction scrap, containing metals other than specified in Part B1050 and not containing constituents mentioned in Schedule II in concentrations sufficient to exhibit Part C characteristics* *
B1100	<p>Metal bearing wastes arising from melting, smelting and refining of metals.</p> <ul style="list-style-type: none"> - Hard Zinc spelter ** - Zinc-containing drosses ** <ul style="list-style-type: none"> ~ Galvanizing slab zinc top dross (>90% Zn) ~ Galvanizing slab zinc bottom dross (>92% Zn) ~ Zinc die casting dross (>85% Zn) ~ Hot dip galvanizers slab zinc dross (batch) (>92% Zn) ~ Zinc skimmings - Aluminium skimmings (or skims) excluding salt slag

41	(2)
B1110	<p>Electrical and electronic assemblies (including printed circuit boards, electronic components and wires) destined for direct reuse and not for recycling or final disposal</p> <ul style="list-style-type: none"> - Used electrical and electronic assemblies imported for repair and to be re-exported back after repair within one year of import * * * - Used electrical and electronic assemblies imported for rental purpose and re-exported back within one year of import * * * - Used electrical and electronic assemblies exported for repair and to be re-import after repair - Used electrical and electronic assemblies imported for testing, research and development, project work purposes and to be re-exported back within a period of three years from the date of import * * * - Spares imported for warranty replacements provided equal number of defective or non-functional parts are exported back within one year of the import * * * - Used electrical and electronic assemblies imported by Ministry of Defence, Department of Space and Department of Atomic Energy * * * - Used electrical and electronic assemblies (not in bulk; quantity less than or equal to three) imported by the individuals for their personal uses - Used Laptop, Personal Computers, Mobile, Tablet up to 01 number each imported by organisations in a year - Used electrical and electronic assemblies owned by individuals and imported on transfer of residence - Used multifunction print and copying machines (MFDs)* * * * - Used electrical and electronic assemblies imported by airlines for aircraft maintenance and remaining either on board or under the custodianship of the respective airlines warehouses located on the airside of the custom bonded areas.
B3	Wastes containing principally organic constituents, which may contain metals and inorganic materials
B3020	<p>Paper, paperboard and paper product wastes * *</p> <p>The following materials, provided they are not mixed with hazardous wastes. Waste and scrap of paper or paperboard of:</p> <ul style="list-style-type: none"> - unbleached paper or paperboard or of corrugated paper or paperboard - other paper or paperboard, made mainly of bleached chemical pulp, not coloured in the mass - paper or paperboard made mainly of mechanical pulp (for example newspapers, journals and similar printed matter) - other, including but not limited to <ul style="list-style-type: none"> (1) laminated paperboard (2) unsorted scrap
B3140	<p>Aircraft Tyres exported to Original Equipment Manufacturers for re-treading and re-imported after re-treading by airlines for aircraft maintenance and remaining either on board or under the custodianship of the respective airlines warehouses located on the airside of the custom bonded areas</p>

Note:

* This list is based on Annexure IX of the Basel Convention on Transboundary Movement of Hazardous Wastes and comprises of wastes not characterized as hazardous under Article-I of the Basel Convention.

.. Import permitted in the country to the actual user or to the trader on behalf of the actual users authorised by SPCB on one time basis and subject to verification of documents specified in Schedule VIII of these rules by the Custom Authority.

*** Import permitted in the country only to the actual users from Original Equipment Manufacturers (OEM) and subject to verification of documents specified in Schedule VIII of these rules by the Custom Authority.

**** Import permitted in the country to the actual users or trader on behalf of the actual user in accordance with the documents required and verified by the Custom Authority as specified under Schedule VIII of these rules. The policy for free trade for multifunction print and copying machine to be reviewed once the MFDs are domestically manufactured.

All other wastes listed in Part D of Schedule III having no "Stars" are permitted without any documents from MoEF&CC subject to compliance of the conditions of the Customs Authority, if any.

SCHEDULE IV

[See rules 6 (1) (ii) and 6 (2)]

List of commonly recyclable hazardous wastes

S.No.	Wastes
(1)	(2)
1.	Brass Dross
2.	Copper Dross
3.	Copper Oxide mill scale
4.	Copper reverts, cake and residue
5.	Waste Copper and copper alloys in dispersible form
6.	Slags from copper processing for further processing or refining
7.	Insulated Copper Wire Scrap or copper with PVC sheathing including ISRI-code material namely "Druid"
8.	Jelly filled Copper cables
9.	Spent cleared metal catalyst containing copper
10.	Spent catalyst containing nickel, cadmium, Zinc, copper, arsenic, vanadium and cobalt
11.	Zinc Dross-Hot dip Galvanizers SLAB
12.	Zinc Dross-Bottom Dross
13.	Zinc ash/Skimmings arising from galvanizing and die casting operations
14.	Zinc ash/Skimming/other zinc bearing wastes arising from smelting and refining
15.	Zinc ash and residues including zinc alloy residues in dispersible form
16.	Spent cleared metal catalyst containing zinc
17.	Used Lead acid battery including grid plates and other lead scrap/ashes/residues not covered under Batteries (Management and Handling) Rules, 2001. [Battery scrap, namely: Lead battery plates covered by ISRI, Code word "Rails". Battery lugs covered by ISRI, Code word "Rakes". Scrap drained/dry while intact, lead batteries covered by ISRI, Code word "rains".

(1)	(2)
18.	Components of waste electrical and electronic assemblies comprising accumulators and other batteries included in Part A of Schedule III, mercury-switches, activated glass cullets from cathode-ray tubes and other activated glass and PCB-capacitors, or any other component contaminated with Schedule II constituents (e.g. cadmium, mercury, lead, polychlorinated biphenyl) to an extent that they exhibit hazard characteristics indicated in part C of Schedule III.
19.	Paint and ink Sludge/residues
20.	Used oil and waste oil

SCHEDULE V
[See rules 3 (36) and 3 (39)]

PART A
Specifications of Used Oil Suitable for recycling

S.No.	Parameter	Maximum permissible Limits
(1)	(2)	(3)
1.	Polychlorinated biphenyls (PCBs)	< 2ppm *
2.	Lead	100 ppm
3.	Arsenic	5 ppm
4.	Cadmium+Chromium+Nickel	500 ppm
5.	Polyaromatic hydrocarbons (PAH)	6%

Part B
Specification of fuel derived from waste oil

S.No.	Parameter	Maximum permissible limits
(1)	(2)	(3)
1.	Sediment	0.25%
2.	Lead	100 ppm
3.	Arsenic	5 ppm
4.	Cadmium+Chromium+Nickel	500 ppm
5.	Polyaromatic hydrocarbons (PAH)	6%
6.	Total halogens	4000 ppm
7.	Polychlorinated biphenyls (PCBs)	<2 ppm *
8.	Sulfur	4.5%
9.	Water Content	1%

*The detection limit is 2 ppm by gas Liquid Chromatography (GLC) using Electron Capture detector (ECD)

SCHEDULE VI
 [See rules 12 (6), 12 (7) and 14(1)]

Hazardous and Other wastes prohibited for import

Basel No	Description of hazardous and other wastes
(1)	(2)
A1	Metal and Metal bearing wastes
A1010	Metal wastes and waste consisting of alloys of any of the following but excluding such wastes specifically listed in Part B and Part D of Schedule III - Arsenic - Beryllium - Mercury - Selenium - Thallium
A1020	Wastes having as constituents or contaminants, excluding metal wastes in massive form, any of the following: - Beryllium; beryllium compounds - Selenium; selenium compounds
A1030	Wastes having as constituents or contaminants any of the following: - Arsenic; arsenic compounds - Mercury; mercury compounds - Thallium; thallium compounds
A1040	Waste having hexavalent chromium compounds as constituents
A1140	Waste cupric chloride and copper cyanide catalysts in liquid form (note the related entry in Part A of Schedule III)
A1060	Wastes liquors from the pickling of metals
A1110	Spent electrolytic solutions from copper electrorefining and electrowinning operations
A1130	Spent etching solutions containing dissolved copper
A1180	Waste electrical and electronic assemblies or scrap (does not include scrap assemblies from electric power generation) containing components such as accumulators and other batteries included in Part A of Schedule III, mercury-switches, glass from cathode-ray tubes and other activated glass and PCB-capacitors, or contaminated with Schedule II constituents (e.g. cadmium, mercury, lead, polychlorinated biphenyl) to an extent that they exhibit hazard characteristics indicated in Part C of Schedule III (note the related entry in Part B B1110)
A1190	Waste metal cables coated or insulated with plastics containing or contaminated with coal tar, PCB, lead, cadmium, other organohalogen compounds or other constituents as mentioned in Schedule II to the extent that they exhibit hazard characteristics indicated in Part C of Schedule III
A2	Wastes containing principally inorganic constituents, which may contain metals and organic materials
A2020	Waste inorganic fluorine compounds in the form of liquids or sludges but excluding such wastes specified in Part B

Fi)	(2)
A2040	Waste gypsum arising from chemical industry processes, if it contains any of the constituents mentioned in Schedule 2 to the extent that they exhibit hazard characteristics indicated in Part C of Schedule III (note the related entry in Part B B2080)
A2050	Waste asbestos (dusts and fibres)
A2060	Coal-fired power plant fly-ash containing Schedule II constituents in concentrations sufficient to exhibit Part C characteristics
A3	Wastes containing principally organic constituents, which may contain metals and inorganic materials
A3030	Wastes that contain, consist of or are contaminated with leaded anti-knock compounds sludges.
A3040	Waste thermal (heat transfer) fluids
A3060	Waste nitrocellulose
A3070	Waste phenols, phenol compounds including chlorophenol in the form of liquids or sludges
A3080	Waste ethers not including those specified in Part B
A3090	Waste leather dust, ash, sludges and flours when containing hexavalent chromium compounds or biocides (note the related entry in Part B B3100)
A3100	Waste paring and other waste of leather or of composition leather not suitable for the manufacture of leather articles, containing hexavalent chromium compound and biocides (note the related entry in Part B B3090)
A3110	Fellmongery wastes containing hexavalent chromium compounds or biocides or infectious substances (note the related entry in Part B B3110)
A3140	Waste non-halogenated organic solvents but excluding such wastes specified in Part B
A3150	Waste halogenated organic solvents
A3160	Waste halogenated or unhalogenated non-aqueous distillation residues arising from organic solvent recovery operations
A3170	Waste arising from the production of aliphatic halogenated hydrocarbons (such as chloromethane, dichloro-ethane, vinyl chloride, vinylidene chloride, allyl chloride and epichlorhydrin)
A3180	Wastes, substances and articles containing, consisting of or contaminated with polychlorinated biphenyl (PCB), polychlorinated terphenyl (PCT), polychlorinated naphthalene (PCN) or polybrominated biphenyl (PBB) or any other polybrominated analogues of these compounds
A3190	Waste tarry residues (excluding asphalt cements) arising from refining, distillation and any pyrolytic treatment of organic materials
A3200	Bituminous material (asphalt waste) from road construction and maintenance, containing tar (note the related entry in Part B, B2130)
A4	Wastes which may contain either inorganic or organic constituents
A4020	Clinical and related wastes; that is wastes arising from medical, nursing, dental, veterinary, or similar practices, and wastes generated in hospitals or other facilities during the investigation or treatment of patients, or research projects.
A4030	Waste from the production, formulation and use of biocide and phyto-pharmaceuticals, including waste pesticides and herbicides which are off-specification, out-dated (unused within the period recommended by the manufacturer), or unfit for their originally intended use.

*(1)	(2)
A4050	Wastes that contain, consist of, or are contaminated with any of the following: <ul style="list-style-type: none"> - Inorganic cyanides, excepting precious-metal-bearing residues in solid form containing traces of inorganic cyanides. - Organic cyanides
A4060	Waste oils/water, hydrocarbons/water mixtures, emulsions
A4080	Wastes of an explosive nature (but excluding such wastes specified in Part B)
A4090	Waste acidic or basic solutions, other than those specified at B2120 of this Schedule
A4110	Wastes that contain, consist of or are contaminated with any of the following. <ul style="list-style-type: none"> - Any congener of polychlorinated dibenzo-furan. - Any congener of polychlorinated dibenzo-P-dioxin.
A4150	Waste chemical substances arising from research and development or teaching activities which are not identified and /or are new and whose effects on human health and /or the environment are not known
B1	Metal and Metal bearing wastes
B 1110	Used critical care medical equipment for re-use
B1115	Waste metal cables coated or insulated with plastics, not included in A1190 of this schedule, excluding those destined for operations which do not lead to resource recovery, recycling, reclamation, direct re-use or alternative uses or any other disposal operations involving, at any stage, uncontrolled thermal processes, such as open-burning.
B1250	Waste end-of-life motor vehicles, containing neither liquids nor other hazardous components
B2	Wastes containing principally inorganic constituents, which may contain metals and organic materials
B2050	Coal-fired power plant fly-ash, note the related entry at A2060 of this Schedule
B2110	Bauxite residue (red mud) (pH moderated to less than 11.5)
B2120	Waste acidic or basic solutions with a pH greater than 2 and less than 11.5, which are not corrosive or otherwise hazardous (note the related entry at A4090 of this schedule)
B3	Wastes containing principally organic constituents, which may contain metals and inorganic materials
B3010	Solid plastic waste The following plastic or mixed plastic waste, prepared to a specification. <ul style="list-style-type: none"> - Scrap plastic of non-halogenated polymers and co-polymers, including but not limited to the following: Ethylene, Styrene, Polypropylene, polyethylene terephthalate, Acrylonitrile, Butadiene, Polyacetals, Polyamides, polybutylene terephthalate, Polycarbonates, Polyethers, polyphenylene sulphides, acrylic polymers, alkanes C10-C13 (plasticiser), polyurethane (not containing CFC's), Polysiloxanes, polymethyl methacrylate, polyvinyl alcohol, polyvinyl butyral, Polyvinyl acetate - Cured waste resins or condensation products including the following: urea formaldehyde resins, phenol formaldehyde resins, melamine formaldehyde resins, epoxy resins, alkyd resins, polyamides - The following fluorinated polymer wastes (excluding post-consumer wastes):

	(2)
	perfluoroethylene/ propylene, perfluoro alkoxy alkane, tetrafluoroethylene/per fluoro vinyl ether (PFA), tetrafluoroethylene/per fluoro methylvinyl ether (MFA), polyvinylfluoride, polyvinylidene fluoride
B3026	The following waste from the pre-treatment of composite packaging for liquids, not containing constituents mentioned in Schedule II in concentrations sufficient to exhibit Part C characteristics: <ul style="list-style-type: none"> - Non-separable plastic fraction - Non-separable plastic-aluminium fraction
B3065	Waste edible fats and oils of animal or vegetable origin (e.g. frying oil)
B3140	Waste pneumatic tyres for direct reuse
Y 46	Wastes collected from household/municipal waste
Y 47	Residues arising from the incineration of household wastes

SCHEDULE VII
[See rules 13 (6) and 21]

List of authorities and corresponding duties

S. No.	Authority	Corresponding Duties
(1)	(2)	(3)
1.	Ministry of Environment, Forests and Climate Change under the Environment (Protection) Act, 1986	<ul style="list-style-type: none"> (i) Identification of hazardous and other wastes (ii) Permission to exporters of hazardous and other wastes (iii) Permission to importer of hazardous and other wastes (iv) Permission for transit of hazardous and other wastes through India (v) Promote environmentally sound management of hazardous and other waste. (vi) Sponsoring of training and awareness programme on Hazardous and Other Waste Management related activities.
2.	Central Pollution Control Board constituted under the Water (Prevention and Control of Pollution) Act, 1974	<ul style="list-style-type: none"> (i) Co-ordination of activities of State Pollution Control Boards (ii) Conduct training courses for authorities dealing with management of hazardous and other wastes (iii) Recommend standards and specifications for treatment and disposal of wastes and leachates, recommend procedures for characterisation of hazardous wastes.

Sl. No.	(2)	(3)
		<ul style="list-style-type: none"> (iv) Inspection of facilities handling hazardous waste as and when necessary. (v) Sector specific documentation to identify waste for inclusion in these rules. (vi) Prepare and update guidelines to prevent or minimise the generation and handling of hazardous and other wastes. (vii) Prepare and update guidelines/ Standard Operating Procedures (SoPs) for recycling, utilization, pre-processing, co-processing of hazardous and other wastes. (viii) To prepare annual review report on management of hazardous waste. (ix) Any other function assigned by the Ministry of Environment, Forest and Climate Change, from time to time.
3.	State Government/Union Territory Government/Administration	<ul style="list-style-type: none"> (i) Identification of site (s) for common Hazardous and Other Waste Treatment Storage and Disposal Facility (TSDF) (ii) Assess Environment Impact Assessment (EIA) reports and convey the decision of approval of site or otherwise Acquire the site or inform operator of facility or occupier or association of occupiers to acquire the site (iii) Notification of sites. (iv) Publish periodically an inventory of all potential or existing disposal sites in the State or Union Territory
4.	State Pollution Control Boards or Pollution Control Committees constituted under the Water (Prevention and Control of Pollution) Act, 1974	<ul style="list-style-type: none"> (i) Inventorisation of hazardous and other wastes (ii) Grant and renewal of authorisation (iii) Monitoring of compliance of various provisions and conditions of permission including conditions of permission for issued by Ministry of Environment, Forest and Climate Change for exports and imports (iv) Examining the applications for imports submitted by the importers and forwarding the same to Ministry of Environment, Forest and Climate Change (v) Implementation of programmes to prevent or reduce or minimise the generation of hazardous and other wastes. (vi) Action against violations of these rules. (vii) Any other function under these Rules assigned by Ministry of Environment, Forest and Climate Change from time to time.
5.	Directorate General of Foreign	<ul style="list-style-type: none"> (i) Grant of licence for import of hazardous

(1)	(2)	(3)
	Trade constituted under the Foreign Trade (Development and Regulation) Act, 1992	and other wastes (ii) Refusal of licence for hazardous and other wastes prohibited for imports and export
6.	Port authority under Indian Ports Act, 1908 (15 of 1908) and Customs Authority under the Customs Act, 1962 (52 of 1962)	(i) Verify the documents (ii) Inform the Ministry of Environment, Forests and Climate Change of any illegal traffic (iii) Analyse wastes permitted for imports and exports, wherever required. (iv) Train officials on the provisions of these rules and in the analysis of hazardous and other wastes (v) Take action against exporter or importer for violations under the Indian Ports Act, 1908 or Customs Act, 1962

SCHEDULE VIII
[See rules 13(2) and 13 (4)]

List of documents for verification by Customs for import of other wastes specified in Part D of Schedule III

S. No.	Basel No.	Description of other wastes	List of Documents
(1)	(2)	(3)	(4)
1	B1010	Metal and metal-alloy wastes in metallic, non-dispersible form: - Precious metals (gold, silver, platinum) - Iron and steel scrap - Nickel scrap - Aluminium scrap - Zinc scrap - Tin scrap - Tungsten scrap - Molybdenum scrap - Tantalum scrap - Cobalt scrap - Bismuth scrap - Titanium scrap - Zirconium scrap - Manganese scrap - Germanium scrap - Vanadium scrap - Hafnium scrap - Indium scrap - Niobium scrap - Rhenium scrap - Gallium scrap - Magnesium scrap - Copper scrap - Chromium scrap	(a) Duly filled up Form 6 - Movement document; (b) The import license from Directorate General of Foreign Trade, wherever applicable; (c) Pre-shipment inspection certificate issued by the inspection agency of the exporting country or the inspection and certification agency approved by Directorate General of Foreign Trade; (d) The valid consents to operate under the Air and Water Acts and the authorisation under these rules, for actual users. For traders, only valid one time authorisation from concerned SPCB is required; (e) The chemical analysis report of the waste being imported; (f) an acknowledged copy of the annual return filed with concerned State Pollution Control Board for import in the last financial year.

(1)	(2)	(3)	(4)
2	B1050	Mixed non-ferrous metal, heavy fraction scrap, containing metals other than specified in Part B1050 and not containing constituents mentioned in Schedule II in concentrations sufficient to exhibit Part C characteristics* .	(a) Duly filled up Form 6 - Movement document; (b) The import license from Directorate General of Foreign Trade, wherever applicable; (b) Pre-shipment inspection certificate issued by the inspection agency of the exporting country or the inspection and certification agency approved by Directorate General of Foreign Trade; (c) The valid consents to operate under the Air and Water Acts and the authorisation under these rules, for actual users. For traders, only valid authorisation from concerned SPCB is required; (d) The chemical analysis report of the waste being imported; (e) An acknowledged copy of the annual return filed with concerned SPCB for import in the last financial year.
3	B1100	Metal bearing wastes arising from melting, smelting and refining of metals: - Hard Zinc spelter - Zinc-containing drosses: - Galvanizing slab zinc top dross (>90% Zn) - Galvanizing slab zinc bottom dross (>92% Zn) - Zinc die casting dross (>85% Zn) - Hot dip galvanizers slab zinc dross (batch) (>92% Zn) - Zinc skimmings - Aluminium skimmings (or skims) excluding salt slag	(c) Duly filled up Form 6 - Movement document; (d) The import license from Directorate General of Foreign Trade, wherever applicable; (e) Pre-shipment inspection certificate issued by the inspection agency of the exporting country or the inspection and certification agency approved by Directorate General of Foreign Trade; (f) The valid consents to operate under the Air and Water Acts and the authorisation under these rules, for actual users. For traders, only valid authorisation from concerned SPCB is required; (g) The chemical analysis report of the waste being imported; (h) An acknowledged copy of the annual return filed with concerned SPCB for import in the last financial year.
4	B1110	Electrical and electronic assemblies (including printed circuit boards, electronic components and wires) recycling or final disposal	
(a)		Used electrical and electronic assemblies imported for repair and	(a) Duly filled up Form 6 - Movement document;

(1)	(2)	(3)	(4)
		to be re-exported after repair within one year of import	(b) Undertaking for re-export; (c) Details of previous import, if there has been any and confirmation regarding their re-export; (d) An acknowledged copy of the annual return filed with concerned SPCB for import in the last financial year (e) Certificate from exporting company for accepting the repaired and unrepairable electrical and electronic assemblies and the spares or part or component or consumables being re-exported.
(b)		Used electrical and electronic assemblies imported for rental purpose and re-exported back within one year of import	(a) Duly filled up Form 6 - Movement document; (b) Undertaking for re-export; (c) Details of previous import, if there has been any and confirmation regarding their re-export; (d) An acknowledged copy of the annual return filed with concerned SPCB for import in the last financial year
(c)		Used electrical and electronic assemblies exported for repair and to be re-imported after repair	(a) Duly filled up Form 6 - Movement document; (b) Proof of export of the defective electrical and electronic assemblies i.e. shipping or airway document authenticated by Customs
(d)		Used electrical and electronic assemblies imported for testing, research and development, project work purposes and to be re-exported back within a period of three years from the date of import	(a) Duly filled up Form 6 - Movement document; (b) Undertaking for re-export; (c) Details of previous import, if there has been any and confirmation regarding their re-export; (d) Chartered Engineer Certificate or certificate from accredited agency of exporting country indicating the functionality, manufacturing date, residual life and serial number. (e) an acknowledged copy of the annual return filed with concerned SPCB for import in the last financial year; (f) Certificate from exporting company for accepting the second hand functional or non-functional electrical and electronic assemblies and/or the spares or part or component or consumables being

(1)	(2)	(3)	(4)
(e)		Spares imported for warranty replacements provided equal number of defective / non-functional parts are exported back within one year of the import.	re-exported at the end of three years. (a) Duly filled up Form 6 - Movement document; (b) if refurbished components being imported as replacement to defective component then undertaking for export of equivalent numbers of defective components; (c) Details of previous import, if there has been any and confirmation regarding their re-export; (d) Certificate from exporting company for accepting the re-export of defective or non-functional spares or part or component or consumables being re-exported. (e) Documents on the declared policy regarding the use of second hand or refurbished spare parts for repair of electrical and electronic assemblies during warranty period.
(f)		Used electrical and electronic assemblies imported by Ministry of Defence, Department of Space and Department of Atomic Energy.	---
(g)		Used electrical and electronic assemblies (not in bulk; quantify less than or equal to three) imported by the individuals for their personal uses.	---
(h)		Used Laptop, Personal Computers, Mobile, Tablet up to 03 number each imported by organisations in a year.	---
(i)		Used electrical and electronic assemblies owned by individuals and imported on transfer of residence.	As per existing guidelines of Custom Authority
(j)		Used electrical and electronic assemblies, spares, imported by airlines for aircraft maintenance and remaining either on board or under the custodianship of the respective airlines warehouses located on the airside of the custom bonded areas.	---

(1)	(2)	(3)	(4)
(i)		Used multifunction print and copying machines (MFDs)*	<p>(a) The country of Origin Certificate along with bill of lading and packaging;</p> <p>(b) The certificate issued by the inspection agency as certified by the exporting country or the inspection and certification agency approved by Directorate General Foreign Trade (DGFT) for functionality, having residual life of not less than five years and serial number;</p> <p>(c) Extended Producer Responsibility-Authorisation under e-waste (Management and Handling) Rules, 2011 as amended from time to time as Producer;</p> <p>(d) The MFDs shall be for printing A 3 size and above;</p> <p>(e) An acknowledged copy of the annual return filed with concerned SPCB for import in the last financial year.</p>
5	B3020	<p>Paper, paperboard and paper product wastes</p> <p>The following materials, provided they are not mixed with hazardous wastes:</p> <p>Waste and scrap of paper or paperboard of:</p> <ul style="list-style-type: none"> - unbleached paper or paperboard or corrugated paper or paperboard - other paper or paperboard, made mainly of bleached chemical pulp, not coloured in the mass - paper or paperboard made mainly of mechanical pulp (for example newspapers, journals and similar printed matter) - other, including but not limited to <ul style="list-style-type: none"> (1) laminated paperboard (2) unsorted scrap 	<p>(a) Duly filled up Form 6 - Movement document;</p> <p>(b) The import license from Directorate General of Foreign Trade, wherever applicable;</p> <p>(i) Pre-shipment inspection certificate issued by the inspection agency of the exporting country or the inspection and certification agency approved by Directorate General of Foreign Trade;</p> <p>(c) The valid consents to operate under the Air and Water Acts and the authorisation under these rules, for actual users. For traders, only valid authorisation from concerned SPCB is required;</p> <p>(d) The chemical analysis report of the waste being imported;</p> <p>(e) an acknowledged copy of the annual return filed with concerned State Pollution Control Board for import in the last financial year.</p>
6.	B3140	Aircraft Tyres exported to Original Equipment Manufacturers for re-treading and re-imported after re-treading by airlines for aircraft	As per existing guidelines of Custom Authority

(1)	(2)	(3)	(4)
		maintenance and remaining either on board or under the custodianship of the respective airlines warehouses located on the airside of the custom bonded areas	

Note: * The policy for free trade for multifunction print and copying machine to be reviewed once the MFDs are domestically manufactured.

FORM 1
[See rule 6 (1)]

Application required for grant/renewal of authorisation for generation or collection or storage or transport or reception or recycling or reuse or recovery or pre-processing or co-processing or utilisation or treatment or disposal of hazardous and other waste

Part A: General (to be filled by all)

1. (a) Name and address of the unit and location of facility :
(b) Name of the occupier of the facility or operator of disposal facility with designation, Tel, Fax and e-mail:
(c) Authorisation required for (Please tick mark appropriate activity or activities):

(i) Generation	<input type="checkbox"/>
(ii) Collection	<input type="checkbox"/>
(iii) Storage	<input type="checkbox"/>
(iv) Transportation	<input type="checkbox"/>
(v) Reception	<input type="checkbox"/>
(vi) Reuse	<input type="checkbox"/>
(vii) Recycling	<input type="checkbox"/>
(viii) Recovery	<input type="checkbox"/>
(ix) Pre-processing	<input type="checkbox"/>
(x) Co-processing	<input type="checkbox"/>
(xi) Utilisation	<input type="checkbox"/>
(xii) Treatment	<input type="checkbox"/>
(xiii) Disposal	<input type="checkbox"/>
(xiv) Incineration	<input type="checkbox"/>
- (d) In case of renewal of authorisation previous authorisation numbers and dates and provide copies of annual returns of last three years including the compliance reports with respect to the conditions of Prior Environmental Clearance, wherever applicable;
2. (a) Nature and quantity of waste handled per annum (in metric tonne or kilo litre)
(b) Nature and quantity of waste stored at any time (in metric tonne or kilo litre)
3. (a) Year of commissioning and commencement of production:
(b) Whether the industry works:

(i) 01 Shift	<input type="checkbox"/>
(ii) 02 Shifts	<input type="checkbox"/>
(iii) Round the clock	<input type="checkbox"/>
4. Provide copy of the Emergency Response Plan (ERP) which should address procedures for dealing with emergency situations (viz. Spillage or release or fire) as specified in the guidelines of Central Pollution Control Board. Such ERP shall comprise the following, but not limited to:
 - Containing and controlling incidents so as to minimise the effects and to limit danger to the persons, environment and property;
 - Implementing the measures necessary to protect persons and the environment;
 - Description of the actions which should be taken to control the conditions at events and to limit their consequences, including a description of the safety equipment and resources available;
 - Arrangements for training staff in the duties which they are expected to perform;

- Arrangements for informing concerned authorities and emergency services; and
- Arrangements for providing assistance with off-site mitigatory action.

5. Provide undertaking or declaration to comply with all provisions including the scope of submitting bank guarantee in the event of spillage, leakage or fire while handling the hazardous and other waste.

Part B: To be filled by hazardous waste generators

1. (a) Products and by-products manufactured (names and product wise quantity per annum);
 (b) Process description including process flow sheet indicating inputs and outputs (raw materials, chemicals, products, by-products, wastes, emissions, waste water etc.) Please attach separate sheets;
 (c) Characteristics (waste-wise) and Quantity of waste generation per annum;
 (d) Mode of management of (c) above:
 - i. Capacity and mode of secured storage within the plant;
 - ii. Utilisation within the plant (provide details);
 - iii. If not utilised within the plant, please provide details of what is done with this waste;
 - iv. Arrangement for transportation to actual users/ TSDF;
- (e) Details of the environmental safeguards and environmental facilities provided for safe handling of all the wastes at point (c) above;
2. Hazardous and other wastes generated as per these rules from storage of hazardous chemicals as defined under the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989

Part C: To be filled by Treatment, storage and disposal facility operators

1. Provide details of the facility including:
 - (i) Location of site with layout map;
 - (ii) Safe storage of the waste and storage capacity;
 - (iii) The treatment processes and their capacities;
 - (iv) Secured landfills;
 - (v) Incineration, if any;
 - (vi) Leachate collection and treatment system;
 - (vii) Fire fighting systems;
 - (viii) Environmental management plan including monitoring; and
 - (ix) Arrangement for transportation of waste from generators.
2. Provide details of any other activities undertaken at the Treatment, storage and disposal facility site.
3. Attach a copy of prior Environmental Clearance.

Part D: To be filled by recyclers or pre-processors or co-processors or users of hazardous or other wastes

1. Nature and quantity of different wastes received per annum from domestic sources or imported or both:
2. Installed capacity as per registration issued by the District Industries Centre or any other authorised Government agency. Provide copy:
3. Provide details of secured storage of wastes including the storage capacity:
4. Process description including process flow sheet indicating equipment details, inputs and outputs (input wastes, chemicals, products, by-products, waste generated, emissions, waste water, etc.). Attach separate sheets:
5. Provide details of end users of products or by-products:
6. Provide details of pollution control systems such as Effluent Treatment Plant, scrubbers, etc. including mode of disposal of waste:
7. Provide details of occupational health and safety measures:
8. Has the facility been set up as per Central Pollution Control Board guidelines? If yes, provide a report on the compliance with the guidelines.
9. Arrangements for transportation of waste to the facility:

Date.....

Place.....

Signature of the Applicant
Designation

FORM FOR GRANT OR RENEWAL OF AUTHORISATION BY STATE POLLUTION CONTROL BOARD TO THE OCCUPIERS, RECYCLERS, REPROCESSORS, REUSERS, USER AND OPERATORS OF DISPOSAL FACILITIES

1. Number of authorisation and date of issue
2. Reference of application (No. and date)
3. of is hereby granted an authorisation based on the enclosed signed inspection report for generation, collection, reception, storage, transport, reuse, recycling, recovery, pre-processing, utilisation, treatment, disposal or any other use of hazardous or other wastes or both on the premises situated at.....

Details of Authorisation

Sl. No.	Category of Hazardous Waste as per the Schedules I, II and III of these rules	Authorised mode of disposal or utilisation or recycling or co-processing, etc.	Quantity (ton/annum)

- (1) The authorisation shall be valid for a period of
- (2) The authorisation is subject to the following general and specific conditions (Please specify any conditions that need to be imposed over and above general conditions, if any):

A. General conditions of authorisation:

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
3. The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
4. Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty"
7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.
8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.

9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
 10. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation.
 11. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
 12. An application for the renewal of an authorisation shall be made as laid down under these Rules.
 13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
 14. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.
- B. Specific conditions:

Date:

Signature of Issuing Authority
Designation and Seal

FORMAT FOR MAINTAINING RECORDS OF HAZARDOUS AND OTHER WASTES

1. Name and address of the facility
2. Date of issuance of authorisation and its reference number
3. Description of hazardous and other wastes handled (Generated or Received)

Date	Type of waste with category as per Schedules I, II and III of these rules	Total quantity (Metric Tonnes)	Method of Storage	of	Destined to or received from

* Fill up above table separately for indigenous and imported waste.

4. Date wise description of management of hazardous and other wastes including products sent and to whom in case of recyclers or pre-processor or utiliser:
5. Date of environmental monitoring (as per authorisation or guidelines of Central Pollution Control Board):

Date.....

Place.....

Signature of occupier

FORM 4

[See rules 6(5), 13(8), 16(6) and 20 (2)]

FORM FOR FILING ANNUAL RETURNS

[To be submitted to State Pollution Control Board by 30th day of June of every year for the preceding period April to March]

1. Name and address of facility:
2. Authorisation No. and Date of issue:
3. Name of the authorised person and full address with telephone, fax number and e-mail:
4. Production during the year (product wise), wherever applicable

Part A. To be filled by hazardous waste generators

1. Total quantity of waste generated category wise
2. Quantity dispatched
 - (i) to disposal facility
 - (ii) to recycler or co-processors or pre-processor
 - (iii) others

3. Quantity utilised in-house, if any -
4. Quantity in storage at the end of the year -

Part B. To be filled by Treatment, storage and disposal facility operators

1. Total quantity received -
2. Quantity in stock at the beginning of the year -
3. Quantity treated -
4. Quantity disposed in landfills as such and after treatment -
5. Quantity incinerated (if applicable) -
6. Quantity processed other than specified above -
7. Quantity in storage at the end of the year -

Part C. To be filled by recyclers or co-processors or other users

1. Quantity of waste received during the year -
 - (i) domestic sources
 - (ii) imported (if applicable)
2. Quantity in stock at the beginning of the year -

3. Quantity recycled or co-processed or used -
4. Quantity of products dispatched (wherever applicable) -
5. Quantity of waste generated -
6. Quantity of waste disposed -
7. Quantity re-exported (wherever applicable)-
8. Quantity in storage at the end of the year -

Date.....

Place.....

**Signature of the Occupier or
Operator of the disposal facility**

[See rules 13 (1) and 14 (1)]

APPLICATION FOR IMPORT OR EXPORT OF HAZARDOUS AND OTHER WASTE
FOR REUSE OR RECYCLING OR RECOVERY OR CO-PROCESSING OR UTILISATION

TO BE FILLED IN BY APPLICANT

S. No.	Description	Details to be furnished by the importer or exporter
(1)	(2)	(3)
1.	Importer or Exporter (name and address) in India	
	Contact person	
	Tel, fax and e-mail	
	Facility location/address	
	Reason for import or export	
2.	Importer or exporter (name and address) outside of India	
3.	Details of waste to be imported or exported	
	(a) Quantity	
	(b) Basel No.	
	(c) Single/multiple movement	
	(d) Chemical composition of waste (attach details), where applicable	
	(e) Physical characteristics	
	(f) Special handling requirements, if applicable	
4.	For Schedule III A hazardous waste whether Prior Informed Consent has been obtained	
5.	For importer	
	(a) Process details along with environmental safeguard measures (attach separate sheet)	
	(b) Capacity of recycling or co-processing or recovery or utilization	
	Enclose a copy each of valid authorisation and valid consent to operate from SPCB	
6.	Details of import against the Ministry of Environment, Forest and Climate Change permission in the previous three years	
7.	Port of entry	

9. Undertaking

I hereby solemnly undertake that:

- (i) The information is complete and correct to the best of my knowledge and legally-enforceable written contractual obligations have been entered into and that my applicable insurance or other financial guarantees are or shall be in force covering the transboundary movement.
- (ii) The waste permitted shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.

- (iii) The record of consumption and fate of the imported waste shall be recorded and report sent to the SPCB every quarter.
- (iv) The hazardous or other waste which gets generated in our premises by the use of imported hazardous or other wastes in the form of raw material shall be treated and disposed of as per conditions of authorisation.
- (v) I agree to bear the cost of export and mitigation of damages if any.
- (vi) I am aware that there are significant penalties for submitting a false certificate/ undertaking/ disobedience of the rules and lawful orders including the possibility of fine and imprisonment.
- (vii) The exported wastes shall be taken back, if it is not acceptable to the importer.

Date.....

Place.....

**Signature of the Applicant
Designation**

[See rules 13(2), 13 (10) and 14 (5)]

TRANSBOUNDARY MOVEMENT- MOVEMENT DOCUMENT

S.No	Description	Details to be furnished by the exporter or importer
(1)	(2)	(3)
1	Exporter (Name and Address) Contact Person Tele, Fax and email	
2	Generator(s) of the waste (Name and Address) ¹ Contact Person Tele, Fax and email Site of generation	
3	Importer or Actual user (Name and Address) Contact person Tele, Fax and email	
4	Trader (Name and Address) Contact person Tele, Fax and email Details of actual user (Name, Address, Telephone and email)	
5	Corresponding to applicant Ref. No., If any	
6	Bill of lading (attach copy)	
7	Country of import/export	
8	General description of waste (a) Quantity (b) Physical characteristics (c) Chemical composition of waste (attach details), where applicable (d) Basel No. (e) UN Shipping name (f) UN Class (g) UN No (h) H Number (i) Y Number (j) ITC (HS) (k) Customs Code (H.S.) (l) Other (specify)	
9	Type of packages Number	
10	Special handling requirements including emergency provision in case of accidents	
11	Movement subject to single/multiple consignment In case of multiple movement-	
	(a) Expected dates of each shipment or expected frequency of the shipments	
	(b) Estimated total quantity and quantities for each individual shipment	

(1)	(2)	(3)
12.	Transporter of waste (Name and Address) ¹ Contact Person Tele, Fax and email Registration number Means of transport (road, rail, inland waterway, sea, air) ² Date of Transfer Signature of Carrier's representative	
13.	Exporter's declaration for hazardous and other waste: I certify that the information in Sl. Nos. 1 to 12 above are complete and correct to my best knowledge. I also certify that legally-enforceable written contractual obligations have been entered into and are in force covering the transboundary movement regulations/rules. Date:..... Signature:..... Name:.....	
TO BE COMPLETED BY IMPORTER (ACTUAL USER OR TRADER)		
14.	Shipment received by importer/ actual user/trader ^{2,3} Quantity received.....Kg/litres Date: Name: Signature:	
15.	Methods of recovery R code*	
16.	Technology employed (Attached details if necessary) I certify that nothing other than declared goods covered as per these rules is intended to be imported in the above referred consignment and will be recycled /utilized. Signature: Date:	
17.	SPECIFIC CONDITIONS ON CONSENTING TO THE MOVEMENT if applicable.	(attach details)
Notes:-(1) Attach list, if more than one; (2) Select appropriate option; (3) Immediately contact competent authority in case of any emergency; (4) If more than one transporter carriers, attach information as required in SL. No. 12.		

List of abbreviations used in the Movement Document

Recovery Operations (*)

- R1 Use as a fuel (other than in direct incineration) or other means to generate energy
- R2 Solvent reclamation/regeneration.
- R3 Recycling/reclamation of organic substances which are not used as solvents.
- R4 Recycling/reclamation of metals and metal compounds.
- R5 Recycling/reclamation of other inorganic materials.
- R6 Regeneration of acids or bases.
- R7 Recovery of components used for pollution abatement.
- R8 Recovery of components from catalysts.
- R9 Used oil re-refining or other reuses of previously used oil
- R10 Land treatment resulting in benefit to agriculture or ecological improvement
- R11 Uses of residual materials obtained from any of the operations numbered R 1 to R 10

Place:

17/65/204

Designation:

FORM 7
[See rule 13 (2) (c)]APPLICATION FORM FOR ONE TIME AUTHORISATION OF TRADERS FOR PART-D OF
SCHEDULE III, WASTE
[To be submitted by trader to the State Pollution Control Board]

1.	Name and address of trader with Telephone, Fax Number and e-mail	:	
2.	TIN/VAT Number/Import/ Export Code	:	
3.	Description and quantity of other waste to be imported	:	
4.	Details of storage, if any	:	
5.	Names and address of authorised actual user (s)	:	

Date:

Signature of the authorised person

Place:

FORM 8
[See rules 17 (1) and 18 (2)]

LABELLING OF CONTAINERS OF HAZARDOUS AND OTHER WASTE

Handle with care

Waste category and characteristics as per Part C of Schedules II and III of these rules	Incompatible wastes and substances
Total quantity	Date of storage
Physical State of the waste (Solid/Semi-solid/Liquid):	
Sender's name and address	Receiver's name and address
Phone.....	Phone.....
E-mail.....	E-mail.....
Tel. and Fax No.....	Tel. and Fax No.....
Contact person.....	Contact person.....
In case of emergency please Contact	

Note:

1. Background colour of label - fluorescent yellow.
2. The word, 'HAZARDOUS WASTES' and 'HANDLE WITH CARE' to be prominent and written in red, in Hindi, English and in vernacular language.
3. The word 'OTHER WASTES' to be written prominently in orange, in Hindi, English, and in vernacular language.
4. Label should be of non-washable material and weather proof.

TRANSPORT EMERGENCY (TREM) CARD

[To be carried by the transporter during transportation of hazardous and other wastes, provided by the sender of waste]

1. Characteristics of hazardous and other wastes:

S. No.	Type of waste	Physical properties/	Chemical constituents	Exposure hazards	First Aid requirements

- 2. Procedure to be followed in case of fire
- 3. Procedure to be followed in case of spillage/accident/explosion
- 4. For expert services, please contact
 - (i) Name and Address
 - (ii) Telephone No.

(Name, contact number and signature of sender)

Date.....

Place.....

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1.	Sender's name and mailing address (including Phone No. and e-mail)	
2.	Sender's authorisation No.	
3.	Manifest Document No.	
4.	Transporter's name and address (including Phone No. and e-mail)	
5.	Type of vehicle	
6.	Transporter's registration No.	(Truck/Tanker/Special Vehicle)
7.	Vehicle registration No.	
8.	Receiver's name and mailing address (including Phone No. and e-mail)	
9.	Receiver's authorisation No.	
10.	Waste description	
11.	Total quantity No. of Containersm ³ or MTNos.
12.	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13.	Special handling instructions and additional information	
14.	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations
Name and stamp: Signature:		Month Day Year
15.	Transporter acknowledgement of receipt of Wastes	
Name and stamp: Signature:		Month Day Year
16.	Receiver's certification for receipt of hazardous and other waste	
Name and stamp: Signature:		Month Day Year

FORMAT FOR REPORTING ACCIDENT

[To be submitted by the facility or sender or receiver or transporter to the State Pollution Control Board]

1. The date and time of the accident
2. Sequence of events leading to accident
3. Details of hazardous and other wastes involved in accident
4. The date for assessing the effects of the accident on health or the environment
5. The emergency measures taken
6. The steps taken to alleviate the effects of accidents
7. The steps take to prevent the recurrence of such an accident

Date:

Place:

Signature:

Designation:

APPLICATION FOR FILING APPEAL
AGAINST THE ORDER PASSED BY STATE POLLUTION CONTROL BOARD

1. Name and address of the person making the appeal
2. Number, date of order and address of the authority which passed the order, against which appeal is being made
3. Ground on which the appeal is being made
4. Relief sought for
5. List of enclosures other than the order referred in point 2 against which the appeal is being filed.

(certified copy of
the order be attached)

Signature.....

Name and address.....

Date:

[23-16/2009- HSMD)

(Bishwanath Sinha)
Joint Secretary to Government of India



HARYANA STATE POLLUTION CONTROL BOARD 17/7/211

annexure-III

C-11, SECTOR-6, PANCHKULA
Ph-2577870-73 E-mail: hspcbho@gmail.com

Office Order

Whereas the procedure for processing the applications for grant of registration for recycling/reprocessing of Hazardous Waste specified in Schedule-IV of the Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008 were issued vide order Endst. No. HSPCB/2010/444-68 dated 20.12.2010.

Whereas the Ministry of Environment, Forest & Climate Change, Govt. of India has notified the Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016 on 04.04.2016 in supersession of Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008 user in its has been prescribed that commonly recyclable waste as given in schedule-IV of these Rules, the guidelines already prepared by the Central Pollution Control Board shall be followed and therefore the revised procedure is required to be laid down for processing the applications for authorization of the unit for desirous of recycling of hazardous waste listed in Schedule-IV, according to the provisions of these Rules.

Therefore, it is hereby ordered that the following procedure will be followed for processing the applications for the grant/renewal of authorization of the unit for desirous of recycling of Hazardous Waste listed in Schedule-IV of the Hazardous & Other Wastes (M&TM) Rules, 2016:-

1. The applicant desirous of recycling of Hazardous Waste as listed in Schedule-IV of these Rules, will submit Form 1 prescribed in the Rules along with the documents as given in the checklist at **Annexure-A** in duplicate to the concerned Regional Officer.
2. After the receipt of the complete case, inspection shall be carried out by a team of officers of the Regional Office concerned consisting of the Regional Officer and concerned AEE, Scientist B of the Region to verify whether the applicant is utilizing environmentally sound technologies and possesses adequate technical capabilities, requisite facilities and equipments to recycle the hazardous waste.
3. The Regional Officer will submit the verification report on the prescribed format given at **Annexure-B** alongwith one copy of Form-1 and all original documents submitted by the applicant, within 21 days to the Head Office giving definite recommendations for refusal or grant of authorization as the case may be, on the merits of the case.
4. The authorization shall be issued in the prescribed Form-2 alongwith the prescribed passbook as per the pattern of CPCB to maintain the records of Hazardous Waste processed by the applicant recycling for the same, and copy of field inspection report signed by the concerned officers of the Board indicating the adequacy of facilities for recycling/reprocessing as per Rule 3 or will be refused after following the due procedure as the case may be, based upon the recommendations of Regional Officer with the approval of the Competent Authority.
5. Till the online system for processing the applications for authorization under Hazardous & Other Waste (Management & Transboundary Movement) Rules, 2016 with new prescribed forms, is developed and implemented the IT branch as already asked vide order No. HSPCB/2016/69-87 dated 08.06.2016, the applications for recycling of hazardous waste as listed in the Schedule-IV, shall be submitted in hard copy and will be decided at the level of Branch in Head Office dealing with the subject matter, with the approval of the Chairman as per above said prescribed procedure. As and when the online system for submission and processing the applications for authorization under Hazardous & Other Waste (Management & Transboundary Movement) Rules, 2016 is implemented with the new prescribed forms, then all such applications for authorization under the above said Rules including for recycling of hazardous & other waste shall be processed through OCMMS and decided by concerned Branch Incharge in Head Office with the approval of Chairman or as per the powers delegated by the Board from time to time.
6. The status of all such units authorized by the Board for recycling/reprocessing of Hazardous Waste as per Schedule-IV of these Rules will be displayed on the website of the Board under the heading "Authorized Recyclers of Hazardous Waste of Haryana", immediately after authorization is issued by the Board.
The above orders shall come in to force with immediate effect.

Dated Panchkula, the
16th August, 2016

Endst. No. HSPCB/HW/2016/405-25

S.N. Roy, IAS

Chairman

Dated: 15/8/16

- A copy of the above is forwarded to the following for information and necessary action:
1. All Branch Incharges in Head Office
 2. All Regional officers in the field.
 3. PS to Chairman, PA to Member Secy return the originals to the officers.
 4. Media Officer (IT) for uploading the orders on the website of the Board.

Sr. Scientist HQI
For Chairman

Check list of documents for obtaining authorization by recyclers of Hazardous Waste as per Schedule-IV 17/3/212

A. New Cases

1. Duly filled up application in form - 1.
2. Copy of Consent to Establish (CTE) granted by the Board under Water Act, 1974 and Air Act, 1981.
3. Copy of Consent to Operate (CTO) granted by the Board under Water Act, 1974 and Air Act, 1981.
4. Occupier authorized person Certificate issued by the Management of the applicant industry.
5. Copy of emergency response plan regarding procedures for dealing with emergency situations viz. spillage or release or fire as specified in the guidelines of CPCB (refer column no. 4 of part A of application form).
6. Undertaking or declaration to comply with all provisions including the scope of submitting bank guarantee in the event of spillage, leakage or fire while handling the hazardous and other waste (refer column no. 5 of part A of application form).
7. Registration issued by the District Industries Centre showing installed capacity of unit.
8. Proof of installed capacity of plant and machinery for processing the hazardous waste issued by the District Industries Centre or any other government agency authorized in this behalf.
9. Plan showing the details of secured storage of wastes including the storage capacity.
10. Process description including process flow sheet indicating equipment details, inputs and outputs (input wastes, chemicals, products, by-products, waste generated, emissions, waste water, etc.). Attach separate sheets.
11. Design scheme of pollution control systems such as Effluent Treatment Plant, scrubbers, etc. including mode of disposal and detail of storage facility for raw material and hazardous waste generated.
12. Report on the compliance with the guidelines of CPCB from time to time for Environmentally Sound recyclers of Hazardous Waste.
13. Membership of CHWTSDF.

B. Renewal Cases

1. Duly filled up application in form - 1.
2. Self-certified compliance report in respect of effluent, emission standards supported with latest analysis report under Water Act, 1974 and Air Act, 1981 as applicable and the conditions specified in the authorization for hazardous

- and other wastes alongwith copies of annual returns of last 3 years.
3. Copy of valid Consent to Operate (CTO) granted by the Board under Water Act, 1974 and Air Act, 1981.
 4. Occupier/ authorized person Certificate issued by the Management of the applicant industry.
 5. Undertaking or declaration to comply with all provisions including the scope of submitting bank guarantee in the event of spillage, leakage or fire while handling the hazardous and other waste (refer column no. 5 of part A of application form).
 6. Agreement made with the operator of CHWTSDF/ Service providers for disposal of Hazardous waste generated from the facility.
 7. Report on the compliance with the guidelines of CPCB from time to time for Environmentally Sound recyclers of Hazardous Waste.
- Note:
1. In case, there is an increase in capacity then the applicant will apply a fresh and will obtain CTE from the Board for the same.
 2. The application and documents to be submitted in duplicate.

Verification report for the application of authorization for recycling of Hazardous Waste listed in schedule-IV of Hazardous & Other Waste (H&OW) Rules, 2016 regarding M/s _____

(To be submitted by Regional Officer)

1. Name of the unit
2. Location of the unit
3. Date of Receipt of application
4. Capital investment cost of the unit
5. Category of Hazardous Waste to be processed
6. Date of issuance of CTE with validity date
7. Date of issue of CTO with validity date
8. Date of completion of the project
9. Date of inspection
10. Name & designation of the officer inspected the unit
11. Details of source of Hazardous Waste to be procured
12. Quantity of Hazardous Waste to be reprocessed/recycled
13. Installed capacity of unit for reprocessing the hazardous waste
14. Mode of final disposal of Hazardous Waste
15. Status regarding membership/agreement with CRWTSDF
16. Status of ETP/ APCM installed
(Give details of each component)
17. Status regarding storage facility at site for storage of raw material (hazardous waste to be processed) & hazardous waste to be generated
18. Status of Energy meter installed on PCD
19. Quantity, coefficient & its final mode of disposal
Domestic Effluent Quantity Mode of Disposal
Trade Effluent
20. Height of Stack is attached with process from ground level (in meters)
21. Stack height as per sets from ground level (in meters)
22. Comments & details on compliance of guidelines followed by the unit for installation of Environmental sound technology regarding commonly recyclable Hazardous Waste as per schedule-IV of H&OW Rules prepared by CPCB in January, 2016 or as amended from time to time
23. Give details regarding compliance of the conditions specified in the authorization/ registration earlier granted (for renewal cases)
24. Remarks
25. Recommendations
 - a. In case of grant

Certified that the applicant is utilizing environmentally sound technologies and possesses adequate technical capabilities, requisite facilities and equipment to recycle / reprocess hazardous waste.

Therefore authorization to the applicant is recommended.

b. (In case of refusal)

In case the applicant is not complying the above mentioned stipulations then the Regional Officer will issue show cause notice for refusal of authorization to the unit before sending the case for rejection and will submit final recommendations thereafter on the basis of reply submitted by the applicant.

Signature of Field Officer

Name & Designation

Signature of Regional Officer

Name

Agenda Item No. 176, 18(S) Procedure for obtaining the authorization for actual users of hazardous & other waste including for utilization of hazardous & other waste for which Standard Operating Procedure (SoPs)/Guidelines were issued by CPCB except for recycler of hazardous waste listed in Schedule-IV of the Hazardous & Other Waste (M&TM) Rules, 2016

The Ministry of Environment, Forest & Climate Change, Govt. of India has notified the Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016 (**Annexure-I**) on 4th April, 2016 in supersession of Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008.

As per provisions of Rule 9 of Hazardous & Other Waste (Management & Trans-boundary Movement) Rules, 2016, the utilization of hazardous and other wastes as a resource or after pre-processing either for co-processing or for any other use, including within premises of the generator (if it is not part of process), shall be carried out only after obtaining authorization from the State Pollution Control Board in respect of waste for which Standard Operating Procedure (SoPs) or guidelines has been provided by the Central Pollution Control Board and where Standard Operating Procedure (SoPs) or guidelines are not available for specific utilization, the approval has to be sought from Central Pollution Control Board.

As per provisions of Rule 9 of Hazardous & Other Waste (Management & Trans-boundary Movement) Rules, 2016, the Board is empowered for grant/renewal of authorization to the actual users of hazardous and other waste including for utilization of hazardous and other wastes for which standard operating procedure (SoPs)/guidelines issued by CPCB under the said Rules.

Accordingly a procedure has been laid down for processing the application for authorization for actual users of hazardous and other waste including utilization except for the recycler of hazardous waste listed in Schedule-IV of Hazardous & Other Waste (M&TM) Rules, 2016 and circulated vide order Endst. No. HSPCB/HW/ 2016/426-446 dated 19.08.2016 (**Annexure-II**).

The matter is placed before the Board for consideration and Ex-Post Facto approval please.

[PUBLISHED IN THE GAZETTE OF INDIA, EXTRAORDINARY, PART II,
SECTION 3, SUB-SECTION (i)]

GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

NOTIFICATION

New Delhi, the 04th April, 2016

G.S.R No. 395 (E). - Whereas the draft rules, namely the Hazardous And Other Wastes (Management and Transboundary Movement) Rules, 2015, were published by the Government of India in the Ministry of Environment, Forest and Climate Change vide number G.S.R. 582(E), dated the 24th July, 2015 in the Gazette of India, Extraordinary Part II, section 3, sub-section (i) inviting objections and suggestions from all persons likely to be affected thereby, before the expiry of the period of sixty days from the date on which copies of the Gazette containing the said notification were made available to the public;

AND WHEREAS the copies of the said Gazette containing the said notification were made available to the public on the 24th day of July, 2015;

AND WHEREAS the objections and suggestions received within the specified period from the public in respect of the said draft rules have been duly considered by the Central Government;

NOW, THEREFORE, in exercise of the powers conferred by sections 6, 8 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), and in supersession of the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008, except as respects things done or omitted to be done before such supersession, the Central Government hereby makes the following rules, namely:-

CHAPTER I

PRELIMINARY

1. **Short title and commencement.** - (1) These rules may be called the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016
- (2) They shall come into force on the date of their publication in the Official Gazette.
2. **Application.** - These rules shall apply to the management of hazardous and other wastes as specified in the Schedules to these rules but shall not apply to -
 - (a) waste-water and exhaust gases as covered under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 (6 of 1974) and the Air (Prevention and Control of Pollution) Act, 1981 (14 of 1981) and the rules made thereunder and as amended from time to time;
 - (b) wastes arising out of the operation from ships beyond five kilometres of the relevant baseline as covered under the provisions of the Merchant Shipping Act, 1958 (44 of 1958) and the rules made thereunder and as amended from time to time.

- (c) radio-active wastes as covered under the provisions of the Atomic Energy Act, 1962 (33 of 1962) and the rules made thereunder and as amended from time to time;
- (d) bio-medical wastes covered under the Bio-Medical Wastes (Management and Handling) Rules, 1998 made under the Act and as amended from time to time; and
- (e) wastes covered under the Municipal Solid Wastes (Management and Handling) Rules, 2000 made under the Act and as amended from time to time.
3. **Definitions.** - (1) In these rules, unless the context otherwise requires,-
1. "Act" means the Environment (Protection) Act, 1986 (29 of 1986);
 2. "actual user" means an occupier who procures and processes hazardous and other waste for reuse, recycling, recovery, pre-processing, utilisation including co-processing;
 3. "authorisation" means permission for generation, handling, collection, reception, treatment, transport, storage, reuse, recycling, recovery, pre-processing, utilisation including co-processing and disposal of hazardous wastes granted under sub-rule (2) of rule 5;
 4. "Basel Convention" means the United Nations Environment Programme Convention on the Control of Transboundary Movement of Hazardous Wastes and their Disposal;
 5. "captive treatment, storage and disposal facility" means a facility developed within the premises of an occupier for treatment, storage and disposal of wastes generated during manufacture, processing, treatment, package, storage, transportation, use, collection, destruction, conversion, offering for sale, transfer or the like of hazardous and other wastes;
 6. "Central Pollution Control Board" means the Central Pollution Control Board constituted under sub-section (1) of section 3 of the Water (Prevention and Control of Pollution) Act, 1974 (6 of 1974);
 7. "common treatment, storage and disposal facility" means a common facility identified and established individually or jointly or severally by the State Government, occupier, operator of a facility or any association of occupiers that shall be used as common facility by multiple occupiers or actual users for treatment, storage and disposal of the hazardous and other wastes;
 8. "co-processing" means the use of waste materials in manufacturing processes for the purpose of energy or resource recovery or both and resultant reduction in the use of conventional fuels or raw materials or both through substitution;
 9. "critical care medical equipment" means life saving equipment and includes such equipment as specified by the Ministry of Health and Family Welfare from time to time;
 10. "disposal" means any operation which does not lead to reuse, recycling, recovery, utilisation including co-processing and includes physico-chemical treatment, biological treatment, incineration and disposal in secured landfill;

11. "export", with its grammatical variations and cognate expressions, means taking out of India to a place outside India;
12. "exporter" means any person or occupier under the jurisdiction of the exporting country who exports hazardous or other wastes, including the country which exports hazardous or other waste;
13. "environmentally sound management of hazardous and other wastes" means taking all steps required to ensure that the hazardous and other wastes are managed in a manner which shall protect health and the environment against the adverse effects which may result from such waste;
14. "environmentally sound technologies" means any technology approved by the Central Government from time to time;
15. "facility" means any establishment wherein the processes incidental to the generation, handling, collection, reception, treatment, storage, reuse, recycling, recovery, pre-processing, co-processing, utilisation and disposal of hazardous and, or, other wastes are carried out;
16. "Form" means a form appended to these rules;
17. "hazardous waste" means any waste which by reason of characteristics such as physical, chemical, biological, reactive, toxic, flammable, explosive or corrosive, causes danger or is likely to cause danger to health or environment, whether alone or in contact with other wastes or substances, and shall include -
- (i) waste specified under column (3) of Schedule I;
 - (ii) waste having equal to or more than the concentration limits specified for the constituents in class A and class B of Schedule II or any of the characteristics as specified in class C of Schedule II; and
 - (iii) wastes specified in Part A of Schedule III in respect of import or export of such wastes or the wastes not specified in Part A but exhibit hazardous characteristics specified in Part C of Schedule III;
18. "import", with its grammatical variations and cognate expressions, means bringing into India from a place outside India;
19. "importer" mean any person or occupier who imports hazardous or other waste;
20. "manifest" means transporting document prepared and signed by the sender authorised in accordance with the provisions of these rules;
21. "occupier" in relation to any factory or premises, means a person who has, control over the affairs of the factory or the premises and includes in relation to any hazardous and other wastes, the person in possession of the hazardous or other waste;
22. "operator of disposal facility" means a person who owns or operates a facility for collection, reception, treatment, storage and disposal of hazardous and other wastes.
23. "other wastes" means wastes specified in Part B and Part D of Schedule III for import or export and includes all such waste generated indigenously within the country.

24. "pre-processing" means the treatment of waste to make it suitable for co-processing or recycling or for any further processing;
25. "recycling" means reclamation and processing of hazardous or other wastes in an environmentally sound manner for the originally intended purpose or for other purposes;
26. "reuse" means use of hazardous or other waste for the purpose of its original use or other use;
27. "recovery" means any operation or activity wherein specific materials are recovered;
28. "Schedule" means a Schedule appended to these rules;
29. "State Government" in relation to a Union territory means, the Administrator thereof appointed under article 239 of the Constitution;
30. "State Pollution Control Board" means the State Pollution Control Board constituted under section 4 of the Water (Prevention and Control of Pollution) Act, 1974 (6 of 1974) and includes, in relation to a Union territory, the Pollution Control Committee;
31. "storage" mean storing any hazardous or other waste for a temporary period, at the end of which such waste is processed or disposed of;
32. "transboundary movement" means any movement of hazardous or other wastes from an area under the jurisdiction of one country to or through an area under the jurisdiction of another country or to or through an area not under the jurisdiction of any country, provided that at least two countries are involved in the movement;
33. "transport" means off-site movement of hazardous or other wastes by air, rail, road or water;
34. "transporter" means a person engaged in the off-site transportation of hazardous or other waste by air, rail, road or water;
35. "treatment" means a method, technique or process, designed to modify the physical, chemical or biological characteristics or composition of any hazardous or other waste so as to reduce its potential to cause harm;
36. "used oil" means any oil-
- (i) derived from crude oil or mixtures containing synthetic oil including spent oil, used engine oil, gear oil, hydraulic oil, turbine oil, compressor oil, industrial gear oil, heat transfer oil, transformer oil and their tank bottom sludges; and
 - (ii) suitable for reprocessing, if it meets the specification laid down in Part A of Schedule V but does not include waste oil;
37. "utilisation" means use of hazardous or other waste as a resource;

- 18/6/200
38. "waste" means materials that are not products or by-products, for which the generator has no further use for the purposes of production, transformation or consumption.

Explanation.- for the purposes of this clause,

- (i) waste includes the materials that may be generated during, the extraction of raw materials, the processing of raw materials into intermediates and final products, the consumption of final products, and through other human activities and excludes residuals recycled or reused at the place of generation; and
- (ii) by-product means a material that is not intended to be produced but gets produced in the production process of intended product and is used as such;
39. "waste oil" means any oil which includes spills of crude oil, emulsions, tank bottom sludge and slop oil generated from petroleum refineries, installations or ships and can be used as fuel in furnaces for energy recovery, if it meets the specifications laid down in Part-B of Schedule V either as such or after reprocessing.

(2) Words and expressions used in these rules and not defined but defined in the Act shall have the meanings respectively assigned to them in the Act.

CHAPTER II

PROCEDURE FOR MANAGEMENT OF HAZARDOUS AND OTHER WASTES

4. Responsibilities of the occupier for management of hazardous and other wastes.-

(1) For the management of hazardous and other wastes, an occupier shall follow the following steps, namely:-

- (a) prevention;
- (b) minimization;
- (c) reuse,
- (d) recycling;
- (e) recovery, utilisation including co-processing;
- (f) safe disposal.

(2) The occupier shall be responsible for safe and environmentally sound management of hazardous and other wastes.

(3) The hazardous and other wastes generated in the establishment of an occupier shall be sent or sold to an authorised actual user or shall be disposed of in an authorised disposal facility.

(4) The hazardous and other wastes shall be transported from an occupier's establishment to an authorised actual user or to an authorised disposal facility in accordance with the provisions of these rules.

(5) The occupier who intends to get its hazardous and other wastes treated and disposed of by the operator of a treatment, storage and disposal facility shall give to the operator of that facility, such specific information as may be needed for safe storage and disposal.

(6) The occupier shall take all the steps while managing hazardous and other wastes to-

- (a) contain contaminants and prevent accidents and limit their consequences on human beings and the environment; and
- (b) provide persons working in the site with appropriate training, equipment and the information necessary to ensure their safety.

5. **Responsibilities of State Government for environmentally sound management of hazardous and other wastes.** – (1) Department of Industry in the State or any other government agency authorised in this regard by the State Government, to ensure earmarking or allocation of industrial space or shed for recycling, pre-processing and other utilisation of hazardous or other waste in the existing and upcoming industrial park, estate and industrial clusters;

(2) Department of Labour in the State or any other government agency authorised in this regard by the State Government shall,

- (a) ensure recognition and registration of workers involved in recycling, pre-processing and other utilisation activities,
- (b) assist formation of groups of such workers to facilitate setting up such facilities,
- (c) undertake industrial skill development activities for the workers involved in recycling, pre-processing and other utilisation,
- (d) undertake annual monitoring and to ensure safety and health of workers involved in recycling, pre-processing and other utilisation.

(3) Every State Government may prepare integrated plan for effective implementation of these provisions and to submit annual report to the Ministry of Environment, Forest and Climate Change, in the Central Government.

6. **Grant of authorisation for managing hazardous and other wastes.**– (1) Every occupier of the facility who is engaged in handling, generation, collection, storage, packaging, transportation, use, treatment, processing, recycling, recovery, pre-processing, co-processing, utilisation, offering for sale, transfer or disposal of the hazardous and other wastes shall be required to make an application in Form 1 to the State Pollution Control Board and obtain an authorisation from the State Pollution Control Board within a period of sixty days from the date of publication of these rules. Such application for authorisation shall be accompanied with a copy each of the following documents, namely:-

- (a) consent to establish granted by the State Pollution Control Board under the Water (Prevention and Control of Pollution) Act, 1974 (25 of 1974) and the Air (Prevention and Control of Pollution) Act, 1981 (21 of 1981);
- (b) Consent to operate granted by the State Pollution Control Board under the Water (Prevention and Control of Pollution) Act, 1974 (25 of 1974) and/or Air (Prevention and Control of Pollution) Act, 1981, (21 of 1981);
- (c) in case of renewal of authorisation, a self-certified compliance report in respect of effluent, emission standards and the conditions specified in the authorisation for hazardous and other wastes;

Provided that an application for renewal of authorisation may be made three months before the expiry of such authorisation:

Provided further that-

- (i) any person authorised under the provisions of the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008, prior to the date of commencement

- of these rules, shall not be required to make an application for authorisation till the period of expiry of such authorisation;
- (ii) any person engaged in recycling or reprocessing of the hazardous waste specified in Schedule IV and having registration under the provisions of the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008, shall not be required to make an application for authorisation till the period of expiry of such registration.

(2) On receipt of an application complete in all respects for the authorisation, the State Pollution Control Board may, after such inquiry as it considers necessary, and on being satisfied that the applicant possesses appropriate facilities for collection, storage, packaging, transportation, treatment, processing, use, destruction, recycling, recovery, pre-processing, co-processing, utilisation, offering for sale, transfer or disposal of the hazardous and other waste, as the case may be, and after ensuring technical capabilities and equipment complying with the standard operating procedure or other guidelines specified by the Central Pollution Control Board from time to time and through site inspection, grant within a period of one hundred and twenty days, an authorisation in Form 2 to the applicant, which shall be valid for a period of five years subject to such conditions as may be laid down therein. For commonly recyclable hazardous waste as given in Schedule IV, the guidelines already prepared by the Central Pollution Control Board shall be followed:

Provided that in the case of an application for renewal of authorisation, the State Pollution Control Board may, before granting such authorisation, satisfy itself that there has been no violation of the conditions specified in the authorisation earlier granted by it and same shall be recorded in the inspection report.

(3) The authorisation granted by the State Pollution Control Board under sub-rule (2) shall be accompanied by a copy of the field inspection report signed by that Board indicating the adequacy of facilities for collection, storage, packaging, transportation, treatment, processing, use, destruction, recycling, recovery, pre-processing, co-processing, utilisation, offering for sale, transfer or disposal of the hazardous and other wastes and compliance to the guidelines or standard operating procedures specified by the Central Pollution Control Board from time to time.

(4) The State Pollution Control Board may, for the reasons to be recorded in writing and after giving reasonable opportunity of being heard to the applicant, refuse to grant any authorisation under these rules.

(5) Every occupier authorised under these rules, shall maintain a record of hazardous and other wastes managed by him in Form 3 and prepare and submit to the State Pollution Control Board, an annual return containing the details specified in Form 4 on or before the 30th day of June following the financial year to which that return relates.

(6) The State Pollution Control Board shall maintain a register containing particulars of the conditions imposed under these rules for management of hazardous and other wastes and it shall be open for inspection during office hours to any interested or affected person.

(7) The authorised actual user of hazardous and other wastes shall maintain records of hazardous and other wastes purchased in a passbook issued by the State Pollution Control Board along with the authorisation.

(8) Handing over of the hazardous and other wastes to the authorised actual user shall be only after making the entry into the passbook of the actual user.

7. **Power to suspend or cancel an authorisation.**- (1) The State Pollution Control Board may, if in its opinion the holder of the authorisation has failed to comply with any of the conditions of the authorisation or with any provisions of the Act or these rules and after giving him a reasonable opportunity of being heard and after recording reasons thereof in writing cancel or suspend the authorisation issued under rule 6 for such period as it considers necessary in the public interest.

(2) Upon suspension or cancellation of the authorisation, the State Pollution Control Board may give directions to the person whose authorisation has been suspended or cancelled for the safe storage and management of the hazardous and other wastes, and such occupier shall comply with such directions.

8. **Storage of hazardous and other wastes.**- (1) The occupiers of facilities may store the hazardous and other wastes for a period not exceeding ninety days and shall maintain a record of sale, transfer, storage, recycling, recovery, pre-processing, co-processing and utilisation of such wastes and make these records available for inspection:

Provided that the State Pollution Control Board may extend the said period of ninety days in following cases, namely:-

- (i) small generators (up to ten tonnes per annum) up to one hundred and eighty days of their annual capacity;
- (ii) actual users and disposal facility operators up to one hundred and eighty days of their annual capacity;
- (iii) occupiers who do not have access to any treatment, storage, disposal facility in the concerned State; or
- (iv) the waste which needs to be specifically stored for development of a process for its recycling, recovery, pre-processing, co-processing or utilisation;
- (v) in any other case, on justifiable grounds up to one hundred and eighty days.

9. **Utilisation of hazardous and other wastes.**- (1) The utilisation of hazardous and other wastes as a resource or after pre-processing either for co-processing or for any other use, including within the premises of the generator (if it is not part of process), shall be carried out only after obtaining authorisation from the State Pollution Control Board in respect of waste on the basis of standard operating procedures or guidelines provided by the Central Pollution Control Board.

(2) Where standard operating procedures or guidelines are not available for specific utilisation, the approval has to be sought from Central Pollution Control Board which shall be granting approval on the basis of trial runs and thereafter, standard operating procedures or guidelines shall be prepared by Central Pollution Control Board:

Provided, if trial run has been conducted for particular waste with respect to particular utilisation and compliance to the environmental standards has been demonstrated, authorisation may be granted by the State Pollution Control Board with respect to the same waste and utilisation, without need of separate trial run by Central Pollution Control Board and such cases of successful trial run, Central Pollution Control Board shall intimate all the State Pollution Control Board regarding the same.

(3) No trial runs shall be required for co-processing of waste in cement plants for which guidelines by the Central Pollution Control Board are already available; however, the actual users shall

for compliance to the standards notified under the Environment (Protection) Act, 1986 (29 of 1986), for cement plant with respect to co-processing of waste:

Provided that till the time the standards are notified, the procedure as applicable to other kind of utilisation of hazardous and other waste, as enumerated above shall be followed.

10. **Standard Operating Procedure or guidelines for actual users.**- The Ministry of Environment, Forest and Climate Change or the Central Pollution Control Board may issue guidelines or standard operating procedures for environmentally sound management of hazardous and other wastes from time to time.

CHAPTER III

IMPORT AND EXPORT OF HAZARDOUS AND OTHER WASTES

11. **Import and export (transboundary movement) of hazardous and other wastes.**- The Ministry of Environment, Forest and Climate Change shall be the nodal Ministry to deal with the transboundary movement of the hazardous and other wastes in accordance with the provisions of these rules.

12. **Strategy for Import and export of hazardous and other wastes.**- (1) No import of the hazardous and other wastes from any country to India for disposal shall be permitted.

(2) The import of hazardous and other wastes from any country shall be permitted only for recycling, recovery, reuse and utilisation including co-processing.

(3) The import of hazardous waste in Part A of Schedule III may be allowed to actual users with the prior informed consent of the exporting country and shall require the permission of the Ministry of Environment, Forest and Climate Change.

(4) The import of other wastes in Part B of Schedule III may be allowed to actual users with the permission of the Ministry of Environment, Forest and Climate Change.

(5) The import of other wastes in Part D of Schedule III will be allowed as per procedure given in rule 13 and as per the note below the said Schedule.

(6) No import of the hazardous and other wastes specified in Schedule VI shall be permitted.

(7) The export of hazardous and other wastes from India listed in Part A and Part B of Schedule III and Schedule VI shall be with the permission of Ministry of Environment, Forest and Climate Change. In case of applications for export of hazardous and other waste listed in Part A of Schedule III and Schedule VI, they shall be considered on the basis of prior informed consent of the importing country.

(8) The import and export of hazardous and other wastes not specified in Schedule III, but exhibiting the hazardous characteristics outlined in Part C of Schedule III shall require prior written permission of the Ministry of Environment, Forest and Climate Change before it is imported to or exported from India, as the case may be.

3. **Procedure for import of hazardous and other wastes.**- (1) Actual users intending to import or transit for transboundary movement of hazardous and other wastes specified in Part A and Part B of Schedule III shall apply in Form 5 along with the documents listed therein, to the Ministry of Environment, Forest and Climate Change for the proposed import together with the prior informed consent of the exporting country in respect of Part A of Schedule III waste, and shall send a copy of the application, simultaneously, to the concerned State Pollution Control Board for information and the acknowledgement in this respect from the concerned State Pollution Control Board shall be submitted to the Ministry of Environment, Forest and Climate Change along with the application.

(2) For the import of other wastes listed in Part D of Schedule III, the importer shall not require the permission of the Ministry of Environment, Forest and Climate Change. However, the importer shall furnish the required information as per Form 6 to the Customs authorities, accompanied with the following documents in addition to those listed in Schedule VIII, wherever applicable. For used electrical and electronic assemblies listed at serial numbers 4 (e) to 4(i) of Schedule VIII (Serial No. B1110), there is no specific requirement of documentation under these rules:

- (a) the import license from Directorate General of Foreign Trade, if applicable;
- (b) the valid consents under the Water (Prevention and Control of Pollution) Act, 1974 (25 of 1974) and the Air (Prevention and Control of Pollution) Act, 1981 (21 of 1981) and the authorisation under these rules as well as the authorisation under the E-Waste (Management and Handling) Rules, 2011, as amended from time to time, whichever applicable;
- (c) importer who is a trader, importing waste on behalf of actual users, shall obtain one time authorisation in Form 7 and copy of this authorisation shall be appended to Form 6.

(3) For Part B of Schedule III, in case of import of any used electrical and electronic assemblies or spares or part or component or consumables as listed under Schedule I of the E-Waste (Management and Handling) Rules, 2011, as amended from time to time, the importer need to obtain extended producer responsibility-authorisation as producer under the said E-Waste (Management and Handling) Rules, 2011.

(4) Prior to clearing of consignment of wastes listed in Part D of Schedule III, the Custom authorities shall verify the documents as given in column (3) of Schedule VIII.

(5) On receipt of the complete application with respect to Part A and Part B of Schedule III, the Ministry of Environment, Forest and Climate Change shall examine the application considering the comments and observations, if any, received from the State Pollution Control Boards, and may grant the permission for import within a period of sixty days subject to the condition that the importer has -

- (i) the environmentally sound facilities;
- (ii) adequate arrangements for treatment and disposal of wastes generated;
- (iii) a valid authorisation and consents from the State Pollution Control Board;
- (iv) prior informed consent from the exporting country in case of Part A of Schedule III wastes.

(6) The Ministry of Environment, Forest and Climate Change shall forward a copy of the permission to the concerned Port and Customs authorities, Central Pollution Control Board and the concerned State Pollution Control Board for ensuring compliance with respect to their respective functions given in Schedule VII.

(7) The importer of the hazardous and other wastes shall maintain records of the hazardous and other waste imported by him in Form 3 and the record so maintained shall be made available for inspection.

(8) The importer of the hazardous and other wastes shall file an annual return in Form 4 to the State Pollution Control Board on or before the 30th day of June following the financial year to which that return relates.

(9) Samples of hazardous and other wastes being imported for testing or research and development purposes up to 1000 gm or 1000 ml shall be exempted from need of taking permission for import under these rules.

(10) The Port and Customs authorities shall ensure that shipment is accompanied with the movement document as given in Form 6 and the test report of analysis of the waste, consignment, wherever applicable, from a laboratory accredited or recognised by the exporting country. In case of any doubt, the customs may verify the analysis.

14. Procedure for Export of hazardous and other wastes from India.- (1) Any occupier intending to export waste specified in Part A of Schedule III, Part B of Schedule III and Schedule VI, shall make an application in Form 5 along with insurance cover to the Ministry of Environment, Forest and Climate Change for the proposed transboundary movement of the hazardous and other wastes together with the prior informed consent in writing from the importing country in respect of wastes specified in Part A of Schedule III and Schedule VI.

(2) On receipt of an application under sub-rule (1), the Ministry of Environment, Forest and Climate Change may give permission for the proposed export within a period of sixty days from the date of submission of complete application and may impose such conditions as it may consider necessary.

(3) The Ministry of Environment, Forest and Climate Change shall forward a copy of the permission granted under sub-rule (2) to the State Pollution Control Board of the State where the waste is generated and the Pollution Control Board of the State where the port of export is located and the concerned Port and Customs authorities for ensuring compliance of the conditions of the export permission.

(4) The exporter shall ensure that no consignment is shipped before the prior informed consent is received from the importing country, wherever applicable.

(5) The exporter shall also ensure that the shipment is accompanied with movement document in Form 6.

(6) The exporter of the hazardous and other wastes shall maintain the records of the hazardous or other waste exported by him in Form 3 and the record so maintained shall be available for inspection.

15. Illegal traffic.- (1) The export and import of hazardous or other wastes from and into India, respectively shall be deemed illegal, if,-

- (i) it is without permission of the Central Government in accordance with these rules; or
- (ii) the permission has been obtained through falsification, mis-representation or fraud; or
- (iii) it does not conform to the shipping details provided in the movement documents; or

- (iv) it results in deliberate disposal (i.e., dumping) of hazardous or other waste in contravention of the Basel Convention and of general principles of international or domestic law.

(2) In case of illegal import of the hazardous or other waste, the importer shall re-export the waste in question at his cost within a period of ninety days from the date of its arrival into India and its implementation will be ensured by the concerned Port and the Custom authority. In case of disposal of such waste by the Port and Custom authorities, they shall do so in accordance with these rules with the permission of the Pollution Control Board of the State where the Port exists.

(3) In case of illegal import of hazardous or other waste, where the importer is not traceable then the waste either can be sold by the Customs authority to any user having authorisation under these rules from the concerned State Pollution Control Board or can be sent to authorised treatment, storage and disposal facility.

CHAPTER - IV

TREATMENT, STORAGE AND DISPOSAL FACILITY FOR HAZARDOUS AND OTHER WASTES

16. **Treatment, storage and disposal facility for hazardous and other wastes.**- (1) The State Government, occupier, operator of a facility or any association of occupiers shall individually or jointly or severally be responsible for identification of sites for establishing the facility for treatment, storage and disposal of the hazardous and other waste in the State.

(2) The operator of common facility or occupier of a captive facility, shall design and set up the treatment, storage and disposal facility as per technical guidelines issued by the Central Pollution Control Board in this regard from time to time and shall obtain approval from the State Pollution Control Board for design and layout in this regard.

~~(3) The State Pollution Control Board~~ shall monitor the setting up and operation of the common or captive treatment, storage and disposal facility, regularly.

(4) The operator of common facility or occupier of a captive facility shall be responsible for safe and environmentally sound operation of the facility and its closure and post closure phase, as per guidelines or standard operating procedures issued by the Central Pollution Control Board from time to time.

(5) The operator of common facility or occupier of a captive facility shall maintain records of hazardous and other wastes handled by him in **Form 3**.

(6) The operator of common facility or occupier of a captive facility shall file an annual return in **Form 4** to the State Pollution Control Board on or before the 30th day of June following the financial year to which that return relates.

CHAPTER - V

PACKAGING, LABELLING, AND TRANSPORT OF HAZARDOUS AND OTHER WASTES.

17. **Packaging and Labelling.**- (1) Any occupier handling hazardous or other wastes and operator of the treatment, storage and disposal facility shall ensure that the hazardous and other wastes are packaged in a manner suitable for safe handling, storage and transport as per the guidelines issued by the Central Pollution Control Board from time to time. The labelling shall be done as per Form 8.

(2) The label shall be of non-washable material, weather proof and easily visible.

18. **Transportation of hazardous and other wastes.**- (1) The transport of the hazardous and other waste shall be in accordance with the provisions of these rules and the rules made by the Central Government under the Motor Vehicles Act, 1988 and the guidelines issued by the Central Pollution Control Board from time to time in this regard.

(2) The occupier shall provide the transporter with the relevant information in Form 9, regarding the hazardous nature of the wastes and measures to be taken in case of an emergency and shall label the hazardous and other wastes containers as per Form 8.

(3) In case of transportation of hazardous and other waste for final disposal to a facility existing in a State other than the State where the waste is generated, the sender shall obtain 'No Objection Certificate' from the State Pollution Control Board of both the States.

(4) In case of transportation of hazardous and other waste for recycling or utilisation including co-processing, the sender shall intimate both the State Pollution Control Boards before handing over the waste to the transporter.

(5) In case of transit of hazardous and other waste for recycling, utilisation including co-processing or disposal through a State other than the States of origin and destination, the sender shall give prior intimation to the concerned State Pollution Control Board of the States of transit before handing over the wastes to the transporter.

(6) In case of transportation of hazardous and other waste, the responsibility of safe transport shall be either of the sender or the receiver ~~whosoever~~ arranges the transport and has the necessary authorisation for transport from the concerned State Pollution Control Board. This responsibility should be clearly indicated in the manifest.

(7) The authorisation for transport shall be obtained either by the sender or the receiver on whose behalf the transport is being arranged.

19. **Manifest system (Movement Document) for hazardous and other waste to be used within the country only.**- (1) The sender of the waste shall prepare seven copies of the manifest in Form 10 comprising of colour code indicated below and all seven copies shall be signed by the sender.

Copy number with colour code (1)	Purpose (2)
Copy 1 (White)	To be forwarded by the sender to the State Pollution Control Board after signing all the seven copies
Copy 2 (Yellow)	To be retained by the sender after taking signature on it from the transporter and the rest of the five signed copies to be carried by the transporter.
Copy 3 (Pink)	To be retained by the receiver (actual user or treatment storage and disposal facility operator) after receiving the waste and the remaining four copies are to be duly signed by the receiver.
Copy 4 (Orange)	To be handed over to the transporter by the receiver after accepting waste.
Copy 5 (Green)	To be sent by the receiver to the State Pollution Control Board.
Copy 6 (Blue)	To be sent by the receiver to the sender.
Copy 7 (Grey)	To be sent by the receiver to the State Pollution Control Board of the sender in case the sender is in another State.

(2) The sender shall forward copy 1 (white) to the State Pollution Control Board, and in case the hazardous or other wastes is likely to be transported through any transit State, the sender shall intimate State Pollution Control Boards of transit States about the movement of the waste.

(3) No transporter shall accept waste from the sender for transport unless it is accompanied by signed copies 3 to 7 of the manifest.

(4) The transporter shall submit copies 3 to 7 of the manifest duly signed with date to the receiver along with the waste consignment.

(5) The receiver after acceptance of the waste shall hand over copy 4 (orange) to the transporter and send copy 5 (green) to his State Pollution Control Board and send copy 6 (blue) to the sender and the copy 3 (pink) shall be retained by the receiver.

(6) The copy 7 (grey) shall only be sent to the State Pollution Control Board of the sender, if the sender is in another State.

CHAPTER VI MISCELLANIOUS

20. **Records and returns.**- (1) The occupier handling hazardous or other wastes and operator of disposal facility shall maintain records of such operations in Form 3.

(2) The occupier handling hazardous and other wastes and operator of disposal facility shall send annual returns to the State Pollution Control Board in Form 4.

(3) The State Pollution Control Board based on the annual returns received from the occupiers and the operators of the facilities for disposal of hazardous and other wastes shall prepare an annual inventory of the waste generated; waste recycled, recovered, utilised including co-processed; waste re-exported and waste disposed and submit to the Central Pollution Control Board by the 30th day of September every year. The State Pollution Control Board shall also prepare the inventory of hazardous waste generators, actual users, and common and captive

disposal facilities and shall submit the information to Central Pollution Control Board every two years.

(4) The Central Pollution Control Board shall prepare the consolidated review report on management of hazardous and other wastes and forward it to the Ministry of Environment, Forest and Climate Change, along with its recommendations before the 30th day of December once in every year.

21. **Responsibility of authorities.** - The authority specified in column (2) of Schedule VII shall perform the duties as specified in column (3) of the said Schedule subject to the provisions of these rules.

22. **Accident reporting.** - Where an accident occurs at the facility of the occupier handling hazardous or other wastes and operator of the disposal facility or during transportation, the occupier or the operator or the transporter shall immediately intimate the State Pollution Control Board through telephone, e-mail about the accident and subsequently send a report in Form 11.

23. **Liability of occupier, importer or exporter and operator of a disposal facility.** -

(1) The occupier, importer or exporter and operator of the disposal facility shall be liable for all damages caused to the environment or third party due to improper handling and management of the hazardous and other waste.

(2) The occupier and the operator of the disposal facility shall be liable to pay financial penalties as levied for any violation of the provisions under these rules by the State Pollution Control Board with the prior approval of the Central Pollution Control Board.

24. **Appeal.** - (1) Any person aggrieved by an order of suspension or cancellation or refusal of authorisation or its renewal passed by the State Pollution Control Board may, within a period of thirty days from the date on which the order is communicated to him, prefer an appeal in Form 12 to the Appellate Authority, namely, the Environment Secretary of the State.

(2) The Appellate Authority may entertain the appeal after expiry of the said period of thirty days, if it is satisfied that the appellant was prevented by sufficient cause from filing the appeal in time.

(3) Every appeal filed under this rule shall be disposed of within a period of sixty days from the date of its filing.

SCHEDULE I

[See rule 3 (1) (17) (i)]

List of processes generating hazardous wastes

S.No. (1)	Processes (2)	Hazardous Waste* (3)
1	Petrochemical processes and pyrolytic operations	1.1 Furnace or reactor residue and debris 1.2 Tarry residues and still bottoms from distillation 1.3 Oily sludge emulsion 1.4 Organic residues 1.5 Residues from alkali wash of fuels

	(2)	(3)
		1.6 Spent catalyst and molecular sieves 1.7 Oil from wastewater treatment
2.	Crude oil and natural gas production	2.1 Drill cuttings excluding those from water based mud 2.2 Sludge containing oil 2.3 Drilling mud containing oil
3.	Cleaning, emptying and maintenance of petroleum oil storage tanks including ships	3.1 cargo residue, washing water and sludge containing oil 3.2 cargo residue and sludge containing chemicals 3.3 Sludge and filters contaminated with oil 3.4 Ballast water containing oil from ships
4.	Petroleum refining or re-processing of used oil or recycling of waste oil	4.1 Oil sludge or emulsion 4.2 Spent catalyst 4.3 Slop oil 4.4 Organic residue from processes 4.5 Spent clay containing oil
5.	Industrial operations using mineral or synthetic oil as lubricant in hydraulic systems or other applications	5.1 Used or spent oil 5.2 Wastes or residues containing oil 5.3 Waste cutting oils
6.	Secondary production and / or industrial use of zinc	6.1 Sludge and filter press cake arising out of production of Zinc Sulphate and other Zinc compounds. 6.2 Zinc fines or dust or ash or skimmings in dispersible form 6.3 Other residues from processing of zinc ash or skimmings 6.4 Flue gas dust and other particulates
7.	Primary production of zinc or lead or copper and other non-ferrous metals except aluminium	7.1 Flue gas dust from roasting 7.2 Process residues 7.3 Arsenic-bearing sludge 7.4 Non-ferrous metal bearing sludge and residue. 7.5 Sludge from scrubbers
8.	Secondary production of copper	8.1 Spent electrolytic solutions 8.2 Sludge and filter cakes 8.3 Flue gas dust and other particulates
9.	Secondary production of lead	9.1 Lead bearing residues 9.2 Lead ash or particulate from flue gas 9.3 Acid from used batteries
10.	Production and/or industrial use of cadmium and arsenic and their compounds	10.1 Residues containing cadmium and arsenic
11.	Production of primary and secondary aluminum	11.1 Sludges from off-gas treatment 11.2 Cathode residues including pot lining wastes 11.3 Tar containing wastes 11.4 Flue gas dust and other particulates 11.5 Drosses and waste from treatment of salt sludge

(1)	(2)	(3)
		11.6 Used anode butts 11.7 Vanadium sludge from alumina refineries
12.	Metal surface treatment, such as etching, staining, polishing, galvanizing, cleaning, degreasing, plating, etc.	12.1 Acidic and alkaline residues 12.2 Spent acid and alkali 12.3 Spent bath and sludge containing sulphide, cyanide and toxic metals 12.4 Sludge from bath containing organic solvents 12.5 Phosphate sludge 12.6 Sludge from staining bath 12.7 Copper etching residues 12.8 Plating metal sludge
13.	Production of iron and steel including other ferrous alloys (electric furnace; steel rolling and finishing mills; Coke oven and by products plant)	13.1 Spent pickling liquor 13.2 Sludge from acid recovery unit 13.3 Benzol acid sludge 13.4 Decanter tank tar sludge 13.5 Tar storage tank residue 13.6 Residues from coke oven by product plant.
14.	Hardening of steel	14.1 Cyanide-, nitrate-, or nitrite -containing sludge 14.2 Spent hardening salt
15.	Production of asbestos or asbestos-containing materials	15.1 Asbestos-containing residues 15.2 Discarded asbestos 15.3 Dust or particulates from exhaust gas treatment.
16.	Production of caustic soda and chlorine	16.1 Mercury bearing sludge generated from mercury cell process 16.2 Residue or sludges and filter cakes 16.3 Brine sludge
17.	Production of mineral acids	17.1 Process acidic residue, filter cake, dust 17.2 Spent catalyst
18.	Production of nitrogenous and complex fertilizers	18.1 Spent catalyst 18.2 Carbon residue 18.3 Sludge or residue containing arsenic 18.4 Chromium sludge from water cooling tower
19.	Production of phenol	19.1 Residue or sludge containing phenol 19.2 Spent catalyst
20.	Production and/or industrial use of solvents	20.1 Contaminated aromatic, aliphatic or naphthenic solvents may or may not be fit for reuse. 20.2 Spent solvents 20.3 Distillation residues 20.4 Process Sludge
21.	Production and/or industrial use of paints, pigments, lacquers, varnishes and inks	21.1 Process wastes, residues and sludges 21.2 Spent solvent
22.	Production of plastics	22.1 Spent catalysts 22.2 Process residues
23.	Production and /or industrial use of glues, organic cements,	23.1 Wastes or residues (not made with vegetable or animal materials)

(1)	(2)	(3)
	adhesive and resins	23.2 Spent solvents
24.	Production of canvas and textiles	24.1 Chemical residues
25.	Industrial production and formulation of wood preservatives	25.1 Chemical residues 25.2 Residues from wood alkali bath
26.	Production or industrial use of synthetic dyes, dye-intermediates and pigments	26.1 Process waste sludge/residues containing acid, toxic metals, organic compounds 26.2 Dust from air filtration system 26.3 Spent acid 26.4 Spent solvent 26.5 Spent catalyst
27.	Production of organic-silicone compound	27.1 Process residues
28.	Production/formulation of drugs/pharmaceutical and health care product	28.1 Process Residue and wastes 28.2 Spent catalyst 28.3 Spent carbon 28.4 Off specification products 28.5 Date-expired products 28.6 Spent solvents
29.	Production, and formulation of pesticides including stock-piles	29.1 Process wastes or residues 29.2 Sludge containing residual pesticides 29.3 Date-expired and off-specification pesticides 29.4 Spent solvents 29.5 Spent catalysts 29.6 Spent acids
30.	Leather tanneries	30.1 Chromium bearing residue and sludge
31.	Electronic Industry	31.1 Process residue and wastes 31.2 Spent etching chemicals and solvents
32.	Pulp and Paper Industry	32.1 Spent chemicals 32.2 Corrosive wastes arising from use of strong acid and bases 32.3 Process sludge containing adsorbable organic halides(AO _x)
33.	Handling of hazardous chemicals and wastes	33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes 33.2 Contaminated cotton rags or other cleaning materials
34.	De-contamination of barrels / containers used for handling of hazardous wastes/chemicals	34.1 Chemical-containing residue arising from decontamination. 34.2 Sludge from treatment of waste water arising out of cleaning / disposal of barrels / containers
35.	Purification and treatment of exhaust air/gases, water and waste water from the processes in this schedule and common industrial effluent treatment plants (CETP's)	35.1 Exhaust Air or Gas cleaning residue 35.2 Spent ion exchange resin containing toxic metals 35.3 Chemical sludge from waste water treatment 35.4 Oil and grease skimming 35.5 Chromium sludge from cooling water
36.	Purification process for organic	36.1 Any process or distillation residue

(1)	(2)	(3)
	compounds/solvents	36.2 Spent carbon or filter medium
37.	Hazardous waste treatment processes, e.g. pre-processing, incineration and concentration	37.1 Sludge from wet scrubbers 37.2 Ash from incinerator and flue gas cleaning residue 37.3 Concentration or evaporation residues
38.	Chemical processing of Ores containing heavy metals such as Chromium, Manganese, Nickel, Cadmium etc.	38.1 Process residues 38.2 Spent acid

- The inclusion of wastes contained in this Schedule does not preclude the use of Schedule II to demonstrate that the waste is not hazardous. In case of dispute, the matter would be referred to the Technical Review Committee constituted by Ministry of Environment, Forest and Climate Change.

Note: The high volume low effect wastes such as fly ash, Phosphogypsum, red mud, jarosite, Slags from pyrometallurgical operations, mine tailings and ore beneficiation rejects are excluded from the category of hazardous wastes. Separate guidelines on the management of these wastes shall be issued by Central Pollution Control Board.

SCHEDULE II
[See rule 3 (1) (17) (ii)]

List of waste constituents with concentration limits

Class A: Based on leachable concentration limits [Toxicity Characteristic Leaching Procedure (TCLP) or Soluble Threshold Limit Concentration (STLC)]

Class	Constituents	Concentration in mg/l
(1)	(2)	(3)
A1	Arsenic	5.0
A2	Barium	100.0
A3	Cadmium	1.0
A4	Chromium and/or Chromium (III) compounds	5.0
A5	Lead	5.0
A6	Manganese	10.0
A7	Mercury	0.2
A8	Selenium	1.0
A9	Silver	5.0
A10	Ammonia	50*
A11	Cyanide	20*
A12	Nitrate (as nitrate-nitrogen)	1000.0
A13	Sulphide (as H ₂ S)	5.0
A14	1,1-Dichloroethylene	0.7
A15	1,2-Dichloroethane	0.5
A16	1,4-Dichlorobenzene	7.5
A17	2,4,5-Trichlorophenol	400.0
A18	2,4,6-Trichlorophenol	2.0
A19	2,4-Dinitrotoluene	0.13
A20	Benzene	0.5
A21	Benzo (a) Pyrene	0.001
A22	Bromodichloromethane	6.0
A23	Bromoform	10.0
A24	Carbon tetrachloride	0.5
A25	Chlorobenzene	100.0
A26	Chloroform	6.0
A27	Cresol (ortho+ meta+ para)	200.0
A28	Dibromochloromethane	10.0
A29	Hexachlorobenzene	0.13
A30	Hexachlorobutadiene	0.5
A31	Hexachloroethane	3.0
A32	Methyl ethyl ketone	200.0
A33	Naphthalene	5.0
A34	Nitrobenzene	2.0
A35	Pentachlorophenol	100.0
A36	Pyridine	5.0
A37	Tetrachloroethylene	0.7
A38	Trichloroethylene	0.5

(1)	(2)	(3)
A39	Vinyl chloride	0.2
A40	2,4,5-TP (Silvex)	1.0
A41	2,4-Dichlorophenoxyacetic acid	10.0
A42	Alachlor	2.0
A43	Alpha HCH	0.001
A44	Atrazine	0.2
A45	Beta HCH	0.004
A46	Butachlor	12.5
A47	Chlordane	0.03
A48	Chlorpyrifos	9.0
A49	Delta HCH	0.004
A50	Endosulfan (alpha+ beta+ sulphate)	0.04
A51	Endrin	0.02
A52	Ethion	0.3
A53	Heptachlor (& its Epoxide)	0.008
A54	Isoproturon	0.9
A55	Lindane	0.4
A56	Malathion	19
A57	Methoxychlor	10
A58	Methyl parathion	0.7
A59	Monocrotophos	0.1
A60	Phorate	0.2
A61	Toxaphene	0.5
A62	Antimony	15
A63	Beryllium	0.75
A64	Chromium (VI)	5.0
A65	Cobalt	80.0
A66	Copper	25.0
A67	Molybdenum	350
A68	Nickel	20.0
A69	Thallium	7.0
A70	Vanadium	24.0
A71	Zinc	250
A72	Fluoride	180.0
A73	Aldrin	0.14
A74	Dichlorodiphenyltrichloroethane (DDT), Dichlorodipenyldichloroethylene (DDE), Dichlorodipenyldichloroethane (DDD)	0.1
A75	Dieldrin	0.8
A76	Kepone	2.1
A77	Mirex	2.1
A78	Polychlorinated biphenyls	5.0
A79	Dioxin (2,3,7,8-TCDD)	0.001

Class B: Based on Total Threshold Limit Concentration (TTLC)

Class	Constituent	Concentration in mg/kg
(1)	(2)	(3)
B1	Asbestos	10000
B2	Total Petroleum Hydrocarbons (TPH) (C5 - C36)	5.000

Note:

- (1) The testing method for list of constituents at A1 to A61 in Class-A, shall be based on Toxicity Characteristic Leaching Procedure (TCLP) and for extraction of leachable constituents, USEPA Test Method 1311 shall be used.
- (2) The testing method for list of constituents at A62 to A79 in Class- A, shall be based on Soluble Threshold Limit Concentration (STLC) and Waste Extraction Test (WET) Procedure given in Appendix II of section 66261 of Title 22 of California Code regulation (CCR) shall be used.
- (3) In case of ammonia (A10), cyanide (A11) and chromium VI (A64), extractions shall be conducted using distilled water in place of the leaching media specified in the TCLP/STLC procedures.
- (4) A summary of above specified leaching/extraction procedures is included in manual for characterization and analysis of hazardous waste published by Central Pollution Control Board and in case the method is not covered in the said manual, suitable reference method may be adopted for the measurement.
- (5) In case of asbestos, the specified concentration limits apply only if the substances are in a friable, powdered or finely divided state.
- (6) The hazardous constituents to be analyzed in the waste shall be relevant to the nature of the industry and the materials used in the process.
- (7) Wastes which contain any of the constituents listed below shall be considered as hazardous, provided they exhibit the characteristics listed in Class-C of this Schedule :

1.	Acid Amides
2.	Acid anhydrides
3.	Amines
4.	Anthracene
5.	Aromatic compounds other than those listed in Class A
6.	Bromates, (hypo-bromites)
7.	Chlorates (hypo-chlorites)
8.	Carbonyls
9.	Ferro-silicate and alloys
10.	Halogen- containing compounds which produce acidic vapours on contact with humid air or water e.g. silicon tetrachloride, aluminum chloride, titanium tetrachloride
11.	Halogen- silanes
12.	Halogenated Aliphatic Compounds
13.	Hydrazine (s)

14.	Hydrides
15.	Inorganic Acids
16.	Inorganic Peroxides
17.	Inorganic Tin Compounds
18.	Iodates
19.	(Iso- and thio-) Cyanates
20.	Manganese-silicate
21.	Mercaptans
22.	Metal Carbonyls
23.	Metal hydrogen sulphates
24.	Nitrides
25.	Nitriles
26.	Organic azo and azoxy Compounds
27.	Organic Peroxides
28.	Organic Oxygen Compounds
29.	Organic Sulphur Compounds
30.	Organo- Tin Compounds
31.	Organo nitro- and nitroso compounds
32.	Oxides and hydroxides except those of hydrogen, carbon, silicon, iron, aluminum, titanium, manganese, magnesium, calcium
33.	Phenanthrene
34.	Phenolic Compounds
35.	Phosphate compounds except phosphates of aluminum, calcium and iron
36.	Salts of pre-acids
37.	Total Sulphur
38.	Tungsten Compounds
39.	Tellurium and tellurium compounds
40.	White and Red Phosphorus
41.	2-Acetylaminofluorene
42.	4-Aminodiphenyl
43.	Benzidine and its salts
44.	Bis (Chloromethyl) ether
45.	Methyl chloromethyl ether
46.	1,2-Dibromo-3-chloropropane
47.	3,3'-Dichlorobenzidine and its salts
48.	4-Dimethylaminoazobenzene
49.	4-Nitrobiphenyl
50.	Beta-Propiolactone

CLASS C : Based on hazardous Characteristics

Apart from the concentration limit given above, the substances or wastes shall be classified as hazardous waste if it exhibits any of the following characteristics due to the presence of any hazardous constituents:

➤ **Class C1: Flammable-** A waste exhibits the characteristic of flammability or ignitability if a representative sample of the waste has any of the following properties, namely:-

- (i) flammable liquids, or mixture of liquids, or liquids containing solids in solution or suspension (for example, paints, varnishes, lacquers, etc; but not including substances or wastes otherwise classified on account of their dangerous characteristics), which give off a flammable vapour at temperature less than 60°C. This flash point shall be measured as per ASTM D 93-79 closed-cup test method or as determined by an equivalent test method published by Central Pollution Control Board;
- (ii) it is not a liquid and is capable, under standard temperature and pressure, of causing fire through friction, absorption of moisture or spontaneous chemical changes and, when ignited, burns vigorously and persistently creating a hazard;
- (iii) it is an ignitable compressed gas;
- (iv) It is an oxidizer and for the purposes of characterisation is a substance such as a chlorate, permanganate, inorganic peroxide, or a nitrate, that yields oxygen readily to stimulate the combustion of organic matter.

Class C2: Corrosive- A waste exhibits the characteristic of corrosivity if a representative sample of the waste has either of the following properties, namely:-

- (i) it is aqueous and has a pH less than or equal to 2 or greater than or equal to 12.5;
- (ii) it is a liquid and corrodes steel (SAE 1020) at a rate greater than 6.35 mm per year at a test temperature of 55 °C;
- (iii) it is not aqueous and, when mixed with an equivalent weight of water, produces a solution having a pH less than or equal to 2 or greater than or equal to 12.5.
- (iv) it is not a liquid and, when mixed with an equivalent weight of water, produces a liquid that corrodes steel (SAE1020) at a rate greater than 6.35 mm per year at a test temperature of 55 °C.

Note:

For the purpose of determining the corrosivity, the Bureau of Indian Standard 9040 C method for pH determination, NACE TM 01 69 : Laboratory Corrosion Testing of Metals and EPA 1110A method for corrosivity towards steel (SAE1020) to establish the corrosivity characteristics shall be adopted.

Class C3: Reactive or explosive- A waste exhibits the characteristic of reactivity if a representative sample of the waste it has any of the following properties, namely:-

- (i) it is normally unstable and readily undergoes violent change without detonating;
- (ii) it reacts violently with water or forms potentially explosive mixtures with water;
- (iii) when mixed with water, it generates toxic gases, vapours or fumes in a quantity sufficient to present a danger to human health or the environment;
- (iv) it is a cyanide or sulphide bearing waste which, when exposed to pH conditions between 2 and 12.5, can generate toxic gases, vapours or fumes in a quantity sufficient to present a danger to human health or the environmental;
- (v) it is capable of detonation or explosive reaction if it is subjected to a strong initiating source or if heated under confinement;
- (vi) it is readily capable of detonation or explosive decomposition or reaction at standard temperature and pressure;
- (vii) it is a forbidden explosive.

Class C4: Toxic- A waste exhibits the characteristic of toxicity, if :-

- (i) the concentration of the waste constituents listed in Class A and B (of this schedule) are equal to or more than the permissible limits prescribed therein;
- (ii) it has an acute oral LD50 less than 2,500 milligrams per kilogram;
- (iii) it has an acute dermal LD50 less than 4,300 milligrams per kilogram;
- (iv) it has an acute inhalation LC50 less than 10,000 parts per million as a gas or vapour;
- (v) it has acute aquatic toxicity with 50% mortality within 96 hours for zebra fish (*Brachidanio rerio*) at a concentration of 500 milligrams per litre in dilution water and test conditions as specified in BIS test method 6582 - 2001.
- (vi) it has been shown through experience or by any standard reference test- method to pose a hazard to human health or environment because of its carcinogenicity, mutagenicity, endocrine disruptivity, acute toxicity, chronic toxicity, bio-accumulative properties or persistence in the environment.

Class C5: Substances or Wastes liable to spontaneous combustion - Substances or Wastes which are liable to spontaneous heating under normal conditions encountered in transport, or to heating up on contact with air, and being then liable to catch fire.

Class C6: Substances or Wastes which, in contact with water emit flammable gases- Substances or Wastes which, by interaction with water, are liable to become spontaneously flammable or to give off flammable gases in dangerous quantities.

Class C5: Oxidizing - Substances or Wastes which, while in themselves not necessarily combustible, may, generally by yielding oxygen cause, or contribute to, the combustion of other materials.

Class C8: Organic Peroxides - Organic substances or Wastes which contain the bivalent O-O structure, which may undergo exothermic self-accelerating decomposition.

Class C9: Poisons (acute) - Substances or Wastes liable either to cause death or serious injury or to harm human health if swallowed or inhaled or by skin contact.

Class C10: Infectious substances - Substances or Wastes containing viable micro-organisms or their toxins which are known or suspected to cause disease in animals or humans.

Class C11: Liberation of toxic gases in contact with air or water - Substances or Wastes which, by interaction with air or water, are liable to give off toxic gases in dangerous quantities.

Class C12: Eco-toxic- Substances or Wastes which if released, present or may present immediate or delayed adverse impacts to the environment by means of bioaccumulation or toxic effects upon biotic systems or both.

Class C13: Capable, by any means, after disposal, of yielding another material, e.g., leachate, which possesses any of the characteristics listed above.

SCHEDULE III

[See rules 3 (1) (17) (iii), 3 (23), 12, 13 and 14]

Part A

List of hazardous wastes applicable for import and export with Prior Informed Consent [Annexure VIII of the Basel Convention*]

Basel No.	Description of Hazardous Wastes
(1)	(2)
A1	Metal and Metal bearing wastes
A1010	Metal wastes and waste consisting of alloys of any of the following but excluding such wastes specifically listed in Part B and Part D <ul style="list-style-type: none"> - Antimony - Cadmium - Lead - Tellurium
A1020	Waste having as constituents or contaminants, excluding metal wastes in massive form, any or the following: <ul style="list-style-type: none"> - Antimony, antimony compounds - Cadmium, cadmium compounds - Lead, lead compounds - Tellurium, tellurium compounds
A1040	Waste having metal carbonyls as constituents
A1050	Galvanic sludges
A1070	Leaching residues from zinc processing, dust and sludges such as jarosite, hematite, etc.
A1080	Waste zinc residues not included in Part B, containing lead and cadmium in concentrations sufficient to exhibit hazard characteristics indicated in Part C
A1090	Ashes from the incineration of insulated copper wire
A1100	Dusts and residues from gas cleaning systems of copper smelters
A1120	Waste sludges, excluding anode slimes, from electrolyte purification systems in copper electrorefining and electrowinning operations
A1140	Waste cupric chloride and copper cyanide catalysts not in liquid form note the related entry in Schedule VI
A1150	Precious metal ash from incineration of printed circuit boards not included in Part B
A1160	Waste lead acid batteries, whole or crushed
A1170	Unsorted waste batteries excluding mixtures of only Part B batteries. Waste batteries not specified in Part B containing constituents mentioned in Schedule II to an extent to render them hazardous
A2	Wastes containing principally inorganic constituents, which may contain metals and organic materials
A2010	Glass waste from cathode-ray tubes and other activated glasses
A2030	Waste catalysts but excluding such wastes specified in Part B
A3	Wastes containing principally organic constituents, which may contain metals and inorganic materials
A3010	Waste from the production or processing of petroleum coke and bitumen
A3020	Waste mineral oils unfit for their originally intended use
A3050	Wastes from production, formulation and use of resins, latex, plasticizers, glues or adhesives excluding such wastes specified in Part B (B4020)
A3120	Fluff-light fraction from shredding

(1)	(2)
A3130	Waste organic phosphorus compounds
A4	Wastes which may contain either inorganic or organic constituents
A4010	Wastes from the production, preparation and use of pharmaceutical products but excluding such waste specified in Part B
A4040	Wastes from the manufacture, formulation and use of wood-preserving chemicals (does not include wood treated with wood preserving chemicals)
A4070	Waste from the production, formulation and use of inks, dyes, pigments, paints, lacquers, varnish excluding those specified in Part B (B4010)
A4100	Wastes from industrial pollution control devices for cleaning of industrial off-gases but excluding such wastes specified in Part B
A4120	Wastes that contain, consist of or are contaminated with peroxides.
A4130	Wastes packages and containers containing Schedule II constituents in concentration sufficient to exhibit Part C of Schedule III hazard characteristics.
A4140	Waste consisting of or containing off specification or outdated chemicals (unused within the period recommended by the manufacturer) corresponding to constituents mentioned in Schedule II and exhibiting Part C of Schedule III hazard characteristics.
A4160	Spent activated carbon not included in Part B, B2060

*This List is based on Annexure VIII of the Basel Convention on Transboundary Movement of Hazardous Wastes and comprises of wastes characterized as hazardous under Article 1, paragraph 1(a) of the Convention. Inclusion of wastes on this list does not preclude the use of hazard

Characteristics given in Annexure VIII of the Basel Convention (Part C of this Schedule) to demonstrate that the wastes are not hazardous. Hazardous wastes in Part-A are restricted and cannot be allowed to be imported without permission from the Ministry of Environment, Forest and Climate Change and the Directorate General of Foreign Trade license, if applicable.

Part B

List of other wastes applicable for import and export and not requiring Prior Informed Consent [Annex IX of the Basel Convention*]

Basel No.	Description of wastes
(1)	(2)
B1	Metal and metal-bearing wastes
B1010	Metal and metal-alloy wastes in metallic, non-dispersible form: <ul style="list-style-type: none"> - Thorium scrap - Rare earths scrap
B1020	Clean, uncontaminated metal scrap, including alloys, in bulk finished form (sheet, plates, beams, rods, etc.), of: <ul style="list-style-type: none"> - Antimony scrap - Beryllium scrap - Cadmium scrap - Lead scrap (excluding lead acid batteries) - Selenium scrap - Tellurium scrap
B1030	Refractory metals containing residues

#1	(2)
B1031	Molybdenum, tungsten, titanium, tantalum, niobium and rhenium metal and metal alloy wastes in metallic dispersible form (metal powder), excluding such wastes as specified in Part A under entry A1050, Galvanic sludges
B1040	Scrap assemblies from electrical power generation not contaminated with lubricating oil, PCB or PCT to an extent to render them hazardous
B1050	Mixed non-ferrous metal, heavy fraction scrap, containing cadmium, antimony, lead & tellurium mentioned in Schedule II in concentrations sufficient to exhibit Part C characteristics
B1060	Waste selenium and tellurium in metallic elemental form including powder
B1070	Waste of copper and copper alloys in dispersible form, unless they contain any of the constituents mentioned in Schedule II to an extent that they exhibit Part C characteristics
B1080	Zinc ash and residues including zinc alloys residues in dispersible form unless they contain any of the constituents mentioned in Schedule II in concentration such as to exhibit Part C characteristics
B1090	Waste batteries conforming to a standard battery specification, excluding those made with lead, cadmium or mercury
B1100	Metal bearing wastes arising from melting, smelting and refining of metals: <ul style="list-style-type: none"> - Slags from copper processing for further processing or refining containing arsenic, lead or cadmium - Slags from precious metals processing for further refining - Wastes of refractory linings, including crucibles, originating from copper smelting - Tantalum-bearing tin slags with less than 0.5% tin
B1110	Used Electrical and electronic assemblies other than those listed in Part D of Schedule III Electronic assemblies consisting only of metals or alloys Waste electrical and electronic assemblies or scrap (including printed circuit boards) not containing components such as accumulators and other batteries included in Part A of Schedule III, mercury-switches, glass from cathode-ray tubes and other activated glass and PCB-capacitors, or not contaminated with Schedule II constituents such as cadmium, mercury, lead, polychlorinated biphenyl) or from which these have been removed, to an extent that they do not possess any of the characteristics contained in Part C of Schedule III (note the related entry in Schedule VI, A1180)
B1120	Spent catalysts excluding liquids used as catalysts, containing any of: Transition metals, excluding waste catalysts (spent catalysts, liquid used catalysts or other catalysts) in Part A and Schedule VI: <ul style="list-style-type: none"> - Scandium - Vanadium - Manganese - Cobalt - Copper - Yttrium - Niobium - Hafnium - Titanium - Chromium - Iron - Nickel - Zinc - Zirconium - Molybdenum - Tantalum

4)	(2)
	<ul style="list-style-type: none"> - Tungsten - Rhenium Lanthanides (rare earth metals): <ul style="list-style-type: none"> - Lanthanum - Cerium
	<ul style="list-style-type: none"> - Praseodymium - Neodymium - Samarium - Europium - Gadolinium - Terbium - Dysprosium - Holmium - Erbium - Thulium - Ytterbium - Lutetium
B1130	Cleaned spent precious metal bearing catalysts
B1140	Precious metal bearing residues in solid form which contain traces of inorganic cyanides
B1150	Precious metals and alloy wastes (gold, silver, the platinum group but not mercury) in a dispersible form, non-liquid form with appropriate packaging and labelling
B1160	Precious metal ash from the incineration of printed circuit boards (note the related entry in Part A A1150)
B1170	Precious metal ash from the incineration of photographic film
B1180	Waste photographic film containing silver halides and metallic silver
B1190	Waste photographic paper containing silver halides and metallic silver
B1200	Granulated slag arising from the manufacture of iron and steel
B1210	Slag arising from the manufacture of iron and steel including slags as a source of Titanium dioxide and Vanadium
B1220	Slag from zinc production, chemically stabilised, having a high iron content (above 20%) and processed according to industrial specifications mainly for construction
B1230	Mill scale arising from the manufacture of iron and steel
B1240	Copper Oxide mill-scale
B2	Wastes containing principally inorganic constituents, which may contain metals and organic materials
B2010	Wastes from mining operations in non-dispersible form: <ul style="list-style-type: none"> - Natural graphite waste - Slate wastes - Mica wastes - Leucite, nepheline and nepheline syenite waste - Feldspar waste - Fluorspar waste - Silica wastes in solid form excluding those used in foundry operations
B2020	Glass wastes in non-dispersible form: <ul style="list-style-type: none"> - Cullet and other waste and scrap of glass except for glass from cathode-ray tubes and other activated glasses
B2030	Ceramic wastes in non-dispersible form: <ul style="list-style-type: none"> - Cermet wastes and scrap (metal ceramic composites) - Ceramic based fibres
B2040	Other wastes containing principally inorganic constituents: <ul style="list-style-type: none"> - Partially refined calcium sulphate produced from flue gas desulphurization (FGD) - Waste gypsum wallboard or plasterboard arising from the demolition of buildings

(1)	(2)
	<ul style="list-style-type: none"> - Slag from copper production, chemically stabilized, having a high iron content (above 20%) and processed according to industrial specifications mainly for construction and abrasive applications - Sulphur in solid form - Limestone from production of calcium cyanamide (pH<9) - Sodium, potassium, calcium chlorides - Carborundum (silicon carbide) - Broken concrete - Lithium-tantalum and lithium-niobium containing glass scraps
B2060	Spent activated carbon not containing any of Schedule II constituents to the extent they exhibit Part C characteristics, for example, carbon resulting from the treatment of potable water and processes of the food industry and vitamin production (note the related entry in Part A A4160)
B2070	Calcium fluoride sludge
B2080	Waste gypsum arising from chemical industry processes not included in Schedule VI (note the related entry in A2040)
B2090	Waste anode butts from steel or aluminium production made of petroleum coke or bitumen and cleaned to normal industry specifications (excluding anode butts from chlor alkali electrolyses and from metallurgical industry)
B2100	Waste hydrates of aluminium and waste alumina and residues from alumina production, excluding such materials used for gas cleaning, flocculation or filtration processes
B2130	Bituminous material (asphalt waste) from road construction and maintenance, not containing tar (note the related entry in Schedule VI, A3200)
B3	Wastes containing principally organic constituents, which may contain metals and inorganic materials
B3027	Self-adhesive label laminate waste containing raw materials used in label material production
B3030	<p>Textile wastes</p> <p>The following materials, provided they are not mixed with other wastes and are prepared to a specification:</p> <ul style="list-style-type: none"> - Silk waste (including cocoons unsuitable for reeling, yarn waste and garnetted stock) <ul style="list-style-type: none"> • not carded or combed • other - Waste of wool or of fine or coarse animal hair, including yarn waste but excluding garnetted stock <ul style="list-style-type: none"> • noils of wool or of fine animal hair • other waste of wool or of fine animal hair • waste of coarse animal hair - Cotton waste (including yarn waste and garnetted stock) <ul style="list-style-type: none"> • yarn waste (including thread waste) • garnetted stock • other - Flax tow and waste <ul style="list-style-type: none"> • Tow and waste (including yarn waste and garnetted stock) of true hemp (<i>Cannabis sativa</i> L.) • Tow and waste (including yarn waste and garnetted stock) of jute and other textile bast fibres (excluding flax, true hemp and ramie) • Tow and waste (including yarn waste and garnetted stock) of sisal

(1)	(2)
	and other textile fibres of the genus Agave <ul style="list-style-type: none"> - Tow, noils and waste (including yarn waste and garneted stock) of coconut - Tow, noils and waste (including yarn waste and garneted stock) of abaca (Manila hemp or Musa textilis Nee) - Tow, noils and waste (including yarn waste and garneted stock) of ramie and other vegetable textile fibres, not elsewhere specified or included - Waste (including noils, yarn waste and garneted stock) of man-made fibres <ul style="list-style-type: none"> • of synthetic fibres • of artificial fibres - Worn clothing and other worn textile articles - Used rags, scrap twine, cordage, rope and cables and worn out articles of twine, cordage, rope or cables of textile materials <ul style="list-style-type: none"> • sorted • other
B3035	Waste textile floor coverings, carpets
B3040	Rubber Wastes The following materials, provided they are not mixed with other wastes: <ul style="list-style-type: none"> - Waste and scrap of hard rubber (e.g., ebonite) - Other rubber wastes (excluding such wastes specified elsewhere)
B3050	Untreated cork and wood waste: <ul style="list-style-type: none"> - Wood waste and scrap, whether or not agglomerated in logs, briquettes, pellets or similar forms - Cork waste: crushed, granulated or ground cork
B3060	Wastes arising from agro-food industries provided it is not infectious: <ul style="list-style-type: none"> - Wine lees - Dried and sterilized vegetable waste, residues and by-products, whether or not in the form of pellets, of a kind used in animal feeding, not elsewhere specified or included - Degras: residues resulting from the treatment of fatty substances or animal or vegetable waxes - Waste of bones and horn-cores, unworked, defatted, simply prepared (but not cut to shape), treated with acid or degelatinised - Fish waste - Cocoa shells, husks, skins and other cocoa waste - Other wastes from the agro-food industry excluding by-products which meet national and international requirements and standards for human or animal consumption
B3070	The following wastes: <ul style="list-style-type: none"> - Waste of human hair - Waste straw - Deactivated fungus mycelium from penicillin production to be used as animal feed
B3080	Waste parings and scrap of rubber
B3090	Paring and other wastes of leather or of composition leather not suitable for the manufacture of leather articles, excluding leather sludges, not containing hexavalent chromium compounds and biocides (note the related entry in Schedule VI, A3100)

	(2)
B3100	Leather dust, ash, sludges or flours not containing hexavalent chromium compounds or biocides (note the related entry in Schedule VI, A3090)
B3110	Fellmongery wastes not containing hexavalent chromium compounds or biocides or infectious substances (note the related entry in Schedule VI, A3110)
B3120	Wastes consisting of food dyes
B3130	Waste polymer ethers and waste non-hazardous monomer ethers incapable of forming peroxides
B3140	Waste pneumatic and other tyres, excluding those which do not lead to resource recovery, recycling, reclamation but not for direct reuse
B4	Wastes which may contain either inorganic or organic constituents
B4010	Wastes consisting mainly of water-based or latex paints, inks and hardened varnishes not containing organic solvents, heavy metals or biocides to an extent to render them hazardous (note the related entry in Part A, A4070)
B4020	Wastes from production, formulation and use of resins, latex, plasticizers, glues or adhesives, not listed in Part A, free of solvents and other contaminants to an extent that they do not exhibit Part C characteristics (note the related entry in Part A, A3050)
B4030	Used single-use cameras, with batteries not included in Part A

* This list is based on Annexure IX of the Basel Convention on Transboundary Movement of Hazardous Wastes and comprises of wastes not characterized as hazardous under Article-I of the Basel Convention. The wastes in Part- B are restricted and cannot be allowed to be imported without permission from the Ministry of Environment, Forest and Climate Change and the Directorate General of Foreign Trade license, if applicable.

Note:

- (1) Copper dross containing copper greater than 65% and lead and Cadmium equal to or less than 1.25% and 0.1% respectively; spent cleaned metal catalyst containing copper; and copper reverts, cake and residues containing lead and cadmium equal to or less than 1.25% and 0.1% respectively are allowed for import without Director General of Foreign Trade license to units (actual users) authorised by State Pollution Control Board and with the Ministry of Environment, Forest and Climate Change's permission. Copper reverts, cake and residues containing lead and cadmium greater than 1.25% and 0.1% respectively are under restricted category for which import is permitted only against Director General of Foreign Trade license for the purpose of processing or reuse by units permitted with the Ministry of Environment, Forest and Climate Change (actual users).
- (2) Zinc ash or skimmings in dispersible form containing zinc more than 65% and lead and cadmium equal to or less than 1.25% and 0.1% respectively and spent cleaned metal catalyst containing zinc are allowed for import without Director General of Foreign Trade license to units authorised by State Pollution control Board, Ministry of Environment, Forest and Climate Change's permission (actual users) upto an annual quantity limit indicated in registration letter. Zinc ash and skimmings containing less than 65% zinc and lead and cadmium equal to or more than 1.25% and 0.1% respectively and hard zinc spelter and brass dross containing lead greater than 1.25% are under restricted category for which import is permitted against Director General of Foreign Trade license and only for purpose of processing or reuse by units registered with the Ministry of Environment Forest and Climate Change (actual users).

Part C
List of Hazardous Characteristics

<u>Code</u>	<u>Characteristic</u>
H 1	<p>Explosive</p> <p>An explosive substance or waste is a solid or liquid substance or waste (or mixture of substances or wastes) which is in itself capable by chemical reaction of producing gas at such a temperature and pressure and at such a speed as to cause damage to the surrounding.</p>
H 3	<p>Flammable liquids</p> <p>The word "flammable" has the same meaning as "inflammable". Flammable liquids are liquids, or mixtures of liquids, or liquids containing solids in solution or suspension (for example, paints, varnishes, lacquers, etc. but not including substances or wastes otherwise classified on account of their dangerous characteristics) which give off a flammable vapour at temperatures of not more than 60.5°C, closed-cup test, or not more than 65.6°C, open-cup test. (Since the results of open-cups tests and of closed-cup tests are not strictly comparable and even individual results by the same test are often variable, regulations varying from the above figures to make allowance for such differences would be within the spirit of this definition).</p>
H 4:1	<p>Flammable solids</p> <p>Solids, or waste solids, other than those classed as explosives, which under conditions encountered in transport are readily combustible, or may cause or contribute to fire through friction.</p>
H 4.2	<p>Substances or wastes liable to spontaneous combustion</p> <p>Substances or wastes which are liable to spontaneous heating under normal conditions encountered in transport, or to heating up on contact with air, and being then liable to catch fire.</p>
H 4.3	<p>Substances or wastes which, in contact with water emit flammable gases</p> <p>Substances or wastes which, by interaction with water, are liable to become spontaneously flammable or to give off flammable gases in dangerous quantities.</p>
H 5.1	<p>Oxidizing</p> <p>Substances or wastes which, while in themselves not necessarily combustible, may, generally by yielding oxygen cause, or contribute to, the combustion or other materials.</p>
H 5.2	<p>Organic Peroxides</p> <p>Organic substances or wastes which contain the bivalent-o-o-structure are thermally unstable substances which may undergo exothermic self-accelerating decomposition.</p>

- H 6.1 Poisons (acute)**
Substances or wastes liable either to cause death or serious injury or to harm human health if swallowed or inhaled or by skin contact.
- H 6.2 Infectious substances**
Substances or wastes containing viable micro-organisms or their toxins which are known or suspected to cause disease in animals or humans.
- H 8 Corrosives**
Substances or wastes which, by chemical action, will cause severe damage when in contact with living tissue, or, in the case of leakage, will materially damage, or even destroy, other goods or the means of transport; they may also cause other hazards.
- H 10 Liberation of toxic gases in contact with air or water**
Substances or wastes which, by interaction with air or water, are liable to give off toxic gases in dangerous quantities.
- H 11 Toxic (delayed or chronic)**
Substances or wastes which, if they are inhaled or ingested or if they penetrate the skin, may involve delayed or chronic effects, including carcinogenicity).
- H 12 Eco-toxic**
Substances or wastes which if released, present or may present immediate or delayed adverse impacts to the environment by means of bioaccumulation or toxic effects upon biotic systems or both.
- H 13 Capable, by any means, after disposal, of yielding another material, e.g., leachate, which possesses any of the characteristics listed above.**

Part D

List of other wastes applicable for import and export without permission from Ministry of Environment, Forest and Climate Change [Annex IX of the Basel Convention*]

Basel No.	Description of wastes
(1)	(2)
B1	Metal and metal-bearing wastes
B1010	<p>Metal and metal-alloy wastes in metallic, non-dispersible form:</p> <ul style="list-style-type: none"> - Precious metals (gold, silver, platinum but not mercury) ** - Iron and steel scrap ** - Nickel scrap ** - Aluminium scrap ** - Zinc scrap ** - Tin scrap ** - Tungsten scrap ** - Molybdenum scrap ** - Tantalum scrap ** - Cobalt scrap ** - Bismuth scrap ** - Titanium scrap ** - Zirconium scrap ** - Manganese scrap ** - Germanium scrap ** - Vanadium scrap ** - Hafnium scrap ** - Indium scrap ** - Niobium scrap ** - Rhenium scrap ** - Gallium scrap ** - Magnesium scrap ** - Copper scrap ** - Chromium scrap **
B1050	Mixed non-ferrous metal, heavy fraction scrap, containing metals other than specified in Part B1050 and not containing constituents mentioned in Schedule II in concentrations sufficient to exhibit Part C characteristics* *
B1100	<p>Metal bearing wastes arising from melting, smelting and refining of metals:</p> <ul style="list-style-type: none"> - Hard Zinc spelter ** - Zinc-containing drosses ** <ul style="list-style-type: none"> ~ Galvanizing slab zinc top dross (>90% Zn) ~ Galvanizing slab zinc bottom dross (>92% Zn) ~ Zinc die casting dross (>85% Zn) ~ Hot dip galvanizers slab zinc dross (batch) (>92% Zn) ~ Zinc skimmings - Aluminium skimmings (or skims) excluding salt slag

*1	(2)
B1110	<p>Electrical and electronic assemblies (including printed circuit boards, electronic components and wires) destined for direct reuse and not for recycling or final disposal</p> <ul style="list-style-type: none"> - Used electrical and electronic assemblies imported for repair and to be re-exported back after repair within one year of import * * * - Used electrical and electronic assemblies imported for rental purpose and re-exported back within one year of import * * * - Used electrical and electronic assemblies exported for repair and to be re-import after repair - Used electrical and electronic assemblies imported for testing, research and development, project work purposes and to be re-exported back within a period of three years from the date of import * * * - Spares imported for warranty replacements provided equal number of defective or non-functional parts are exported back within one year of the import * * * - Used electrical and electronic assemblies imported by Ministry of Defence, Department of Space and Department of Atomic Energy * * * - Used electrical and electronic assemblies (not in bulk; quantity less than or equal to three) imported by the individuals for their personal uses - Used Laptop, Personal Computers, Mobile, Tablet up to 01 number each imported by organisations in a year - Used electrical and electronic assemblies owned by individuals and imported on transfer of residence - Used multifunction print and copying machines (MFDs) * * * - Used electrical and electronic assemblies imported by airlines for aircraft maintenance and remaining either on board or under the custodianship of the respective airlines warehouses located on the airside of the custom bonded areas.
B3	<p>Wastes containing principally organic constituents, which may contain metals and inorganic materials</p>
B3020	<p>Paper, paperboard and paper product wastes * *</p> <p>The following materials, provided they are not mixed with hazardous wastes: Waste and scrap of paper or paperboard of:</p> <ul style="list-style-type: none"> - unbleached paper or paperboard or of corrugated paper or paperboard - other paper or paperboard, made mainly of bleached chemical pulp, not coloured in the mass - paper or paperboard made mainly of mechanical pulp (for example newspapers, journals and similar printed matter) - other, including but not limited to <ol style="list-style-type: none"> (1) laminated paperboard (2) unsorted scrap
B3140	<p>Aircraft Tyres exported to Original Equipment Manufacturers for re-treading and re-imported after re-treading by airlines for aircraft maintenance and remaining either on board or under the custodianship of the respective airlines warehouses located on the airside of the custom bonded areas</p>

Note:

* This list is based on Annexure IX of the Basel Convention on Transboundary Movement of Hazardous Wastes and comprises of wastes not characterized as hazardous under Article-I of the Basel Convention.

* * Import permitted in the country to the actual user or to the trader on behalf of the actual users authorised by SPCB on one time basis and subject to verification of documents specified in Schedule VIII of these rules by the Custom Authority.

* * * Import permitted in the country only to the actual users from Original Equipment Manufacturers (OEM) and subject to verification of documents specified in Schedule VIII of these rules by the Custom Authority.

* * * * Import permitted in the country to the actual users or trader on behalf of the actual user in accordance with the documents required and verified by the Custom Authority as specified under Schedule VIII of these rules. The policy for free trade for multifunction print and copying machine to be reviewed once the MFDs are domestically manufactured.

All other wastes listed in Part D of Schedule III having no "Stars" are permitted without any documents from MoEF&CC subject to compliance of the conditions of the Customs Authority, if any.

SCHEDULE IV
[See rules 6 (1) (ii) and 6 (2)]

List of commonly recyclable hazardous wastes

S.No.	Wastes
(1)	(2)
1.	Brass Dross
2.	Copper Dross
3.	Copper Oxide mill scale
4.	Copper reverts, cake and residue
5.	Waste Copper and copper alloys in dispersible form
6.	Slags from copper processing for further processing or refining
7.	Insulated Copper Wire Scrap or copper with PVC sheathing including ISRI-code material namely "Druid"
8.	Jelly filled Copper cables
9.	Spent cleared metal catalyst containing copper
10.	Spent catalyst containing nickel, cadmium, Zinc, copper, arsenic, vanadium and cobalt
11.	Zinc Dross-Hot dip Galvanizers SLAB
12.	Zinc Dross-Bottom Dross
13.	Zinc ash/Skimmings arising from galvanizing and die casting operations
14.	Zinc ash/Skimming/other zinc bearing wastes arising from smelting and refining
15.	Zinc ash and residues including zinc alloy residues in dispersible form
16.	Spent cleared metal catalyst containing zinc
17.	Used Lead acid battery including grid plates and other lead scrap/ashes/residues not covered under Batteries (Management and Handling) Rules, 2001. [Battery scrap, namely: Lead battery plates covered by ISRI, Code word "Rails" Battery lugs covered by ISRI, Code word "Rakes". Scrap drained/dry while intact lead batteries covered by ISRI, Code word "rains".

(1)	(2)
18.	Components of waste electrical and electronic assemblies comprising accumulators and other batteries included in Part A of Schedule III, mercury-switches, activated glass cullets from cathode-ray tubes and other activated glass and PCB-capacitors, or any other component contaminated with Schedule II constituents (e.g. cadmium, mercury, lead, polychlorinated biphenyl) to an extent that they exhibit hazard characteristics indicated in part C of Schedule III.
19.	Paint and ink Sludge/residues
20.	Used oil and waste oil

SCHEDULE V
[See rules 3 (36) and 3 (39)]

PART A
Specifications of Used Oil Suitable for recycling

S.No.	Parameter	Maximum permissible Limits
(1)	(2)	(3)
1.	Polychlorinated biphenyls (PCBs)	< 2ppm *
2.	Lead	100 ppm
3.	Arsenic	5 ppm
4.	Cadmium+Chromium+Nickel	500 ppm
5.	Polyaromatic hydrocarbons (PAH)	6%

Part B
Specification of fuel derived from waste oil

S.No.	Parameter	Maximum permissible limits
(1)	(2)	(3)
1.	Sediment	0.25%
2.	Lead	100 ppm
3.	Arsenic	5 ppm
4.	Cadmium+Chromium+Nickel	500 ppm
5.	Polyaromatic hydrocarbons (PAH)	6%
6.	Total halogens	4000 ppm
7.	Polychlorinated biphenyls (PCBs)	<2 ppm *
8.	Sulfur	4.5%
9.	Water Content	1%

*The detection limit is 2 ppm by gas Liquid Chromatography (GLC) using Electron Capture detector (ECD)

SCHEDULE VI
 [See rules 12 (6), 12 (7) and 14(1)]

Hazardous and Other wastes prohibited for import

Basel No	Description of hazardous and other wastes
(1)	(2)
A1	Metal and Metal bearing wastes
A1010	Metal wastes and waste consisting of alloys of any of the following but excluding such wastes specifically listed in Part B and Part D of Schedule III - Arsenic - Beryllium - Mercury - Selenium - Thallium
A1020	Wastes having as constituents or contaminants, excluding metal wastes in massive form, any of the following: - Beryllium; beryllium compounds - Selenium; selenium compounds
A1030	Wastes having as constituents or contaminants any of the following: - Arsenic; arsenic compounds - Mercury; mercury compounds - Thallium; thallium compounds
A1040	Waste having hexavalent chromium compounds as constituents
A1140	Waste cupric chloride and copper cyanide catalysts in liquid form (note the related entry in Part A of Schedule III)
A1060	Wastes liquors from the pickling of metals
A1110	Spent electrolytic solutions from copper electrorefining and electrowinning operations
A1130	Spent etching solutions containing dissolved copper
A1180	Waste electrical and electronic assemblies or scrap (does not include scrap assemblies from electric power generation) containing components such as accumulators and other batteries included in Part A of Schedule III, mercury-switches, glass from cathode-ray tubes and other activated glass and PCB-capacitors, or contaminated with Schedule II constituents (e.g. cadmium, mercury, lead, polychlorinated biphenyl) to an extent that they exhibit hazard characteristics indicated in Part C of Schedule III (note the related entry in Part B B1110)
A1190	Waste metal cables coated or insulated with plastics containing or contaminated with coal tar, PCB, lead, cadmium, other organohalogen compounds or other constituents as mentioned in Schedule II to the extent that they exhibit hazard characteristics indicated in Part C of Schedule III
A2	Wastes containing principally inorganic constituents, which may contain metals and organic materials
A2020	Waste inorganic fluorine compounds in the form of liquids or sludges but excluding such wastes specified in Part B

F1)	(2)
A2040	Waste gypsum arising from chemical industry processes, if it contains any of the constituents mentioned in Schedule 2 to the extent that they exhibit hazard characteristics indicated in Part C of Schedule III (note the related entry in Part B B2080)
A2050	Waste asbestos (dusts and fibres)
A2060	Coal-fired power plant fly-ash containing Schedule II constituents in concentrations sufficient to exhibit Part C characteristics
A3	Wastes containing principally organic constituents, which may contain metals and inorganic materials
A3030	Wastes that contain, consist of or are contaminated with leaded anti-knock compounds sludges.
A3040	Waste thermal (heat transfer) fluids
A3060	Waste nitrocellulose
A3070	Waste phenols, phenol compounds including chlorophenol in the form of liquids or sludges
A3080	Waste ethers not including those specified in Part B
A3090	Waste leather dust, ash, sludges and flours when containing hexavalent chromium compounds or biocides (note the related entry in Part B B3100)
A3100	Waste paring and other waste of leather or of composition leather not suitable for the manufacture of leather articles, containing hexavalent chromium compound and biocides (note the related entry in Part B B3090)
A3110	Fellmongery wastes containing hexavalent chromium compounds or biocides or infectious substances (note the related entry in Part B B3110)
A3140	Waste non-halogenated organic solvents but excluding such wastes specified in Part B
A3150	Waste halogenated organic solvents
A3160	Waste halogenated or unhalogenated non-aqueous distillation residues arising from organic solvent recovery operations
A3170	Waste arising from the production of aliphatic halogenated hydrocarbons (such as chloromethane, dichloro-ethane, vinyl chloride, vinylidene chloride, allyl chloride and epichlorhydrin)
A3180	Wastes, substances and articles containing, consisting of or contaminated with polychlorinated biphenyl (PCB), polychlorinated terphenyl (PCT), polychlorinated naphthalene (PCN) or polybrominated biphenyl (PBB) or any other polybrominated analogues of these compounds
A3190	Waste tarry residues (excluding asphalt cements) arising from refining, distillation and any pyrolytic treatment of organic materials
A3200	Bituminous material (asphalt waste) from road construction and maintenance, containing tar (note the related entry in Part B, B2130)
A4	Wastes which may contain either inorganic or organic constituents
A4020	Clinical and related wastes; that is wastes arising from medical, nursing, dental, veterinary, or similar practices, and wastes generated in hospitals or other facilities during the investigation or treatment of patients, or research projects.
A4030	Waste from the production, formulation and use of biocide and phyto-pharmaceuticals, including waste pesticides and herbicides which are off-specification, out-dated (unused within the period recommended by the manufacturer), or unfit for their originally intended use.

*1	(2)
A4050	Wastes that contain, consist of, or are contaminated with any of the following: <ul style="list-style-type: none"> - Inorganic cyanides, excepting precious-metal-bearing residues in solid form containing traces of inorganic cyanides. - Organic cyanides
A4060	Waste oils/water, hydrocarbons/water mixtures, emulsions
A4080	Wastes of an explosive nature (but excluding such wastes specified in Part B)
A4090	Waste acidic or basic solutions, other than those specified at B2120 of this Schedule
A4110	Wastes that contain, consist of or are contaminated with any of the following: <ul style="list-style-type: none"> - Any congener of polychlorinated dibenzo-furan. - Any congener of polychlorinated dibenzo-P-dioxin.
A4150	Waste chemical substances arising from research and development or teaching activities which are not identified and /or are new and whose effects on human health and /or the environment are not known
B1	Metal and Metal bearing wastes
B 1110	Used critical care medical equipment for re-use
B1115	Waste metal cables coated or insulated with plastics, not included in A1190 of this schedule, excluding those destined for operations which do not lead to resource recovery, recycling, reclamation, direct re-use or alternative uses or any other disposal operations involving, at any stage, uncontrolled thermal processes, such as open-burning.
B1250	Waste end-of-life motor vehicles, containing neither liquids nor other hazardous components
B2	Wastes containing principally inorganic constituents, which may contain metals and organic materials
B2050	Coal-fired power plant fly-ash, note the related entry at A2060 of this Schedule
B2110	Bauxite residue (red mud) (pH moderated to less than 11.5)
B2120	Waste acidic or basic solutions with a pH greater than 2 and less than 11.5, which are not corrosive or otherwise hazardous (note the related entry at A4090 of this schedule)
B3	Wastes containing principally organic constituents, which may contain metals and inorganic materials
B3010	Solid plastic waste The following plastic or mixed plastic waste, prepared to a specification <ul style="list-style-type: none"> - Scrap plastic of non-halogenated polymers and co-polymers, including but not limited to the following: Ethylene, Styrene, Polypropylene, polyethylene terephthalate, Acrylonitrile, Butadiene, Polyacetals, Polyamides, polybutylene terephthalate, Polycarbonates, Polyethers, polyphenylene sulphides, acrylic polymers, alkanes C10-C13 (plasticiser), polyurethane (not containing CFC's), Polysiloxanes, polymethyl methacrylate, polyvinyl alcohol, polyvinyl butyral, Polyvinyl acetate - Cured waste resins or condensation products including the following: urea formaldehyde resins, phenol formaldehyde resins, melamine formaldehyde resins, epoxy resins, alkyd resins, polyamides - The following fluorinated polymer wastes (excluding post-consumer wastes):

	(2)	perfluoroethylene/ propylene, perfluoro alkoxy alkane, tetrafluoroethylene/per fluoro vinyl ether (PFA), tetrafluoroethylene/per fluoro methylvinyl ether (MFA), polyvinylfluoride, polyvinylidene fluoride
B3026	The following waste from the pre-treatment of composite packaging for liquids, not containing constituents mentioned in Schedule II in concentrations sufficient to exhibit Part C characteristics: <ul style="list-style-type: none"> - Non-separable plastic fraction - Non-separable plastic-aluminium fraction 	
B3065	Waste edible fats and oils of animal or vegetable origin (e.g. frying oil)	
B3140	Waste pneumatic tyres for direct reuse	
Y 46	Wastes collected from household/municipal waste	
Y 47	Residues arising from the incineration of household wastes	

SCHEDULE VII
[See rules 13 (6) and 21]

List of authorities and corresponding duties

S. No.	Authority	Corresponding Duties
(1)	(2)	(3)
1.	Ministry of Environment, Forests and Climate Change under the Environment (Protection) Act, 1986	<ul style="list-style-type: none"> (i) Identification of hazardous and other wastes (ii) Permission to exporters of hazardous and other wastes (iii) Permission to importer of hazardous and other wastes (iv) Permission for transit of hazardous and other wastes through India. (v) Promote environmentally sound management of hazardous and other waste. (vi) Sponsoring of training and awareness programme on Hazardous and Other Waste Management related activities.
2.	Central Pollution Control Board constituted under the Water (Prevention and Control of Pollution) Act, 1974	<ul style="list-style-type: none"> (i) Co-ordination of activities of State Pollution Control Boards (ii) Conduct training courses for authorities dealing with management of hazardous and other wastes (iii) Recommend standards and specifications for treatment and disposal of wastes and leachates, recommend procedures for characterisation of hazardous wastes.

(1)	(2)	(3)
		<ul style="list-style-type: none"> (iv) Inspection of facilities handling hazardous waste as and when necessary. (v) Sector specific documentation to identify waste for inclusion in these rules. (vi) Prepare and update guidelines to prevent or minimise the generation and handling of hazardous and other wastes. (vii) Prepare and update guidelines/ Standard Operating Procedures (SoPs) for recycling, utilization, pre-processing, co-processing of hazardous and other wastes. (viii) To prepare annual review report on management of hazardous waste. (ix) Any other function assigned by the Ministry of Environment, Forest and Climate Change, from time to time.
3.	State Government/Union Territory Government/Administration	<ul style="list-style-type: none"> (i) Identification of site (s) for common Hazardous and Other Waste Treatment Storage and Disposal Facility (TSDF) (ii) Assess Environment Impact Assessment (EIA) reports and convey the decision of approval of site or otherwise Acquire the site or inform operator of facility or occupier or association of occupiers to acquire the site (iii) Notification of sites. (iv) Publish periodically an inventory of all potential or existing disposal sites in the State or Union Territory
4.	State Pollution Control Boards or Pollution Control Committees constituted under the Water (Prevention and Control of Pollution) Act, 1974	<ul style="list-style-type: none"> (i) Inventorisation of hazardous and other wastes (ii) Grant and renewal of authorisation (iii) Monitoring of compliance of various provisions and conditions of permission including conditions of permission for issued by Ministry of Environment, Forest and Climate Change for exports and imports (iv) Examining the applications for imports submitted by the importers and forwarding the same to Ministry of Environment, Forest and Climate Change (v) Implementation of programmes to prevent or reduce or minimise the generation of hazardous and other wastes. (vi) Action against violations of these rules. (vii) Any other function under these Rules assigned by Ministry of Environment, Forest and Climate Change from time to time.
5.	Directorate General of Foreign	(i) Grant of licence for import of hazardous

(1)	(2)	(3)
	Trade constituted under the Foreign Trade (Development and Regulation) Act, 1992	and other wastes (ii) Refusal of licence for hazardous and other wastes prohibited for imports and export
6.	Port authority under Indian Ports Act, 1908 (15 of 1908) and Customs Authority under the Customs Act, 1962 (52 of 1962)	(i) Verify the documents (ii) Inform the Ministry of Environment, Forests and Climate Change of any illegal traffic (iii) Analyse wastes permitted for imports and exports, wherever required. (iv) Train officials on the provisions of these rules and in the analysis of hazardous and other wastes (v) Take action against exporter or importer for violations under the Indian Ports Act, 1908 or Customs Act, 1962

SCHEDULE VIII
[See rules 13(2) and 13 (4)]

List of documents for verification by Customs for import of other wastes specified in Part D of Schedule III

S. No.	Basel No.	Description of other wastes	List of Documents
(1)	(2)	(3)	(4)
1	B1010	Metal and metal-alloy wastes in metallic, non-dispersible form: - Precious metals (gold, silver, platinum) - Iron and steel scrap - Nickel scrap - Aluminium scrap - Zinc scrap - Tin scrap - Tungsten scrap - Molybdenum scrap - Tantalum scrap - Cobalt scrap - Bismuth scrap - Titanium scrap - Zirconium scrap - Manganese scrap - Germanium scrap - Vanadium scrap - Hafnium scrap - Indium scrap - Niobium scrap - Rhenium scrap - Gallium scrap - Magnesium scrap - Copper scrap - Chromium scrap	(a) Duly filled up Form 6 - Movement document; (b) The import license from Directorate General of Foreign Trade, wherever applicable; (c) Pre-shipment inspection certificate issued by the inspection agency of the exporting country or the inspection and certification agency approved by Directorate General of Foreign Trade; (d) The valid consents to operate under the Air and Water Acts and the authorisation under these rules, for actual users. For traders, only valid one time authorisation from concerned SPCB is required; (e) The chemical analysis report of the waste being imported; (f) an acknowledged copy of the annual return filed with concerned State Pollution Control Board for import in the last financial year.

(1)	(2)	(3)	(4)
2	B1050	Mixed non-ferrous metal, heavy fraction scrap, containing metals other than specified in Part B1050 and not containing constituents mentioned in Schedule II in concentrations sufficient to exhibit Part C characteristics* -	(a) Duly filled up Form 6 - Movement document; (b) The import license from Directorate General of Foreign Trade, wherever applicable; (b) Pre-shipment inspection certificate issued by the inspection agency of the exporting country or the inspection and certification agency approved by Directorate General of Foreign Trade; (c) The valid consents to operate under the Air and Water Acts and the authorisation under these rules, for actual users. For traders, only valid authorisation from concerned SPCB is required; (d) The chemical analysis report of the waste being imported; (e) An acknowledged copy of the annual return filed with concerned SPCB for import in the last financial year.
3	B1100	Metal bearing wastes arising from melting, smelting and refining of metals: - Hard Zinc spelter - Zinc-containing drosses: ~ Galvanizing slab zinc top dross (>90% Zn) ~ Galvanizing slab zinc bottom dross (>92% Zn) ~ Zinc die casting dross (>85% Zn) ~ Hot dip galvanizers slab zinc dross (batch) (>92% Zn) ~ Zinc skimmings - Aluminium skimmings (or skims) excluding salt slag	(c) Duly filled up Form 6 - Movement document; (d) The import license from Directorate General of Foreign Trade, wherever applicable; (e) Pre-shipment inspection certificate issued by the inspection agency of the exporting country or the inspection and certification agency approved by Directorate General of Foreign Trade; (f) The valid consents to operate under the Air and Water Acts and the authorisation under these rules, for actual users. For traders, only valid authorisation from concerned SPCB is required; (g) The chemical analysis report of the waste being imported; (h) An acknowledged copy of the annual return filed with concerned SPCB for import in the last financial year.
4	B1110	Electrical and electronic assemblies (including printed circuit boards, electronic components and wires) destined for direct reuse and not for recycling or final disposal	
(a)		Used electrical and electronic assemblies imported for repair and	(a) Duly filled up Form 6 - Movement document;

(1)	(2)	(3)	(4)
		to be re-exported after repair within one year of import	(b) Undertaking for re-export; (c) Details of previous import, if there has been any and confirmation regarding their re-export; (d) An acknowledged copy of the annual return filed with concerned SPCB for import in the last financial year (e) Certificate from exporting company for accepting the repaired and unrepairable electrical and electronic assemblies and the spares or part or component or consumables being re-exported.
(b)		Used electrical and electronic assemblies imported for rental purpose and re-exported back within one year of import	(a) Duly filled up Form 6 - Movement document; (b) Undertaking for re-export; (c) Details of previous import, if there has been any and confirmation regarding their re-export; (d) An acknowledged copy of the annual return filed with concerned SPCB for import in the last financial year
(c)		Used electrical and electronic assemblies exported for repair and to be re-imported after repair	(a) Duly filled up Form 6 - Movement document; (b) Proof of export of the defective electrical and electronic assemblies i.e. shipping or airway document authenticated by Customs
(d)		Used electrical and electronic assemblies imported for testing, research and development, project work purposes and to be re-exported back within a period of three years from the date of import	(a) Duly filled up Form 6 - Movement document; (b) Undertaking for re-export. (c) Details of previous import, if there has been any and confirmation regarding their re-export; (d) Chartered Engineer Certificate or certificate from accredited agency of exporting country indicating the functionality, manufacturing date, residual life and serial number. (e) an acknowledged copy of the annual return filed with concerned SPCB for import in the last financial year; (f) Certificate from exporting company for accepting the second hand functional or non-functional electrical and electronic assemblies and/or the spares or part or component or consumables being

(1)	(2)	(3)	(4)
(e)		Spares imported for warranty replacements provided equal number of defective / non-functional parts are exported back within one year of the import.	<p>re-exported at the end of three years.</p> <p>(a) Duly filled up Form 6 - Movement document;</p> <p>(b) If refurbished components being imported as replacement to defective component then undertaking for export of equivalent numbers of defective components;</p> <p>(c) Details of previous import, if there has been any and confirmation regarding their re-export;</p> <p>(d) Certificate from exporting company for accepting the re-export of defective or non-functional spares or part or component or consumables being re-exported;</p> <p>(e) Documents on the declared policy regarding the use of second hand or refurbished spare parts for repair of electrical and electronic assemblies during warranty period.</p>
(f)		Used electrical and electronic assemblies imported by Ministry of Defence, Department of Space and Department of Atomic Energy.	---
(g)		Used electrical and electronic assemblies (not in bulk; quantity less than or equal to three) imported by the individuals for their personal uses.	---
(h)		Used Laptop, Personal Computers, Mobile, Tablet up to 03 number each imported by organisations in a year.	---
(i)		Used electrical and electronic assemblies owned by individuals and imported on transfer of residence.	As per existing guidelines of Custom Authority
(j)		Used electrical and electronic assemblies, spares, imported by airlines for aircraft maintenance and remaining either on board or under the custodianship of the respective airlines warehouses located on the airside of the custom bonded areas.	---

(1)	(2)	(3)	(4)
(j)		Used multifunction print and copying machines (MFDs)*	<p>(a) The country of Origin Certificate along with bill of lading and packaging;</p> <p>(b) The certificate issued by the inspection agency as certified by the exporting country or the inspection and certification agency approved by Directorate General Foreign Trade (DGFT) for functionality, having residual life of not less than five years and serial number;</p> <p>(c) Extended Producer Responsibility-Authorisation under e-waste (Management and Handling) Rules, 2011 as amended from time to time as Producer;</p> <p>(d) The MFDs shall be for printing A 3 size and above;</p> <p>(e) An acknowledged copy of the annual return filed with concerned SPCB for import in the last financial year.</p>
5	B3020	<p>Paper, paperboard and paper product wastes</p> <p>The following materials, provided they are not mixed with hazardous wastes:</p> <p>Waste and scrap of paper or paperboard of:</p> <ul style="list-style-type: none"> - unbleached paper or paperboard or of corrugated paper or paperboard - other paper or paperboard, made mainly of bleached chemical pulp, not coloured in the mass - paper or paperboard made mainly of mechanical pulp (for example newspapers, journals and similar printed matter) - other, including but not limited to <ul style="list-style-type: none"> (1) laminated paperboard (2) unsorted scrap 	<p>(a) Duly filled up Form 6 - Movement document;</p> <p>(b) The import license from Directorate General of Foreign Trade, wherever applicable;</p> <p>(i) Pre-shipment inspection certificate issued by the inspection agency of the exporting country or the inspection and certification agency approved by Directorate General of Foreign Trade;</p> <p>(c) The valid consents to operate under the Air and Water Acts and the authorisation under these rules, for actual users. For traders, only valid authorisation from concerned SPCB is required;</p> <p>(d) The chemical analysis report of the waste being imported;</p> <p>(e) an acknowledged copy of the annual return filed with concerned State Pollution Control Board for import in the last financial year.</p>
6.	B3140	Aircraft Tyres exported to Original Equipment Manufacturers for re-treading and re-imported after re-treading by airlines for aircraft	As per existing guidelines of Custom Authority

(1)	(2)	(3)	(4)
		maintenance and remaining either on board or under the custodianship of the respective airlines warehouses located on the airside of the custom bonded areas	

Note: * The policy for free trade for multifunction print and copying machine to be reviewed once the MFDs are domestically manufactured.

FORM 1
[See rule 6 (1)]

Application required for grant/renewal of authorisation for generation or collection or storage or transport or reception or recycling or reuse or recovery or pre-processing or co-processing or utilisation or treatment or disposal of hazardous and other waste

Part A: General (to be filled by all)

1. (a) Name and address of the unit and location of facility :
 (b) Name of the occupier of the facility or operator of disposal facility with designation, Tel, Fax and e-mail:
 (c) Authorisation required for (Please tick mark appropriate activity or activities:
- | | |
|---------------------|--------------------------|
| (i) Generation | <input type="checkbox"/> |
| (ii) Collection | <input type="checkbox"/> |
| (iii) Storage | <input type="checkbox"/> |
| (iv) Transportation | <input type="checkbox"/> |
| (v) Reception | <input type="checkbox"/> |
| (vi) Reuse | <input type="checkbox"/> |
| (vii) Recycling | <input type="checkbox"/> |
| (viii) Recovery | <input type="checkbox"/> |
| (ix) Pre-processing | <input type="checkbox"/> |
| (x) Co-processing | <input type="checkbox"/> |
| (xi) Utilisation | <input type="checkbox"/> |
| (xii) Treatment | <input type="checkbox"/> |
| (xiii) Disposal | <input type="checkbox"/> |
| (xiv) Incineration | <input type="checkbox"/> |
- (d) In case of renewal of authorisation previous authorisation numbers and dates and provide copies of annual returns of last three years including the compliance reports with respect to the conditions of Prior Environmental Clearance, wherever applicable.
2. (a) Nature and quantity of waste handled per annum (in metric tonne or kilo litre)
 (b) Nature and quantity of waste stored at any time (in metric tonne or kilo litre)
3. (a) Year of commissioning and commencement of production:
 (b) Whether the industry works:
- | | |
|-----------------------|--------------------------|
| (i) 01 Shift | <input type="checkbox"/> |
| (ii) 02 Shifts | <input type="checkbox"/> |
| (iii) Round the clock | <input type="checkbox"/> |
4. Provide copy of the Emergency Response Plan (ERP) which should address procedures for dealing with emergency situations (viz. Spillage or release or fire) as specified in the guidelines of Central Pollution Control Board. Such ERP shall comprise the following, but not limited to:
- Containing and controlling incidents so as to minimise the effects and to limit danger to the persons, environment and property;
 - Implementing the measures necessary to protect persons and the environment;
 - Description of the actions which should be taken to control the conditions at events and to limit their consequences, including a description of the safety equipment and resources available;
 - Arrangements for training staff in the duties which they are expected to perform.

- Arrangements for informing concerned authorities and emergency services; and
- Arrangements for providing assistance with off-site mitigatory action.

5. Provide undertaking or declaration to comply with all provisions including the scope of submitting bank guarantee in the event of spillage, leakage or fire while handling the hazardous and other waste.

Part B: To be filled by hazardous waste generators

1. (a) Products and by-products manufactured (names and product wise quantity per annum)
 - (b) Process description including process flow sheet indicating inputs and outputs (raw materials, chemicals, products, by-products, wastes, emissions, waste water etc.) Please attach separate sheets.
 - (c) Characteristics (waste-wise) and Quantity of waste generation per annum:
 - (d) Mode of management of (c) above:
 - i. Capacity and mode of secured storage within the plant;
 - ii. Utilisation within the plant (provide details);
 - iii. If not utilised within the plant, please provide details of what is done with this waste;
 - iv. Arrangement for transportation to actual users/ TSDF;
 - (e) Details of the environmental safeguards and environmental facilities provided for safe handling of all the wastes at point (c) above;
2. Hazardous and other wastes generated as per these rules from storage of hazardous chemicals as defined under the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989

Part C: To be filled by Treatment, storage and disposal facility operators

1. Provide details of the facility including:
 - (i) Location of site with layout map;
 - (ii) Safe storage of the waste and storage capacity;
 - (iii) The treatment processes and their capacities;
 - (iv) Secured landfills;
 - (v) Incineration, if any;
 - (vi) Leachate collection and treatment system;
 - (vii) Fire fighting systems;
 - (viii) Environmental management plan including monitoring; and
 - (ix) Arrangement for transportation of waste from generators.
2. Provide details of any other activities undertaken at the Treatment, storage and disposal facility site.
3. Attach a copy of prior Environmental Clearance.

Part D: To be filled by recyclers or pre-processors or co-processors or users of hazardous or other wastes

1. Nature and quantity of different wastes received per annum from domestic sources or imported or both:
2. Installed capacity as per registration issued by the District Industries Centre or any other authorised Government agency. Provide copy:
3. Provide details of secured storage of wastes including the storage capacity:
4. Process description including process flow sheet indicating equipment details, inputs and outputs (input wastes, chemicals, products, by-products, waste generated, emissions, waste water, etc.). Attach separate sheets:
5. Provide details of end users of products or by-products:
6. Provide details of pollution control systems such as Effluent Treatment Plant, scrubbers, etc. including mode of disposal of waste:
7. Provide details of occupational health and safety measures:
8. Has the facility been set up as per Central Pollution Control Board guidelines? If yes, provide a report on the compliance with the guidelines:
9. Arrangements for transportation of waste to the facility:

Signature of the Applicant
Designation

Date.....

Place.....

FORM 2
[See rule 6(2)]

FORM FOR GRANT OR RENEWAL OF AUTHORISATION BY STATE POLLUTION CONTROL BOARD TO THE OCCUPIERS, RECYCLERS, REPROCESSORS, REUSERS, USER AND OPERATORS OF DISPOSAL FACILITIES

1. Number of authorisation and date of issue :
2. Reference of application (No. and date) :
3.ofis hereby granted an authorisation based on the enclosed signed inspection report for generation, collection, reception, storage, transport, reuse, recycling, recovery, pre-processing, co-processing, utilisation, treatment, disposal or any other use of hazardous or other wastes or both on the premises situated at.....

Details of Authorisation

Sl. No.	Category of Hazardous Waste as per the Schedules I, II and III of these rules	Authorised mode of disposal or recycling or utilisation or co-processing, etc.	Quantity (ton/annum)

- (1) The authorisation shall be valid for a period of
- (2) The authorisation is subject to the following general and specific conditions (Please specify any conditions that need to be imposed over and above general conditions, if any):

A. General conditions of authorisation:

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
3. The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
4. Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty"
7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.
8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.

9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
10. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation.
11. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
12. An application for the renewal of an authorisation shall be made as laid down under these Rules.
13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
14. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.

B. Specific conditions:

Date:

Signature of Issuing Authority
Designation and Seal

FORM 3

[See rules 6(5), 13(7), 14(6), 16(5) and 20 (1)]

FORMAT FOR MAINTAINING RECORDS OF HAZARDOUS AND OTHER WASTES

1. Name and address of the facility
2. Date of issuance of authorisation and its reference number
3. Description of hazardous and other wastes handled (Generated or Received)

Date	Type of waste with category as per Schedules I, II and III of these rules	Total quantity (Metric Tonnes)	Method of Storage	of Destined to or received from

* Fill up above table separately for indigenous and imported waste.

4. Date wise description of management of hazardous and other wastes including products sent and to whom in case of recyclers or pre-processor or utiliser:
5. Date of environmental monitoring (as per authorisation or guidelines of Central Pollution Control Board):

Signature of occupier

Date.....

Place.....

.....

[See rules 6(5), 13(8), 16(6) and 20 (2)]

FORM FOR FILING ANNUAL RETURNS

[To be submitted to State Pollution Control Board by 30th day of June of every year for the preceding period April to March]

1. Name and address of facility
2. Authorisation No. and Date of issue
3. Name of the authorised person and full address with telephone, fax number and e-mail.
4. Production during the year (product wise), wherever applicable

Part A. To be filled by hazardous waste generators

1. Total quantity of waste generated category wise
2. Quantity dispatched
 - (i) to disposal facility
 - (ii) to recycler or co-processors or pre-processor
 - (iii) others
3. Quantity utilised in-house, if any -
4. Quantity in storage at the end of the year -

Part B. To be filled by Treatment, storage and disposal facility operators

1. Total quantity received -
2. Quantity in stock at the beginning of the year -
3. Quantity treated -
4. Quantity disposed in landfills as such and after treatment -
5. Quantity incinerated (if applicable) -
6. Quantity processed other than specified above -
7. Quantity in storage at the end of the year -

Part C. To be filled by recyclers or co-processors or other users

1. Quantity of waste received during the year -
 - (i) domestic sources
 - (ii) imported (if applicable)
2. Quantity in stock at the beginning of the year -

3. Quantity recycled or co-processed or used -
4. Quantity of products dispatched (wherever applicable) -
5. Quantity of waste generated -
6. Quantity of waste disposed -
7. Quantity re-exported (wherever applicable)-
8. Quantity in storage at the end of the year -

**Signature of the Occupier or
Operator of the disposal facility**

Date.....

Place.....

FORM 5
[See rules 13 (1) and 14 (1)]

**APPLICATION FOR IMPORT OR EXPORT OF HAZARDOUS AND OTHER WASTE
FOR REUSE OR RECYCLING OR RECOVERY OR CO-PROCESSING OR UTILISATION**

TO BE FILLED IN BY APPLICANT

S. No.	Description	Details to be furnished by the importer or exporter
(1)	(2)	(3)
1.	Importer or Exporter (name and address) in India	
	Contact person	
	Tel, fax and e-mail	
	Facility location/address	
	Reason for import or export	
2.	Importer or exporter (name and address) outside of India	
3.	Details of waste to be imported or exported	
	(a) Quantity	
	(b) Basel No.	
	(c) Single/multiple movement	
	(d) Chemical composition of waste (attach details), where applicable	
	(e) Physical characteristics	
	(f) Special handling requirements, if applicable	
4.	For Schedule III A hazardous waste whether Prior Informed Consent has been obtained	
5.	For importer	
	(a) Process details along with environmental safeguard measures (attach separate sheet)	
	(b) Capacity of recycling or co-processing or recovery or utilization	
	outside of India	
	Enclose a copy each of valid authorisation and valid consent to operate from SPCB	
6.	Details of import against the Ministry of Environment, Forest and Climate Change permission in the previous three years	
7.	Port of entry	

9. Undertaking

I hereby solemnly undertake that:

- (i) The information is complete and correct to the best of my knowledge and legally-enforceable written contractual obligations have been entered into and that my applicable insurance or other financial guarantees are or shall be in force covering the transboundary movement.
- (ii) The waste permitted shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.

- (iii) The record of consumption and fate of the imported waste shall be recorded and report sent to the SPCB every quarter.
- (iv) The hazardous or other waste which gets generated in our premises by the use of imported hazardous or other wastes in the form of raw material shall be treated and disposed of as per conditions of authorisation.
- (v) I agree to bear the cost of export and mitigation of damages if any.
- (vi) I am aware that there are significant penalties for submitting a false certificate/ undertaking/ disobedience of the rules and lawful orders including the possibility of fine and imprisonment.
- (vii) The exported wastes shall be taken back, if it is not acceptable to the importer.

Signature of the Applicant
Designation

Date.....

Place.....

FORM - 6

[See rules 13(2), 13 (10) and 14 (5)]

TRANSBOUNDARY MOVEMENT- MOVEMENT DOCUMENT

S.No	Description	Details to be furnished by the exporter or importer
(1)	(2)	(3)
1	Exporter (Name and Address) Contact Person Tele, Fax and email	
2.	Generator(s) of the waste (Name and Address) ¹ Contact Person Tele, Fax and email Site of generation	
3.	Importer or Actual user (Name and Address) Contact person Tele, Fax and email	
4.	Trader (Name and Address) Contact person Tele, Fax and email Details of actual user (Name, Address, Telephone and email) Corresponding to applicant Ref. No., if any Bill of lading (attach copy) Country of import/export General description of waste (a) Quantity (b) Physical characteristics (c) Chemical composition of waste (attach details), where applicable (d) Basel No. (e) UN Shipping name (f) UN Class (g) UN No (h) H Number (i) Y Number (j) ITC (HS) (k) Customs Code (H.S.) (l) Other (specify)	
9.	Type of packages Number	
10.	Special handling requirements including emergency provision in case of accidents	
11.	Movement subject to single/multiple consignment In case of multiple movement- (a) Expected dates of each shipment or expected frequency of the shipments (b) Estimated total quantity and quantities for each individual shipment	

(1)	(2)	(3)
12	Transporter of waste (Name and Address) Contact Person Tele, Fax and email Registration number Means of transport (road, rail, inland waterway, sea, air) ² Date of Transfer Signature of Carrier's representative	
13.	Exporter's declaration for hazardous and other waste: I certify that the information in Sl. Nos. 1 to 12 above are complete and correct to my best knowledge. I also certify that legally-enforceable written contractual obligations have been entered into and are in force covering the transboundary movement regulations/rules. Date:..... Signature:..... Name:.....	
TO BE COMPLETED BY IMPORTER (ACTUAL USER OR TRADER)		
14	Shipment received by importer/ actual user/trader ^{2/3} Quantity received.....Kg/litres Date: Name: Signature:	
15.	Methods of recovery R code* Technology employed (Attached details if necessary)	
16	I certify that nothing other than declared goods covered as per these rules is intended to be imported in the above referred consignment and will be recycled /utilized. Signature: Date:	
17	SPECIFIC CONDITIONS ON CONSENTING TO THE MOVEMENT if applicable.	(attach details)
Notes:- (1) Attach list, if more than one; (2) Select appropriate option; (3) Immediately contact competent authority in case of any emergency; (4) if more than one transporter carriers, attach information as required in SL. No. 12.		

List of abbreviations used in the Movement Document

Recovery Operations (*)

- R1 Use as a fuel (other than in direct incineration) or other means to generate energy.
- R2 Solvent reclamation/regeneration.
- R3 Recycling/reclamation of organic substances which are not used as solvents.
- R4 Recycling/reclamation of metals and metal compounds.
- R5 Recycling/reclamation of other inorganic materials.
- R6 Regeneration of acids or bases.
- R7 Recovery of components used for pollution abatement.
- R8 Recovery of components from catalysts.
- R9 Use of waste for other reuses of previously used oil.
- R10 Land treatment resulting in benefit to agriculture or ecological improvement.
- R11 Uses of waste materials obtained from any of the operations numbered R 1 to R 10.

18/63/277

Designation:

Place:

FORM 7
[See rule 13 (2) (c)]APPLICATION FORM FOR ONE TIME AUTHORISATION OF TRADERS FOR PART-D OF
SCHEDULE III, WASTE
[To be submitted by trader to the State Pollution Control Board]

1.	Name and address of trader with Telephone, Fax Number and e-mail	:	
2.	TIN/VAT Number/Import/ Export Code	:	
3.	Description and quantity of other waste to be imported	:	
4.	Details of storage, if any	:	
5.	Names and address of authorised actual user (s)	:	

Signature of the authorised person

Date:

Place:

FORM 8
[See rules 17 (1) and 18 (2)]

LABELLING OF CONTAINERS OF HAZARDOUS AND OTHER WASTE

Handle with care	
Waste category and characteristics as per Part C of Schedules II and III of these rules	Incompatible wastes and substances
Total quantity	Date of storage
Physical State of the waste (Solid/Semi-solid/Liquid):	
Sender's name and address	Receiver's name and address
Phone.....	Phone.....
E-mail.....	E-mail.....
Tel. and Fax No.....	Tel. and Fax No.....
Contact person.....	Contact person.....
In case of emergency please Contact	

Note:

1. Background colour of label - fluorescent yellow.
2. The word, 'HAZARDOUS WASTES' and 'HANDLE WITH CARE' to be prominent and written in red, in Hindi, English and in vernacular language.
3. The word 'OTHER WASTES' to be written prominently in orange, in Hindi, English and in vernacular language.
4. Label should be of non-washable material and weather proof.

FORM 9
[See rule 18 (2)]

TRANSPORT EMERGENCY (TREM) CARD

[To be carried by the transporter during transportation of hazardous and other wastes, provided by the sender of waste]

1. Characteristics of hazardous and other wastes:

S. No.	Type of waste	Physical properties/	Chemical constituents	Exposure hazards	First Aid requirements

2. Procedure to be followed in case of fire
3. Procedure to be followed in case of spillage/accident/explosion
4. For expert services, please contact
 - (i) Name and Address
 - (ii) Telephone No.

TRANSPORT EMERGENCY (TREM) CARD

[To be carried by the transporter during transportation of hazardous and other wastes, provided by the sender of waste]

1. Characteristics of hazardous and other wastes

S. No.	Type of waste	Physical properties/	Chemical constituents	Exposure hazards	First Aid requirements

2. Procedure to be followed in case of fire
3. Procedure to be followed in case of spillage/accident/explosion
4. For expert services, please contact
 - (i) Name and Address
 - (ii) Telephone No.

(Name, contact number and signature of sender)

Date.....

Place.....

FORM 10
(See rule 19 (1))

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1.	Sender's name and mailing address (including Phone No. and e-mail)	
2.	Sender's authorisation No.	
3.	Manifest Document No.	
4.	Transporter's name and address: (including Phone No. and e-mail)	
5.	Type of vehicle	(Truck/Tanker/Special Vehicle)
6.	Transporter's registration No.	
7.	Vehicle registration No.	
8.	Receiver's name and mailing address (including Phone No. and e-mail)	
9.	Receiver's authorisation No.	
10.	Waste description	
11.	Total quantity No. of Containersm ³ or MTNos.
12.	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13.	Special handling instructions and additional information	
14.	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp: Signature: Month Day Year	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
15.	Transporter acknowledgement of receipt of Wastes	
	Name and stamp: Signature: Month Day Year	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
16.	Receiver's certification for receipt of hazardous and other waste	
	Name and stamp: Signature: Month Day Year	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

FORM 11
[See rule 22]

FORMAT FOR REPORTING ACCIDENT

[To be submitted by the facility or sender or receiver or transporter to the State Pollution Control Board]

1. The date and time of the accident
2. Sequence of events leading to accident
3. Details of hazardous and other wastes involved in accident
4. The date for assessing the effects of the accident on health or the environment
5. The emergency measures taken
6. The steps taken to alleviate the effects of accidents
7. The steps take to prevent the recurrence of such an accident

Date:

Signature:

Place:

Designation:

FORM 12
[See rule 24 (1)]APPLICATION FOR FILING APPEAL
AGAINST THE ORDER PASSED BY STATE POLLUTION CONTROL BOARD

1. Name and address of the person making the appeal
 2. Number, date of order and address of the authority which passed the order, against which appeal is being made
 3. Ground on which the appeal is being made
 4. Relief sought for
 5. List of enclosures other than the order referred in point 2 against which the appeal is being filed.
- (certified copy of the order be attached)

Signature.....

Name and address.....

Date:

-----x-----x-----

[23-16/2009- HSMD]

(Biswanath Sinha)
Joint Secretary to Government of India



HARYANA STATE POLLUTION CONTROL BOARD

C-11, SECTOR-6, PANCHKULA
Ph-2577870-73 E-mail: hspcbho@gmail.com

Annexure-II

18/70/2016

Office Order

Whereas the Ministry of Environment, Forest & Climate Change, Govt. of India has notified the Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016 on 04.04.2016 in supersession of Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008.

Whereas as per Rule 9 of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016, the utilization of hazardous and other wastes as a resource or after pre-processing either for co-processing or for any other use, including within the premises of the generator (if it is not part of process), shall be carried out only after obtaining authorization from the State Pollution Control Board in respect of waste for which standard operating procedures or guidelines has been provided by the Central Pollution Control Board and where standard operating procedures or guidelines are not available for specific utilization, the approval has to be sought from Central Pollution Control Board;

Whereas in view of above, the revised procedure is required to be laid down for processing the applications for authorization for actual users of Hazardous and other Waste including utilization except for the recycler of hazardous waste listed in schedule-IV, according to the provisions of these Rules.

Therefore, it is hereby ordered that the following procedure will be followed for processing the applications for the grant/renewal of authorization for actual users of Hazardous and other Waste including for utilization of Hazardous and other Waste for which standard operating procedures (SOPs)/guidelines issued by CPCB (except for the recycler of hazardous waste listed in schedule-IV) under the Hazardous & Other Wastes (M&TM) Rules, 2016-

1. The applicant actual users of Hazardous and other Waste including for utilization of Hazardous and other Waste for which standard operating procedures (SOPs)/guidelines issued by CPCB (except for the recycler of hazardous waste listed in schedule-IV), will submit Form-1 prescribed in the Rules accompanied with the documents as given in the checklist at **Annexure-I** in duplicate to the concerned Regional Officer.
2. After the receipt of the complete case, inspection shall be carried out by a team of officers of the Regional Office concerned consisting of the Regional Officer and concerned AEE/ Scientist B of the Region to verify whether the applicant is utilizing environmentally sound technologies and possesses adequate technical capabilities, requisite facilities and equipments as per guidelines, standard operating procedures issued by CPCB.
3. The Regional Officer will submit the verification report in the prescribed format given at **Annexure-II** alongwith one copy of Form-1 and all original documents submitted by the applicant, within 21 days to the Head Office giving definite recommendations for refusal or grant of authorization as the case may be, on the merits of the case.
4. The authorization shall be issued in the prescribed Form-2 alongwith the prescribed proforma as per the pattern of CPCB to maintain the records of Hazardous and other Waste processed by the applicant for processing for reuse/recycling/recovery/preprocessing/utilization including co-processing and copy of field inspection report signed by the concerned officers of the Board indicating the adequacy of facilities for processing the Hazardous and other Waste as per Rule 9 of will be refused after following the due procedure as the case may be, based upon the recommendations of Regional Officer with the approval of the Competent Authority.
5. Till the online system for processing the applications for authorization under Hazardous & Other Waste (Management & Transboundary Movement) Rules, 2016 with new prescribed forms, is developed and implemented the IT Branch, as already asked vide letter no. HSPCB/2016/09-87 dated 08.06.2016, the application of actual users of Hazardous and other Waste (except for the recycler of hazardous waste listed in schedule-IV), shall be submitted in hard copy and will be decided at the level of Branch in Head Office dealing with the subject matter, with the approval of the Chairman as per above said prescribed procedure. As and when the online system for submission and processing the applications for authorization under Hazardous & Other Waste (Management & Transboundary Movement) Rules, 2016 is implemented with the new prescribed Forms, then all such applications for authorization under the above said Rules including for actual users of hazardous & other waste, shall be processed through OCMMS and decided by concerned Branch Incharges in Head Office with the approval of Chairman or as per the powers delegated by the Board from time to time.
6. The status of all such units authorized by the Board for actual users of Hazardous and other Wastes will be displayed on the website of the Board under the heading "Authorized Actual users of Hazardous and other Wastes of Haryana (except for the recycler of hazardous waste listed in schedule-IV)" immediately after authorization is issued by the Board.

The above orders shall come in to force with immediate effect.

Dated Panchkula, the
16th August, 2016

Endst. No. HSPCB/HW/2016/1126-46

S.N. Roy, IAS
Chairman

Dated: 18/8/16

A copy of the above is forwarded to the following for information and necessary action:

1. All Branch Incharges in Head Office.
2. All Regional Officers in the field.
3. PS to Chairman/ PA to Member Secretary for the information of the officers.
4. Nodal Officer (IT) for uploading the orders on the website of the Board.

Sr. Scientist (HQ)
For Chairman

Check List of documents for obtaining authorization for actual users of Hazardous and other Waste (except listed in Schedule-IV)

A. New Cases

1. Duly filled up application in form - 1
2. Copy of Consent to Establish (CTE) granted by the Board.
3. Copy of valid Consent to Operate (CTO) under Water Act, 1974 and Air Act, 1981 granted by the Board.
4. Occupier/Authorized person Certificate issued by the Management of the applicant industry.
5. Registration issued by the District Industries Centre showing installed capacity of unit.
6. Copy of emergency response plan regarding procedures for dealing with emergency situations (viz. spillage or release or fire) as specified in the guidelines of CPCB (refer column no. 4 of part A of application form).
7. Undertaking or declaration to comply with all provisions including the scope of submitting bank guarantee in the event of spillage, leakage or fire while handling the hazardous and other waste (refer column no. 5 of part A of application form).
8. Plan showing the details of secured storage of Hazardous Waste wastes with storage capacity including mode of disposal.
9. Process flow sheet indicating equipment details, inputs and outputs (raw materials, chemicals, products, by-products, wastes, emissions, waste water etc.) - (refer column no. 1 (b) of part B of application form)
10. Membership of CHWTSDF.
11. Report on the compliance with the guidelines/ standard operating procedures for utilization of Hazardous Waste define by CPCB as amended from time to time (only for utilizers, users).

B. Renewal Cases

1. Duly filled up application in form - 1.
2. Copy of valid Consent to Operate (CTO) under Water Act, 1974 and Air Act, 1981 granted by the Board.
3. Occupier/Authorized person Certificate issued by the Management of the applicant industry.
4. Undertaking or declaration to comply with all provisions including the scope of submitting bank guarantee in the event of spillage, leakage or fire while handling the hazardous and other waste (refer column no. 5 of part A of application form).
5. Self-certified compliance report in respect of the conditions specified in the authorization granted earlier.
6. Copies of annual returns of last 3 years.

18/72/286

7. Copy of agreement made with the operator of CHWTSDF and /or with the actual user of the Hazardous Waste as the case may be.
8. Report on the compliance with the guidelines/ standard operating procedures for utilization of Hazardous Waste define by CPCB as amended from time to time (only for utilizers /users).

Note: The application and documents to be submitted in duplicate.

Verification report for the application of authorization for actual users of Hazardous or other Wastes (except listed in Schedule-IV) under Hazardous & Other Waste (M&TM) Rules, 2016 regarding
M/s. _____

(To be submitted by Regional Officer)

1. Name of the unit :
2. Location of the unit :
3. Date of Receipt of application :
4. Capital investment cost of the unit :
5. :
6. Date of issuance of CTE with validity date :
7. Date of issue of CTO with validity date :
8. Date of completion of the project :
9. Date of inspection :
10. Name & designation of the officer inspected the unit :
11. Details of source of Hazardous and other Waste to be procured :
12. Quantity of Hazardous type and category with other Waste to be utilized/ used/ recyclers :
13. Installed capacity of unit for utilization/ use of the hazardous and other waste as per registration issued by District Industries Centre :
14. Mode of final disposal with only of Hazardous Waste :
15. Status regarding membership/agreement with CHWTSDF :
16. Status of ETP/APCM installed (Give details of each component) with structural adequacy. :
17. Status regarding storage facility at site for storage of raw material (hazardous and other waste to be utilized/ used/ recyclers) :
18. Status of Energy meter installed on PCE :
19. Quantity of effluent & its final mode of disposal : Quantity : Mode of Disposal
Domestic Effluent
Trade Effluent
20. Height of stacks attached with process from ground level (in meters) :
21. Stack height of DG sets from ground level (in meters) :
22. Give details regarding compliance of the conditions specified in the authorization/ earlier granted (for renewal cases) :
23. Comments & details on compliance of guidelines followed by the unit for installation of Environmental sound technology regarding utilized/ used/ recyclers of Hazardous and other Waste prepared by CPCB or as amended from time to time. :
24. Whether complying the standard operating procedures or guidelines for utilize of Hazardous and other Wastes issued by the CPCB only for utilized/ used/ recyclers) :
25. Whether standards operating procedures or guidelines of CPCB provisions and operating or not give complete details. :
26. Detail of arrangements for transportation of waste to the facility. :
27. **Recommendations**

a. (In case of grant)

Certified that the applicant is utilizing environmentally sound technologies and possesses adequate technical capabilities, requisite facilities and equipment to Recyclers/ use/ utilization of hazardous and other waste.

Therefore authorization to the applicant is recommended.

b. (In case of refusal)

In case the applicant is not complying the above mentioned stipulations then the Regional Officer will issue show cause notice for refusal of authorization to the unit before sending the case for rejection and will submit final recommendations thereafter on the basis of reply submitted by the applicant.

Signature of Field Officer
Name & Designation

Signature of Regional Officer
Name

**Check List of documents for obtaining Authorization for
CHWTSDF**

A. New Cases

1. Duly filled up application in form - 1.
2. Copy of Consent to Establish (CTE) granted by the Board.
3. Copy of Consent to Operate (CTO) granted by the Board.
4. Occupier Certificate issued by the Management of the applicant industry.
5. Copy of emergency response plan regarding procedures for dealing with emergency situations (viz. spillage or release or fire) as specified in the guidelines of CPCB (refer column no. 4 of part A of application form).
6. Undertaking or declaration to comply with all provisions including the scope of submitting bank guarantee in the event of spillage, leakage or fire while handling the hazardous and other waste (refer column no. 5 of part A of application form).
7. Plan showing the details of secured storage of Hazardous and other wastes with the storage capacity including mode of disposal.
8. Process flow sheet
9. Copy of prior Environmental Clearance where ever applicable (refer column no. 3 of part C of application form).
10. Design scheme of pollution control systems such as Effluent Treatment Plant, scrubbers, etc. with Environment Management Plan.
11. Report on the compliance with the Guidelines regarding development and operation of TSDF issued by Central Pollution Control Board as amended from time to time.
12. Layout/location map of the site.

B. Renewal Cases

1. Duly filled up application in form - 1
2. Copy of Consent to Operate (CTO) granted by the Board.
3. Occupier Certificate issued by the Management of the applicant industry.
4. Undertaking or declaration to comply with all provisions including the scope of submitting bank guarantee in the event of spillage, leakage or fire while handling the hazardous and other wastes (refer column no. 5 of part A of application form).
5. Self-certified compliance report in respect of effluent, emission standards supported with latest analysis report /AAQ and Ground Water Monitoring reports and the conditions specified in the authorization earlier granted and Environmental Clearance where ever applicable alongwith copies of annual returns of last 3 years.
6. Report on the compliance with the Guidelines regarding development and operation of TSDF issued by Central Pollution Control Board as amended from time to time.

Note: The application and documents to be submitted in duplicate.

**Check List of documents for obtaining authorization by
Hazardous Waste Generators**

A. New Cases

1. Duly filled up application in form - 1.
2. Copy of Consent to Establish (CTE) granted by the Board.
3. Copy of valid Consent to Operate (CTO) under Water Act, 1974 and Air Act, 1981 granted by the Board.
4. Occupier/Authorized person Certificate issued by the Management of the applicant industry.
5. Copy of emergency response plan regarding procedures for dealing with emergency situations (viz. spillage or release or fire) as specified in the guidelines of CPCB (refer column no. 4 of part A of application form).
6. Undertaking or declaration to comply with all provisions including the scope of submitting bank guarantee in the event of spillage, leakage or fire while handling the hazardous and other waste (refer column no. 5 of part A of application form).
7. Plan showing the details of secured storage of Hazardous Waste wastes with storage capacity including mode of disposal.
8. Process flow sheet indicating equipment details, inputs and outputs (raw materials, chemicals, products, by-products, wastes, emissions, waste water etc.) - (refer column no. 1 (b) of part B of application form).
9. Membership of CHWTSDF.

B. Renewal Cases

1. Duly filled up application in form - 1.
2. Copy of valid Consent to Operate (CTO) under Water Act, 1974 and Air Act, 1981 granted by the Board.
3. Occupier/Authorized person Certificate issued by the Management of the applicant industry.
4. Undertaking or declaration to comply with all provisions including the scope of submitting bank guarantee in the event of spillage, leakage or fire while handling the hazardous and other waste (refer column no. 5 of part A of application form).
5. Self-certified compliance report in respect of the conditions specified in the authorization granted earlier.
6. Copies of annual returns of last 3 years.
7. Copy of agreement made with the operator of CHWTSDF and /or with the actual user of the Hazardous Waste as the case may be.

Note: The application and documents to be submitted in duplicate.

Agenda Item No. 176.19 (5)

Procedure for obtaining the authorization by the trader units desirous of import of other wastes (* *) as listed in Part-D of Schedule-III of Hazardous & Other Waste (M&TM) Rules, 2016, on behalf of actual users

The Board had laid down the procedure (**Annexure-I**) for grant of one time registration to the trader units desirous of import of metal scrap, paper waste and 'Other Waste' as listed in Part D of Schedule-II of Hazardous Waste (Management, Handling & Trans-boundary Movement) Rules, 2008.

The ministry of Environment, Forest & Climate Change, Govt. of India has notified Hazardous & Other Waste (Management & Trans-boundary Movement) Rules, 2016 (**Annexure-II**) on 4th April, 2016 in supersession of the Hazardous Waste (Management Handling & Trans-boundary Movement) Rules, 2008

Every trader desirous of import of other wastes (* *) as listed in Part-D of Schedule-III of Hazardous & Other Waste (M&TM) Rules, 2016, on behalf of actual users, is required to obtain the authorization from the State Pollution Control Board under section 13 of the above said Rules

As per provisions of Rule 13 of Hazardous & Other Waste (Management & Trans-boundary Movement) Rules, 2016, the Board is empowered to grant authorization to traders for import of other wastes (*) as listed in Part-D of Schedule-III of said Rules, on behalf of actual users.

Accordingly a procedure has been laid down for obtaining the authorization by the trader units for import of other wastes (* *) as listed in Part-D of Schedule-III of Hazardous & Other Waste (M&TM) Rules, 2016, on behalf of actual users which was circulated vide letter no. HSPCB, HW/Gen-III/2016/159-177 dated 14.06.2016 (**Annexure-III**).

The matter is placed before the Board for consideration and Ex-Post Facto approval of the above procedure and for delegation of powers for grant of one time authorization to the traders for import of 'other waste' on behalf of actual users of 'other waste'.

19/2/201

Notice for the trader units desirous of import of metal scrap, paper waste & other wastes as listed in Schedule-III (Part-D) of Hazardous Waste (MH&TM) Rules, 2008 as amended till date, on behalf of actual users.

Every trader, desirous to import metal scrap, paper waste & other wastes as listed in Schedule-III (Part-D) of Hazardous Waste (MH&TM) Rules, 2008 as amended till date, on behalf of actual users on such units, is required to make an application in Form-15, to State Pollution Control Board, for their registration on one time basis under the said rule.

At present the trading units desirous of import of metal scrap, paper waste & other wastes as listed in Schedule-III (Part-D) of Hazardous Waste (MH&TM) Rules, 2008 as amended till date are submitting their applications for registration through Regional office of HSPCB. This practice causes unnecessary delay in processing the application and deciding the same.

As no site verification is required for registration of trading units desirous to import metal scrap, paper waste & other wastes as listed in Schedule-III (Part-D) of Hazardous Waste (MH&TM) Rules, 2008 as amended till date, hence, the application for registration alongwith required documents are to be submitted by such units directly in the head office of Haryana State Pollution Control Board at C-11, Sec-6, Panchkula.

In view of above, for timely disposal of such applications, it has been decided that in future, all the applications for registration of traders, desirous of import of metal scrap, paper waste & other wastes as listed in Schedule-III (Part-D) of Hazardous Waste (MH&TM) Rules, 2008 as amended till date, will be submitted by the applicants, directly in head office at the above address. The Regional offices will not receive such applications for registration of the traders, desirous to import of waste, as mentioned above under said rules, in their office in future.

It is for information of all concerned.

P.K. Gupta, IAS
Chairman

FORM 16

Form for registration of traders desirous of import of metal waste, paper waste & other waste as listed in part (D) schedule III of Hazardous Waste (MH&TM) Rules, 2008 as amended thereon, on behalf of actual users.

To be submitted by traders to the State Pollution Control Boards/Pollution Control Committees.

1	Name and Address of the Trader with Telephone and Fax Numbers (With proof)		
2	i) TIN/VAT Number. ii) Import Export Code		
3	Description of the waste to be imported	Name of Waste	Basel No. Quantity per annum
4	Details of storage, if any	Address/ Location of storage site i) On lease/self owned ii) Area and storage capacity	

Signature of the authorized person.]

Date: _____
Date: _____

Documents to be enclosed:

1. Proof of Name and address of the trader or
2. Photocopy of valid trade license of godown/ address issued by the local authority if any.
3. Copy of registration certificate of TIN/VAT Number.
4. Photocopy of the certificate of the Importer-Exporter Code issued by the Ministry of commerce & Industry govt. of India.
5. Proof of authorized signatory/ power of attorney.
6. An undertaking to the effect that "All imports of metal waste, paper waste & other waste as listed in part D of schedule - III of Hazardous Waste (MH&TM) Rules, 2008 will only be undertaken on behalf of actual users of the waste having valid consent to establish / operate under Water Act, 1974 & Air Act, 1981 and authorization and registration for re-processing of hazardous waste under Hazardous Waste (MH&TM) Rules, 2008, from the State Pollution Control Board/ Pollution Control Committee and also the quarterly returns for import of metal waste, paper waste & other waste will be submitted to the Haryana State Pollution Control Board".

Note: As the paper should be signed

GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

NOTIFICATION

New Delhi, the 04th April, 2016

G.S.R No. 395 (E). - Whereas the draft rules, namely the Hazardous And Other Wastes (Management and Transboundary Movement) Rules, 2015, were published by the Government of India in the Ministry of Environment, Forest and Climate Change vide number G.S.R. 582.E., dated the 24th July, 2015 in the Gazette of India, Extraordinary Part II, section 3, sub-section (i) inviting objections and suggestions from all persons likely to be affected thereby, before the expiry of the period of sixty days from the date on which copies of the Gazette containing the said notification were made available to the public;

AND WHEREAS the copies of the said Gazette containing the said notification were made available to the public on the 24th day of July, 2015,

AND WHEREAS the objections and suggestions received within the specified period from the public in respect of the said draft rules have been duly considered by the Central Government,

NOW, THEREFORE, in exercise of the powers conferred by sections 6, 8 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), and in supersession of the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008, except as respects things done or omitted to be done before such supersession, the Central Government hereby makes the following rules, namely:-

CHAPTER I

PRELIMINARY

1. **Short title and commencement.** - (1) These rules may be called the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016
- (2) They shall come into force on the date of their publication in the Official Gazette.
2. **Application.** - These rules shall apply to the management of hazardous and other wastes as specified in the Schedules to these rules but shall not apply to -
 - (a) waste-water and exhaust gases as covered under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 (6 of 1974) and the Air (Prevention and Control of Pollution) Act, 1981 (14 of 1981) and the rules made thereunder and as amended from time to time;
 - (b) wastes arising out of the operation from ships beyond five kilometres of the relevant baseline as covered under the provisions of the Merchant Shipping Act, 1958 (44 of 1958) and the rules made thereunder and as amended from time to time.

- (c) radio-active wastes as covered under the provisions of the Atomic Energy Act, 1962 (33 of 1962) and the rules made thereunder and as amended from time to time;
- (d) bio-medical wastes covered under the Bio-Medical Wastes (Management and Handling) Rules, 1998 made under the Act and as amended from time to time; and
- (e) wastes covered under the Municipal Solid Wastes (Management and Handling) Rules, 2000 made under the Act and as amended from time to time.

3. **Definitions.** - (1) In these rules, unless the context otherwise requires,-

1. "Act" means the Environment (Protection) Act, 1986 (29 of 1986);
2. "actual user" means an occupier who procures and processes hazardous and other waste for reuse, recycling, recovery, pre-processing, utilisation including co-processing;
3. "authorisation" means permission for generation, handling, collection, reception, treatment, transport, storage, reuse, recycling, recovery, pre-processing, utilisation including co-processing and disposal of hazardous wastes granted under sub-rule (2) of rule 6;
4. "Basel Convention" means the United Nations Environment Programme Convention on the Control of Transboundary Movement of Hazardous Wastes and their Disposal;
5. "captive treatment, storage and disposal facility" means a facility developed within the premises of an occupier for treatment, storage and disposal of wastes generated during manufacture, processing, treatment, package, storage, transportation, use, collection, destruction, conversion, offering for sale, transfer or the like of hazardous and other wastes;
6. "Central Pollution Control Board" means the Central Pollution Control Board constituted under sub-section (1) of section 3 of the Water (Prevention and Control of Pollution) Act, 1974 (6 of 1974);
7. "common treatment, storage and disposal facility" means a common facility identified and established individually or jointly or severally by the State Government, occupier, operator of a facility or any association of occupiers that shall be used as common facility by multiple occupiers or actual users for treatment, storage and disposal of the hazardous and other wastes;
8. "co-processing" means the use of waste materials in manufacturing processes for the purpose of energy or resource recovery or both and resultant reduction in the use of conventional fuels or raw materials or both through substitution;
9. "critical care medical equipment" means life saving equipment and includes such equipment as specified by the Ministry of Health and Family Welfare from time to time;
10. "disposal" means any operation which does not lead to reuse, recycling, recovery, utilisation including co-processing and includes physico-chemical treatment, biological treatment, incineration and disposal in secured landfill.

11. "export", with its grammatical variations and cognate expressions, means taking out of India to a place outside India.
12. "exporter" means any person or occupier under the jurisdiction of the exporting country who exports hazardous or other wastes, including the country which exports hazardous or other waste.
13. "environmentally sound management of hazardous and other wastes" means taking all steps required to ensure that the hazardous and other wastes are managed in a manner which shall protect health and the environment against the adverse effects which may result from such waste;
14. "environmentally sound technologies" means any technology approved by the Central Government from time to time.
15. "facility" means any establishment wherein the processes incidental to the generation, handling, collection, reception, treatment, storage, reuse, recycling, recovery, pre-processing, co-processing, utilisation and disposal of hazardous and, or, other wastes are carried out;
16. "Form" means a form appended to these rules;
17. "hazardous waste" means any waste which by reason of characteristics such as physical, chemical, biological, reactive, toxic, flammable, explosive or corrosive causes danger or is likely to cause danger to health or environment, whether alone or in contact with other wastes or substances, and shall include -
- (i) waste specified under column (3) of Schedule I;
 - (ii) waste having equal to or more than the concentration limits specified for the constituents in class A and class B of Schedule II or any of the characteristics as specified in class C of Schedule II; and
 - (iii) wastes specified in Part A of Schedule III in respect of import or export of such wastes or the wastes not specified in Part A but exhibit hazardous characteristics specified in Part C of Schedule III;
18. "import", with its grammatical variations and cognate expressions, means bringing into India from a place outside India;
19. "importer" mean any person or occupier who imports hazardous or other waste;
20. "manifest" means transporting document prepared and signed by the sender authorised in accordance with the provisions of these rules;
21. "occupier" in relation to any factory or premises, means a person who has control over the affairs of the factory or the premises and includes in relation to any hazardous and other wastes, the person in possession of the hazardous or other waste.
22. "operator of disposal facility" means a person who owns or operates a facility for collection, reception, treatment, storage and disposal of hazardous and other wastes;
23. "other wastes" means wastes specified in Part B and Part D of Schedule III for import or export and includes all such waste generated indigenously within the country;

24. "pre-processing" means the treatment of waste to make it suitable for co-processing or recycling or for any further processing.
25. "recycling" means reclamation and processing of hazardous or other wastes in an environmentally sound manner for the originally intended purpose or for other purposes.
26. "reuse" means use of hazardous or other waste for the purpose of its original use or other use.
27. "recovery" means any operation or activity wherein specific materials are recovered.
28. "Schedule" means a Schedule appended to these rules.
29. "State Government" in relation to a Union territory means, the Administrator thereof appointed under article 239 of the Constitution;
30. "State Pollution Control Board" means the State Pollution Control Board constituted under section 4 of the Water (Prevention and Control of Pollution) Act, 1974 (6 of 1974) and includes, in relation to a Union territory, the Pollution Control Committee.
31. "storage" means storing any hazardous or other waste for a temporary period, at the end of which such waste is processed or disposed of;
32. "transboundary movement" means any movement of hazardous or other wastes from an area under the jurisdiction of one country to or through an area under the jurisdiction of another country or to or through an area not under the jurisdiction of any country, provided that at least two countries are involved in the movement.
33. "transport" means off-site movement of hazardous or other wastes by air, rail, road or water.
34. "transporter" means a person engaged in the off-site transportation of hazardous or other waste by air, rail, road or water.
35. "treatment" means a method, technique or process, designed to modify the physical, chemical or biological characteristics or composition of any hazardous or other waste so as to reduce its potential to cause harm;
36. "used oil" means any oil-
- (i) derived from crude oil or mixtures containing synthetic oil including spent oil, used engine oil, gear oil, hydraulic oil, turbine oil, compressor oil, industrial gear oil, heat transfer oil, transformer oil and their tank bottom sludges; and
 - (ii) suitable for reprocessing, if it meets the specification laid down in Part A of Schedule V but does not include waste oil;
37. "utilisation" means use of hazardous or other waste as a resource;

38. "waste" means materials that are not products or by-products, for which the generator has no further use for the purposes of production, transformation or consumption.

Explanation.- for the purposes of this clause,

- (i) waste includes the materials that may be generated during, the extraction of raw materials, the processing of raw materials into intermediates and final products, the consumption of final products, and through other human activities and excludes residuals recycled or reused at the place of generation; and
- (ii) by-product means a material that is not intended to be produced but gets produced in the production process of intended product and is used as such,
39. "waste oil" means any oil which includes spills of crude oil, emulsions, tank bottom sludge and slop oil generated from petroleum refineries, installations or ships and can be used as fuel in furnaces for energy recovery, if it meets the specifications laid down in Part-B of Schedule V either as such or after reprocessing.

(2) Words and expressions used in these rules and not defined but defined in the Act shall have the meanings respectively assigned to them in the Act.

CHAPTER II

PROCEDURE FOR MANAGEMENT OF HAZARDOUS AND OTHER WASTES

4. Responsibilities of the occupier for management of hazardous and other wastes.-

(1) For the management of hazardous and other wastes, an occupier shall follow the following steps, namely:-

- (a) prevention;
- (b) minimization;
- (c) reuse;
- (d) recycling;
- (e) recovery, utilisation including co-processing;
- (f) safe disposal.

(2) The occupier shall be responsible for safe and environmentally sound management of hazardous and other wastes.

(3) The hazardous and other wastes generated in the establishment of an occupier shall be sent or sold to an authorised actual user or shall be disposed of in an authorised disposal facility

(4) The hazardous and other wastes shall be transported from an occupier's establishment to an authorised actual user or to an authorised disposal facility in accordance with the provisions of these rules.

(5) The occupier who intends to get its hazardous and other wastes treated and disposed of by the operator of a treatment, storage and disposal facility shall give to the operator of that facility, such specific information as may be needed for safe storage and disposal

(6) The occupier shall take all the steps while managing hazardous and other wastes to-

- (a) contain contaminants and prevent accidents and limit their consequences on human beings and the environment; and
- (b) provide persons working in the site with appropriate training, equipment and the information necessary to ensure their safety.

5. **Responsibilities of State Government for environmentally sound management of hazardous and other wastes.** - (1) Department of Industry in the State or any other government agency authorised in this regard by the State Government, to ensure earmarking or allocation of industrial space or shed for recycling, pre-processing and other utilisation of hazardous or other waste in the existing and upcoming industrial park, estate and industrial clusters;

(2) Department of Labour in the State or any other government agency authorised in this regard by the State Government shall,-

- (a) ensure recognition and registration of workers involved in recycling, pre-processing and other utilisation activities;
- (b) assist formation of groups of such workers to facilitate setting up such facilities;
- (c) undertake industrial skill development activities for the workers involved in recycling, pre-processing and other utilisation;
- (d) undertake annual monitoring and to ensure safety and health of workers involved in recycling, pre-processing and other utilisation.

(3) Every State Government may prepare integrated plan for effective implementation of these provisions and to submit annual report to the Ministry of Environment, Forest and Climate Change, in the Central Government.

6. **Grant of authorisation for managing hazardous and other wastes.**- (1) Every occupier of the facility who is engaged in handling, generation, collection, storage, packaging, transportation, use, treatment, processing, recycling, recovery, pre-processing, co-processing, utilisation, offering for sale, transfer or disposal of the hazardous and other wastes shall be required to make an application in Form 1 to the State Pollution Control Board and obtain an authorisation from the State Pollution Control Board within a period of sixty days from the date of publication of these rules. Such application for authorisation shall be accompanied with a copy each of the following documents, namely:-

- (a) consent to establish granted by the State Pollution Control Board under the Water (Prevention and Control of Pollution) Act, 1974 (25 of 1974) and the Air (Prevention and Control of Pollution) Act, 1981 (21 of 1981);
- (b) Consent to operate granted by the State Pollution Control Board under the Water (Prevention and Control of Pollution) Act, 1974 (25 of 1974) and/or Air (Prevention and Control of Pollution) Act, 1981, (21 of 1981);
- (c) in case of renewal of authorisation, a self-certified compliance report in respect of effluent, emission standards and the conditions specified in the authorisation for hazardous and other wastes;

Provided that an application for renewal of authorisation may be made three months before the expiry of such authorisation:

Provided further that-

- (i) any person authorised under the provisions of the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008, prior to the date of commencement

of these rules, shall not be required to make an application for authorisation till the period of expiry of such authorisation;

- (ii) any person engaged in recycling or reprocessing of the hazardous waste specified in Schedule IV and having registration under the provisions of the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008, shall not be required to make an application for authorisation till the period of expiry of such registration.

(2) On receipt of an application complete in all respects for the authorisation, the State Pollution Control Board may, after such inquiry as it considers necessary, and on being satisfied that the applicant possesses appropriate facilities for collection, storage, packaging, transportation, treatment, processing, use, destruction, recycling, recovery, pre-processing, co-processing, utilisation, offering for sale, transfer or disposal of the hazardous and other waste, as the case may be, and after ensuring technical capabilities and equipment complying with the standard operating procedure or other guidelines specified by the Central Pollution Control Board from time to time and through site inspection, grant within a period of one hundred and twenty days, an authorisation in Form 2 to the applicant, which shall be valid for a period of five years subject to such conditions as may be laid down therein. For commonly recyclable hazardous waste as given in Schedule IV, the guidelines already prepared by the Central Pollution Control Board shall be followed.

Provided that in the case of an application for renewal of authorisation, the State Pollution Control Board may, before granting such authorisation, satisfy itself that there has been no violation of the conditions specified in the authorisation earlier granted by it and same shall be recorded in the inspection report.

(3) The authorisation granted by the State Pollution Control Board under sub-rule (2) shall be accompanied by a copy of the field inspection report signed by that Board indicating the adequacy of facilities for collection, storage, packaging, transportation, treatment, processing, use, destruction, recycling, recovery, pre-processing, co-processing, utilisation, offering for sale, transfer or disposal of the hazardous and other wastes and compliance to the guidelines or standard operating procedures specified by the Central Pollution Control Board from time to time.

(4) The State Pollution Control Board may, for the reasons to be recorded in writing and after giving reasonable opportunity of being heard to the applicant, refuse to grant any authorisation under these rules.

(5) Every occupier authorised under these rules, shall maintain a record of hazardous and other wastes managed by him in Form 3 and prepare and submit to the State Pollution Control Board, an annual return containing the details specified in Form 4 on or before the 30th day of June following the financial year to which that return relates.

(6) The State Pollution Control Board shall maintain a register containing particulars of the conditions imposed under these rules for management of hazardous and other wastes and it shall be open for inspection during office hours to any interested or affected person.

(7) The authorised actual user of hazardous and other wastes shall maintain records of hazardous and other wastes purchased in a passbook issued by the State Pollution Control Board along with the authorisation.

(8) Handing over of the hazardous and other wastes to the authorised actual user shall be only after making the entry into the passbook of the actual user.

7. **Power to suspend or cancel an authorisation.**- (1) The State Pollution Control Board may, if in its opinion the holder of the authorisation has failed to comply with any of the conditions of the authorisation or with any provisions of the Act or these rules and after giving him a reasonable opportunity of being heard and after recording reasons thereof in writing cancel or suspend the authorisation issued under rule 6 for such period as it considers necessary in the public interest.

(2) Upon suspension or cancellation of the authorisation, the State Pollution Control Board may give directions to the person whose authorisation has been suspended or cancelled for the safe storage and management of the hazardous and other wastes, and such occupier shall comply with such directions.

8. **Storage of hazardous and other wastes.**- (1) The occupiers of facilities may store the hazardous and other wastes for a period not exceeding ninety days and shall maintain a record of sale, transfer, storage, recycling, recovery, pre-processing, co-processing and utilisation of such wastes and make these records available for inspection.

Provided that the State Pollution Control Board may extend the said period of ninety days in following cases, namely:-

- (i) small generators (up to ten tonnes per annum) up to one hundred and eighty days of their annual capacity;
- (ii) actual users and disposal facility operators up to one hundred and eighty days of their annual capacity;
- (iii) occupiers who do not have access to any treatment, storage, disposal facility in the concerned State; or
- (iv) the waste which needs to be specifically stored for development of a process for its recycling, recovery, pre-processing, co-processing or utilisation;
- (v) in any other case, on justifiable grounds up to one hundred and eighty days.

9. **Utilisation of hazardous and other wastes.**-(1) The utilisation of hazardous and other wastes as a resource or after pre-processing either for co-processing or for any other use, including within the premises of the generator (if it is not part of process), shall be carried out only after obtaining authorisation from the State Pollution Control Board in respect of waste on the basis of standard operating procedures or guidelines provided by the Central Pollution Control Board.

(2) Where standard operating procedures or guidelines are not available for specific utilisation, the approval has to be sought from Central Pollution Control Board which shall be granting approval on the basis of trial runs and thereafter, standard operating procedures or guidelines shall be prepared by Central Pollution Control Board.

Provided, if trial run has been conducted for particular waste with respect to particular utilisation and compliance to the environmental standards has been demonstrated, authorisation may be granted by the State Pollution Control Board with respect to the same waste and utilisation, without need of separate trial run by Central Pollution Control Board and such cases of successful trial run, Central Pollution Control Board shall intimate all the State Pollution Control Board regarding the same.

(3) No trial runs shall be required for co-processing of waste in cement plants for which guidelines by the Central Pollution Control Board are already available; however, the actual users shall

ensure compliance to the standards notified under the Environment (Protection) Act, 1986 (29 of 1986), for cement plant with respect to co-processing of waste:

Provided that till the time the standards are notified, the procedure as applicable to other kind of utilisation of hazardous and other waste, as enumerated above shall be followed

10. **Standard Operating Procedure or guidelines for actual users.**- The Ministry of Environment, Forest and Climate Change or the Central Pollution Control Board may issue guidelines or standard operating procedures for environmentally sound management of hazardous and other wastes from time to time.

CHAPTER III

IMPORT AND EXPORT OF HAZARDOUS AND OTHER WASTES

11. **Import and export (transboundary movement) of hazardous and other wastes.**- The Ministry of Environment, Forest and Climate Change shall be the nodal Ministry to deal with the transboundary movement of the hazardous and other wastes in accordance with the provisions of these rules.
12. **Strategy for import and export of hazardous and other wastes.**- (1) No import of the hazardous and other wastes from any country to India for disposal shall be permitted
- (2) The import of hazardous and other wastes from any country shall be permitted only for recycling, recovery, reuse and utilisation including co-processing.
- (3) The import of hazardous waste in Part A of Schedule III may be allowed to actual users with the prior informed consent of the exporting country and shall require the permission of the Ministry of Environment, Forest and Climate Change.
- (4) The import of other wastes in Part B of Schedule III may be allowed to actual users with the permission of the Ministry of Environment, Forest and Climate Change.
- (5) The import of other wastes in Part D of Schedule III will be allowed as per procedure given in rule 13 and as per the note below the said Schedule.
- (6) No import of the hazardous and other wastes specified in Schedule VI shall be permitted.
- (7) The export of hazardous and other wastes from India listed in Part A and Part B of Schedule III and Schedule VI shall be with the permission of Ministry of Environment, Forest and Climate Change. In case of applications for export of hazardous and other waste listed in Part A of Schedule III and Schedule VI, they shall be considered on the basis of prior informed consent of the importing country.
- (8) The import and export of hazardous and other wastes not specified in Schedule III but exhibiting the hazardous characteristics outlined in Part C of Schedule III shall require prior written permission of the Ministry of Environment, Forest and Climate Change before it is imported to or exported from India, as the case may be.

3. Procedure for import of hazardous and other wastes.- (1) Actual users intending to import or transit for transboundary movement of hazardous and other wastes specified in Part A and Part B of Schedule III shall apply in Form 5 along with the documents listed therein, to the Ministry of Environment, Forest and Climate Change for the proposed import together with the prior informed consent of the exporting country in respect of Part A of Schedule III waste, and shall send a copy of the application, simultaneously, to the concerned State Pollution Control Board for information and the acknowledgement in this respect from the concerned State Pollution Control Board shall be submitted to the Ministry of Environment, Forest and Climate Change along with the application.

(2) For the import of other wastes listed in Part D of Schedule III, the importer shall not require the permission of the Ministry of Environment, Forest and Climate Change. However, the importer shall furnish the required information as per Form 6 to the Customs authorities, accompanied with the following documents in addition to those listed in Schedule VIII, wherever applicable. For used electrical and electronic assemblies listed at serial numbers 4 (e) to 4(i) of Schedule VII (Serial No. B1110), there is no specific requirement of documentation under these rules.

- (a) the import license from Directorate General of Foreign Trade, if applicable;
- (b) the valid consents under the Water (Prevention and Control of Pollution) Act, 1974 (25 of 1974) and the Air (Prevention and Control of Pollution) Act, 1981 (21 of 1981) and the authorisation under these rules as well as the authorisation under the E-Waste (Management and Handling) Rules, 2011, as amended from time to time, whichever applicable;
- (c) importer who is a trader, importing waste on behalf of actual users, shall obtain one time authorisation in Form 7 and copy of this authorisation shall be appended to Form 6

(3) For Part B of Schedule III, in case of import of any used electrical and electronic assemblies or spares or part or component or consumables as listed under Schedule I of the E-Waste (Management and Handling) Rules, 2011, as amended from time to time, the importer need to obtain extended producer responsibility-authorisation as producer under the said E-Waste (Management and Handling) Rules, 2011.

(4) Prior to clearing of consignment of wastes listed in Part D of Schedule III, the Customs authorities shall verify the documents as given in column (3) of Schedule VIII.

(5) On receipt of the complete application with respect to Part A and Part B of Schedule III, the Ministry of Environment, Forest and Climate Change shall examine the application considering the comments and observations, if any, received from the State Pollution Control Boards, and may grant the permission for import within a period of sixty days subject to the condition that the importer has -

- (i) the environmentally sound facilities;
- (ii) adequate arrangements for treatment and disposal of wastes generated;
- (iii) a valid authorisation and consents from the State Pollution Control Board;
- (iv) prior informed consent from the exporting country in case of Part A of Schedule III wastes.

(6) The Ministry of Environment, Forest and Climate Change shall forward a copy of the permission to the concerned Port and Customs authorities, Central Pollution Control Board and the concerned State Pollution Control Board for ensuring compliance with respect to their respective functions given in Schedule VII.

(7) The importer of the hazardous and other wastes shall maintain records of the hazardous and other waste imported by him in **Form 3** and the record so maintained shall be made available for inspection.

(8) The importer of the hazardous and other wastes shall file an annual return in **Form 4** to the State Pollution Control Board on or before the 30th day of June following the financial year to which that return relates.

(9) Samples of hazardous and other wastes being imported for testing or research and development purposes up to 1000 gm or 1000 ml shall be exempted from need of taking permission for import under these rules.

(10) The Port and Customs authorities shall ensure that shipment is accompanied with the movement document as given in **Form 6** and the test report of analysis of the waste consignment, wherever applicable, from a laboratory accredited or recognised by the exporting country. In case of any doubt, the customs may verify the analysis.

14. Procedure for Export of hazardous and other wastes from India.- (1) Any occupier intending to export waste specified in Part A of Schedule III, Part B of Schedule III and Schedule VI, shall make an application in **Form 5** along with insurance cover to the Ministry of Environment, Forest and Climate Change for the proposed transboundary movement of the hazardous and other wastes together with the prior informed consent in writing from the importing country in respect of wastes specified in Part A of Schedule III and Schedule VI.

(2) On receipt of an application under sub-rule (1), the Ministry of Environment, Forest and Climate Change may give permission for the proposed export within a period of sixty days from the date of submission of complete application and may impose such conditions as it may consider necessary.

(3) The Ministry of Environment, Forest and Climate Change shall forward a copy of the permission granted under sub-rule (2) to the State Pollution Control Board of the State where the waste is generated and the Pollution Control Board of the State where the port of export is located and the concerned Port and Customs authorities for ensuring compliance of the conditions of the export permission.

(4) The exporter shall ensure that no consignment is shipped before the prior informed consent is received from the importing country, wherever applicable.

(5) The exporter shall also ensure that the shipment is accompanied with movement document in **Form 6**.

(6) The exporter of the hazardous and other wastes shall maintain the records of the hazardous or other waste exported by him in **Form 3** and the record so maintained shall be available for inspection.

15. Illegal traffic.- (1) The export and import of hazardous or other wastes from and into India, respectively shall be deemed illegal, if,-

- (i) it is without permission of the Central Government in accordance with these rules, or
- (i) the permission has been obtained through falsification, mis-representation or fraud, or
- (ii) it does not conform to the shipping details provided in the movement documents; or

- (iv) it results in deliberate disposal (i.e., dumping) of hazardous or other waste in contravention of the Basel Convention and of general principles of international or domestic law.

(2) In case of illegal import of the hazardous or other waste, the importer shall re-export the waste in question at his cost within a period of ninety days from the date of its arrival into India and its implementation will be ensured by the concerned Port and the Custom authority. In case of disposal of such waste by the Port and Custom authorities, they shall do so in accordance with these rules with the permission of the Pollution Control Board of the State where the Port exists.

(3) In case of illegal import of hazardous or other waste, where the importer is not traceable then the waste either can be sold by the Customs authority to any user having authorisation under these rules from the concerned State Pollution Control Board or can be sent to authorised treatment, storage and disposal facility.

CHAPTER - IV

TREATMENT, STORAGE AND DISPOSAL FACILITY FOR HAZARDOUS AND OTHER WASTES

16. **Treatment, storage and disposal facility for hazardous and other wastes.**- (1) The State Government, occupier, operator of a facility or any association of occupiers shall individually or jointly or severally be responsible for identification of sites for establishing the facility for treatment, storage and disposal of the hazardous and other waste in the State.

(2) The operator of common facility or occupier of a captive facility, shall design and set up the treatment, storage and disposal facility as per technical guidelines issued by the Central Pollution Control Board in this regard from time to time and shall obtain approval from the State Pollution Control Board for design and layout in this regard.

(3) ~~The State Pollution Control Board~~ shall monitor the setting up and operation of the common or captive treatment, storage and disposal facility, regularly.

(4) The operator of common facility or occupier of a captive facility shall be responsible for safe and environmentally sound operation of the facility and its closure and post closure phase, as per guidelines or standard operating procedures issued by the Central Pollution Control Board from time to time.

(5) The operator of common facility or occupier of a captive facility shall maintain records of hazardous and other wastes handled by him in Form 3.

(6) The operator of common facility or occupier of a captive facility shall file an annual return in Form 4 to the State Pollution Control Board on or before the 30th day of June following the financial year to which that return relates.

CHAPTER - V

PACKAGING, LABELLING, AND TRANSPORT OF HAZARDOUS AND OTHER WASTES.

17. **Packaging and Labelling.**- (1) Any occupier handling hazardous or other wastes and operator of the treatment, storage and disposal facility shall ensure that the hazardous and other wastes are packaged in a manner suitable for safe handling, storage and transport as per the guidelines issued by the Central Pollution Control Board from time to time. The labelling shall be done as per Form 8.

(2) The label shall be of non-washable material, weather proof and easily visible.

18. **Transportation of hazardous and other wastes.**- (1) The transport of the hazardous and other waste shall be in accordance with the provisions of these rules and the rules made by the Central Government under the Motor Vehicles Act, 1988 and the guidelines issued by the Central Pollution Control Board from time to time in this regard.

(2) The occupier shall provide the transporter with the relevant information in Form 9, regarding the hazardous nature of the wastes and measures to be taken in case of an emergency and shall label the hazardous and other wastes containers as per Form 8.

(3) In case of transportation of hazardous and other waste for final disposal to a facility existing in a State other than the State where the waste is generated, the sender shall obtain 'No Objection Certificate' from the State Pollution Control Board of both the States.

(4) In case of transportation of hazardous and other waste for recycling or utilisation including co-processing, the sender shall intimate both the State Pollution Control Boards before handing over the waste to the transporter.

(5) In case of transit of hazardous and other waste for recycling, utilisation including co-processing or disposal through a State other than the States of origin and destination, the sender shall give prior intimation to the concerned State Pollution Control Board of the States of transit before handing over the wastes to the transporter.

(6) In case of transportation of hazardous and other waste, the responsibility of safe transport shall be either of the sender or the receiver whosoever arranges the transport and has the necessary authorisation for transport from the concerned State Pollution Control Board. This responsibility should be clearly indicated in the manifest.

(7) The authorisation for transport shall be obtained either by the sender or the receiver on whose behalf the transport is being arranged.

19. **Manifest system (Movement Document) for hazardous and other waste to be used within the country only.**- (1) The sender of the waste shall prepare seven copies of the manifest in Form 10 comprising of colour code indicated below and all seven copies shall be signed by the sender.

Copy number with colour code	Purpose
(1)	(2)
Copy 1 (White)	To be forwarded by the sender to the State Pollution Control Board after signing all the seven copies.
Copy 2 (Yellow)	To be retained by the sender after taking signature on it from the transporter and the rest of the five signed copies to be carried by the transporter.
Copy 3 (Pink)	To be retained by the receiver (actual user or treatment storage and disposal facility operator) after receiving the waste and the remaining four copies are to be duly signed by the receiver.
Copy 4 (Orange)	To be handed over to the transporter by the receiver after accepting waste.
Copy 5 (Green)	To be sent by the receiver to the State Pollution Control Board.
Copy 6 (Blue)	To be sent by the receiver to the sender.
Copy 7 (Grey)	To be sent by the receiver to the State Pollution Control Board of the sender in case the sender is in another State.

- (2) The sender shall forward copy 1 (white) to the State Pollution Control Board, and in case the hazardous or other wastes is likely to be transported through any transit State, the sender shall intimate State Pollution Control Boards of transit States about the movement of the waste.
- (3) No transporter shall accept waste from the sender for transport unless it is accompanied by signed copies 3 to 7 of the manifest.
- (4) The transporter shall submit copies 3 to 7 of the manifest duly signed with date to the receiver along with the waste consignment.
- (5) The receiver after acceptance of the waste shall hand over copy 4 (orange) to the transporter and send copy 5 (green) to his State Pollution Control Board and send copy 6 (blue) to the sender and the copy 3 (pink) shall be retained by the receiver.
- (6) The copy 7 (grey) shall only be sent to the State Pollution Control Board of the sender, if the sender is in another State.

CHAPTER VI MISCELLANIOUS

20. **Records and returns.**- (1) The occupier handling hazardous or other wastes and operator of disposal facility shall maintain records of such operations in Form 3.
- (2) The occupier handling hazardous and other wastes and operator of disposal facility shall send annual returns to the State Pollution Control Board in Form 4.
- (3) The State Pollution Control Board based on the annual returns received from the occupiers and the operators of the facilities for disposal of hazardous and other wastes shall prepare an annual inventory of the waste generated; waste recycled, recovered, utilised including co-processed; waste re-exported and waste disposed and submit to the Central Pollution Control Board by the 30th day of September every year. The State Pollution Control Board shall also prepare the inventory of hazardous waste generators, actual users, and common and captive

disposal facilities and shall submit the information to Central Pollution Control Board every two years.

(4) The Central Pollution Control Board shall prepare the consolidated review report on management of hazardous and other wastes and forward it to the Ministry of Environment, Forest and Climate Change, along with its recommendations before the 30th day of December once in every year.

21. **Responsibility of authorities.** - The authority specified in column (2) of Schedule VII shall perform the duties as specified in column (3) of the said Schedule subject to the provisions of these rules.

22. **Accident reporting.** - Where an accident occurs at the facility of the occupier handling hazardous or other wastes and operator of the disposal facility or during transportation, the occupier or the operator or the transporter shall immediately intimate the State Pollution Control Board through telephone, e-mail about the accident and subsequently send a report in Form 11.

23. **Liability of occupier, importer or exporter and operator of a disposal facility.** -

(1) The occupier, importer or exporter and operator of the disposal facility shall be liable for all damages caused to the environment or third party due to improper handling and management of the hazardous and other waste.

(2) The occupier and the operator of the disposal facility shall be liable to pay financial penalties as levied for any violation of the provisions under these rules by the State Pollution Control Board with the prior approval of the Central Pollution Control Board.

24. **Appeal.**- (1) Any person aggrieved by an order of suspension or cancellation or refusal of authorisation or its renewal passed by the State Pollution Control Board may, within a period of thirty days from the date on which the order is communicated to him, prefer an appeal in Form 12 to the Appellate Authority, namely, the Environment Secretary of the State.

(2) The Appellate Authority may entertain the appeal after expiry of the said period of thirty days if it is satisfied that the appellant was prevented by sufficient cause from filing the appeal in time.

(3) Every appeal filed under this rule shall be disposed of within a period of sixty days from the date of its filing.

SCHEDULE I
[See rule 3 (1) (17) (i)]

List of processes generating hazardous wastes

S.No. (1)	Processes (2)	Hazardous Waste* (3)
1.	Petrochemical processes and pyrolytic operations	1.1 Furnace or reactor residue and debris 1.2 Tarry residues and still bottoms from distillation 1.3 Oily sludge emulsion 1.4 Organic residues 1.5 Residues from alkali wash of fuels

	(2)	(3)
		1.6 Spent catalyst and molecular sieves 1.7 Oil from wastewater treatment
2.	Crude oil and natural gas production	2.1 Drill cuttings excluding those from water based mud 2.2 Sludge containing oil 2.3 Drilling mud containing oil
3.	Cleaning, emptying and maintenance of petroleum oil storage tanks including ships	3.1 cargo residue, washing water and sludge containing oil 3.2 cargo residue and sludge containing chemicals 3.3 Sludge and filters contaminated with oil 3.4 Ballast water containing oil from ships
4.	Petroleum refining or re-processing of used oil or recycling of waste oil	4.1 Oil sludge or emulsion 4.2 Spent catalyst 4.3 Slop oil 4.4 Organic residue from processes 4.5 Spent clay containing oil
5.	Industrial operations using mineral or synthetic oil as lubricant in hydraulic systems or other applications	5.1 Used or spent oil 5.2 Wastes or residues containing oil 5.3 Waste cutting oils
6.	Secondary production and / or industrial use of zinc	6.1 Sludge and filter press cake arising out of production of Zinc Sulphate and other Zinc Compounds 6.2 Zinc fines or dust or ash or skimmings in dispersible form 6.3 Other residues from processing of zinc ash or skimmings 6.4 Flue gas dust and other particulates
7.	Primary production of zinc or lead or copper and other non-ferrous metals except aluminium	7.1 Flue gas dust from roasting 7.2 Process residues 7.3 Arsenic-bearing sludge 7.4 Non-ferrous metal bearing sludge and residue. 7.5 Sludge from scrubbers
8.	Secondary production of copper	8.1 Spent electrolytic solutions 8.2 Sludge and filter cakes 8.3 Flue gas dust and other particulates
9.	Secondary production of lead	9.1 Lead bearing residues 9.2 Lead ash or particulate from flue gas 9.3 Acid from used batteries
10.	Production and/or industrial use of cadmium and arsenic and their compounds	10.1 Residues containing cadmium and arsenic
11.	Production of primary and secondary aluminum	11.1 Sludges from off-gas treatment 11.2 Cathode residues including pot lining wastes 11.3 Tar containing wastes 11.4 Flue gas dust and other particulates 11.5 Drosses and waste from treatment of salt sludge

(1)	(2)	(3)
		11.6 Used anode butts 11.7 Vanadium sludge from alumina refineries
12.	Metal surface treatment, such as etching, staining, polishing, galvanizing, cleaning, degreasing, plating, etc.	12.1 Acidic and alkaline residues 12.2 Spent acid and alkali 12.3 Spent bath and sludge containing sulphide, cyanide and toxic metals 12.4 Sludge from bath containing organic solvents 12.5 Phosphate sludge 12.6 Sludge from staining bath 12.7 Copper etching residues 12.8 Plating metal sludge
13.	Production of iron and steel including other ferrous alloys (electric furnace; steel rolling and finishing mills; Coke oven and by products plant)	13.1 Spent pickling liquor 13.2 Sludge from acid recovery unit 13.3 Benzol acid sludge 13.4 Decanter tank tar sludge 13.5 Tar storage tank residue 13.6 Residues from coke oven by product plant.
14.	Hardening of steel	14.1 Cyanide-, nitrate-, or nitrite -containing sludge 14.2 Spent hardening salt
15.	Production of asbestos or asbestos-containing materials	15.1 Asbestos-containing residues 15.2 Discarded asbestos 15.3 Dust or particulates from exhaust gas treatment.
16.	Production of caustic soda and chlorine	16.1 Mercury bearing sludge generated from mercury cell process 16.2 Residue or sludges and filter cakes 16.3 Brine sludge
17.	Production of mineral acids	17.1 Process acidic residue, filter cake, dust 17.2 Spent catalyst
18.	Production of nitrogenous and complex fertilizers	18.1 Spent catalyst 18.2 Carbon residue 18.3 Sludge or residue containing arsenic 18.4 Chromium sludge from water cooling tower
19.	Production of phenol	19.1 Residue or sludge containing phenol 19.2 Spent catalyst
20.	Production and/or industrial use of solvents	20.1 Contaminated aromatic, aliphatic or naphthenic solvents may or may not be fit for reuse. 20.2 Spent solvents 20.3 Distillation residues 20.4 Process Sludge
21.	Production and/or industrial use of paints, pigments, lacquers, varnishes and inks	21.1 Process wastes, residues and sludges 21.2 Spent solvent
22.	Production of plastics	22.1 Spent catalysts 22.2 Process residues
23.	Production and /or industrial use of glues, organic cements,	23.1 Wastes or residues (not made with vegetable or animal materials)

(1)	(2)	(3)
	adhesive and resins	23.2 Spent solvents
24.	Production of canvas and textiles	24.1 Chemical residues
25.	Industrial production and formulation of wood preservatives	25.1 Chemical residues 25.2 Residues from wood alkali bath
26.	Production or industrial use of synthetic dyes, dye-intermediates and pigments	26.1 Process waste sludge/residues containing acid, toxic metals, organic compounds 26.2 Dust from air filtration system 26.3 Spent acid 26.4 Spent solvent 26.5 Spent catalyst
27.	Production of organic-silicone compound	27.1 Process residues
28.	Production/formulation of drugs/pharmaceutical and health care product	28.1 Process Residue and wastes 28.2 Spent catalyst 28.3 Spent carbon 28.4 Off specification products 28.5 Date-expired products 28.6 Spent solvents
29.	Production, and formulation of pesticides including stock-piles	29.1 Process wastes or residues 29.2 Sludge containing residual pesticides 29.3 Date-expired and off-specification pesticides 29.4 Spent solvents 29.5 Spent catalysts 29.6 Spent acids
30.	Leather tanneries	30.1 Chromium bearing residue and sludge
31.	Electronic Industry	31.1 Process residue and wastes 31.2 Spent etching chemicals and solvents
32.	Pulp and Paper Industry	32.1 Spent chemicals 32.2 Corrosive wastes arising from use of strong acid and bases 32.3 Process sludge containing adsorbable organic halides(AOX)
33.	Handling of hazardous chemicals and wastes	33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes 33.2 Contaminated cotton rags or other cleaning materials
34.	De-contamination of barrels / containers used for handling of hazardous wastes/chemicals	34.1 Chemical-containing residue arising from decontamination 34.2 Sludge from treatment of waste water arising out of cleaning / disposal of barrels / containers
35.	Purification and treatment of exhaust air/gases, water and waste water from the processes in this schedule and common industrial effluent treatment plants (CETP's)	35.1 Exhaust Air or Gas cleaning residue 35.2 Spent ion exchange resin containing toxic metals 35.3 Chemical sludge from waste water treatment 35.4 Oil and grease skimming 35.5 Chromium sludge from cooling water
36.	Purification process for organic	36.1 Any process or distillation residue

(1)	(2)	(3)
	compounds/solvents	33.2 Spent carbon or filter medium
37.	Hazardous waste treatment processes, e.g. pre-processing, incineration and concentration	37.1 Sludge from wet scrubbers 37.2 Ash from incinerator and flue gas cleaning residue 37.3 Concentration or evaporation residues
38.	Chemical processing of Ores containing heavy metals such as Chromium, Manganese, Nickel, Cadmium etc.	38.1 Process residues 38.2 Spent acid

- * The inclusion of wastes contained in this Schedule does not preclude the use of Schedule II to demonstrate that the waste is not hazardous. In case of dispute, the matter would be referred to the Technical Review Committee constituted by Ministry of Environment, Forest and Climate Change.

Note: The high volume low effect wastes such as fly ash, Phosphogypsum, red mud, jarosite, Slags from pyrometallurgical operations, mine tailings and ore beneficiation rejects are excluded from the category of hazardous wastes. Separate guidelines on the management of these wastes shall be issued by Central Pollution Control Board.

SCHEDULE II
[See rule 3 (1) (17) (ii)]

List of waste constituents with concentration limits

Class A: Based on leachable concentration limits [Toxicity Characteristic Leaching Procedure (TCLP) or Soluble Threshold Limit Concentration (STLC)]

Class	Constituents	Concentration in mg/l
(1)	(2)	(3)
A1	Arsenic	5.0
A2	Barium	100.0
A3	Cadmium	1.0
A4	Chromium and/or Chromium (III) compounds	5.0
A5	Lead	5.0
A6	Manganese	10.0
A7	Mercury	0.2
A8	Selenium	1.0
A9	Silver	5.0
A10	Ammonia	50*
A11	Cyanide	20*
A12	Nitrate (as nitrate-nitrogen)	1000.0
A13	Sulphide (as H ₂ S)	5.0
A14	1,1-Dichloroethylene	0.7
A15	1,2-Dichloroethane	0.5
A16	1,4-Dichlorobenzene	7.5
A17	2,4,5-Trichlorophenol	400.0
A18	2,4,6-Trichlorophenol	2.0
A19	2,4-Dinitrotoluene	0.13
A20	Benzene	0.5
A21	Benzo (a) Pyrene	0.001
A22	Bromodichloromethane	6.0
A23	Bromoform	10.0
A24	Carbon tetrachloride	0.5
A25	Chlorobenzene	100.0
A26	Chloroform	6.0
A27	Cresol (ortho+ meta+ para)	200.0
A28	Dibromochloromethane	10.0
A29	Hexachlorobenzene	0.13
A30	Hexachlorobutadiene	0.5
A31	Hexachloroethane	3.0
A32	Methyl ethyl ketone	200.0
A33	Naphthalene	5.0
A34	Nitrobenzene	2.0
A35	Pentachlorophenol	100.0
A36	Pyridine	5.0
A37	Tetrachloroethylene	0.7
A38	Trichloroethylene	0.5

(1)	(2)	(3)
A39	Vinyl chloride	
A40	2,4,5-TP (Silvex)	0.2
A41	2,4-Dichlorophenoxyacetic acid	1.0
A42	Alachlor	10.0
A43	Alpha HCH	2.0
A44	Atrazine	0.001
A45	Beta HCH	0.2
A46	Butachlor	0.004
A47	Chlordane	12.5
A48	Chlorpyrifos	0.03
A49	Delta HCH	0.0
A50	Endosulfan (alpha+ beta+ sulphate)	0.004
A51	Endrin	0.04
A52	Ethion	0.02
A53	Heptachlor (& its Epoxide)	0.3
A54	Isoproturon	0.008
A55	Lindane	0.9
A56	Malathion	0.4
A57	Methoxychlor	19
A58	Methyl parathion	10
A59	Monocrotophos	0.7
A60	Phorate	0.1
A61	Toxaphene	0.2
A62	Antimony	0.5
A63	Beryllium	15
A64	Chromium (VI)	0.75
A65	Cobalt	5.0
A66	Copper	80.0
A67	Molybdenum	25.0
A68	Nickel	350
A69	Thallium	20.0
A70	Vanadium	7.0
A71	Zinc	24.0
A72	Fluoride	250
A73	Aldrin	180.0
A74	Dichlorodiphenyltrichloroethane (DDT), Dichlorodiphenylchloroethylene (DDE), Dichlorodiphenyldichloroethane (DDD)	0.14 0.1
A75	Dieldrin	
A76	Kepone	0.8
A77	Mirex	2.1
A78	Polychlorinated biphenyls	2.1
A79	Dioxin (2,3,7,8-TCDD)	5.0 0.001

Class B: Based on Total Threshold Limit Concentration (TTLC)

Class	Constituent	Concentration in mg/kg
(1)	(2)	(3)
B1	Asbestos	10000
B2	Total Petroleum Hydrocarbons (TPH) (C5 - C36)	5,000

Note:

- (1) The testing method for list of constituents at A1 to A61 in Class-A, shall be based on Toxicity Characteristic Leaching Procedure (TCLP) and for extraction of leachable constituents, USEPA Test Method 1311 shall be used.
- (2) The testing method for list of constituents at A62 to A79 in Class- A, shall be based on Soluble Threshold Limit Concentration (STLC) and Waste Extraction Test (WET) Procedure given in Appendix II of section 66261 of Title 22 of California Code regulation (CCR) shall be used.
- (3) In case of ammonia (A10), cyanide (A11) and chromium VI (A64), extractions shall be conducted using distilled water in place of the leaching media specified in the TCLP/STLC procedures.
- (4) A summary of above specified leaching/extraction procedures is included in manual for characterization and analysis of hazardous waste published by Central Pollution Control Board and in case the method is not covered in the said manual, suitable reference method may be adopted for the measurement.
- (5) In case of asbestos, the specified concentration limits apply only if the substances are in a friable, powdered or finely divided state.
- (6) The hazardous constituents to be analyzed in the waste shall be relevant to the nature of the industry and the materials used in the process.
- (7) Wastes which contain any of the constituents listed below shall be considered as hazardous, provided they exhibit the characteristics listed in Class-C of this Schedule:

1.	Acid Amides
2.	Acid anhydrides
3.	Amines
4.	Anthracene
5.	Aromatic compounds other than those listed in Class A
6.	Bromates, (hypo-bromites)
7.	Chlorates (hypo-chlorites)
8.	Carbonyls
9.	Ferro-silicate and alloys
10.	Halogen- containing compounds which produce acidic vapours on contact with humid air or water e.g. silicon tetrachloride, aluminum chloride, titanium tetrachloride
11.	Halogen- silanes
12.	Halogenated Aliphatic Compounds
13.	Hydrazine (s)

14.	Hydrides
15.	Inorganic Acids
16.	Inorganic Peroxides
17.	Inorganic Tin Compounds
18.	Iodates
19.	(Iso- and thio-) Cyanates
20.	Manganese-silicate
21.	Mercaptans
22.	Metal Carbonyls
23.	Metal hydrogen sulphates
24.	Nitrides
25.	Nitriles
26.	Organic azo and azoxy Compounds
27.	Organic Peroxides
28.	Organic Oxygen Compounds
29.	Organic Sulphur Compounds
30.	Organo- Tin Compounds
31.	Organo nitro- and nitroso compounds
32.	Oxides and hydroxides except those of hydrogen, carbon, silicon, iron, aluminum, titanium, manganese, magnesium, calcium
33.	Phenanthrene
34.	Phenolic Compounds
35.	Phosphate compounds except phosphates of aluminum, calcium and iron
36.	Salts of pre-acids
37.	Total Sulphur
38.	Tungsten Compounds
39.	Tellurium and tellurium compounds
40.	White and Red Phosphorus
41.	2-Acetylaminofluorene
42.	4-Aminodiphenyl
43.	Benzidine and its salts
44.	Bis (Chloromethyl) ether
45.	Methyl chloromethyl ether
46.	1,2-Dibromo-3-chloropropane
47.	3,3'-Dichlorobenzidine and its salts
48.	4-Dimethylaminoazobenzene
49.	4-Nitrobiphenyl
50.	Beta-Propiolactone

CLASS C : Based on hazardous Characteristics

Apart from the concentration limit given above, the substances or wastes shall be classified as hazardous waste if it exhibits any of the following characteristics due to the presence of any hazardous constituents:

➤ **Class C1: Flammable-** A waste exhibits the characteristic of flammability or ignitability if a representative sample of the waste has any of the following properties, namely:-

- (i) flammable liquids, or mixture of liquids, or liquids containing solids in solution or suspension (for example, paints, varnishes, lacquers, etc; but not including substances or wastes otherwise classified on account of their dangerous characteristics), which give off a flammable vapour at temperature less than 60°C. This flash point shall be measured as per ASTM D 93-79 closed-cup test method or as determined by an equivalent test method published by Central Pollution Control Board,
- (ii) it is not a liquid and is capable, under standard temperature and pressure, of causing fire through friction, absorption of moisture or spontaneous chemical changes and, when ignited, burns vigorously and persistently creating a hazard;
- (iii) it is an ignitable compressed gas;
- (iv) It is an oxidizer and for the purposes of characterisation is a substance such as a chlorate, permanganate, inorganic peroxide, or a nitrate, that yields oxygen readily to stimulate the combustion of organic matter.

Class C2: Corrosive- A waste exhibits the characteristic of corrosivity if a representative sample of the waste has either of the following properties, namely:-

- (i) it is aqueous and has a pH less than or equal to 2 or greater than or equal to 12.5;
- (ii) it is a liquid and corrodes steel (SAE 1020) at a rate greater than 6.35 mm per year at a test temperature of 55 °C;
- (iii) it is not aqueous and, when mixed with an equivalent weight of water, produces a solution having a pH less than or equal to 2 or greater than or equal to 12.5;
- (iv) it is not a liquid and, when mixed with an equivalent weight of water, produces a liquid that corrodes steel (SAE1020) at a rate greater than 6.35 mm per year at a test temperature of 55 °C.

Note:

For the purpose of determining the corrosivity, the Bureau of Indian Standard 9040 C method for pH determination, NACE TM 01 69 : Laboratory Corrosion Testing of Metals and EPA 1110A method for corrosivity towards steel (SAE1020) to establish the corrosivity characteristics shall be adopted.

Class C3: Reactive or explosive- A waste exhibits the characteristic of reactivity if a representative sample of the waste it has any of the following properties, namely:-

- (i) it is normally unstable and readily undergoes violent change without detonating;
- (ii) it reacts violently with water or forms potentially explosive mixtures with water;
- (iii) when mixed with water, it generates toxic gases, vapours or fumes in a quantity sufficient to present a danger to human health or the environment;
- (iv) it is a cyanide or sulphide bearing waste which, when exposed to pH conditions between 2 and 12.5, can generate toxic gases, vapours or fumes in a quantity sufficient to present a danger to human health or the environmental;
- (v) it is capable of detonation or explosive reaction if it is subjected to a strong initiating source or if heated under confinement;
- (vi) it is readily capable of detonation or explosive decomposition or reaction at standard temperature and pressure;
- (vii) it is a forbidden explosive.

Class C4: Toxic- A waste exhibits the characteristic of toxicity, if, :-

- (i) the concentration of the waste constituents listed in Class A and B (of this schedule) are equal to or more than the permissible limits prescribed therein,
- (ii) it has an acute oral LD50 less than 2,500 milligrams per kilogram;
- (iii) it has an acute dermal LD50 less than 4,300 milligrams per kilogram;
- (iv) it has an acute inhalation LC50 less than 10,000 parts per million as a gas or vapour.
- (v) it has acute aquatic toxicity with 50% mortality within 96 hours for zebra fish (*Brachidanio rerio*) at a concentration of 500 milligrams per litre in dilution water and test conditions as specified in BIS test method 6582 - 2001.
- (vi) it has been shown through experience or by any standard reference test- method to pose a hazard to human health or environment because of its carcinogenicity, mutagenicity, endocrine disruptivity, acute toxicity, chronic toxicity, bio-accumulative properties or persistence in the environment.

Class C5: Substances or Wastes liable to spontaneous combustion - Substances or Wastes which are liable to spontaneous heating under normal conditions encountered in transport, or to heating up on contact with air, and being then liable to catch fire.

Class C6: Substances or Wastes which, in contact with water emit flammable gases- Substances or Wastes which, by interaction with water, are liable to become spontaneously flammable or to give off flammable gases in dangerous quantities.

Class C5: Oxidizing - Substances or Wastes which, while in themselves not necessarily combustible, may, generally by yielding oxygen cause, or contribute to, the combustion of other materials.

Class C8: Organic Peroxides - Organic substances or Wastes which contain the bivalent O-O structure, which may undergo exothermic self-accelerating decomposition.

Class C9: Poisons (acute) - Substances or Wastes liable either to cause death or serious injury or to harm human health if swallowed or inhaled or by skin contact.

Class C10: Infectious substances - Substances or Wastes containing viable micro-organisms or their toxins which are known or suspected to cause disease in animals or humans.

Class C11: Liberation of toxic gases in contact with air or water - Substances or Wastes which, by interaction with air or water, are liable to give off toxic gases in dangerous quantities.

Class C12: Eco-toxic- Substances or Wastes which if released, present or may present immediate or delayed adverse impacts to the environment by means of bioaccumulation or toxic effects upon biotic systems or both.

Class C13: Capable, by any means, after disposal, of yielding another material, e.g., leachate, which possesses any of the characteristics listed above.

SCHEDULE III

19/29/313

[See rules 3 (1) (17) (iii) 3 (23) 12, 13 and 14]

Part A

List of hazardous wastes applicable for import and export with Prior Informed Consent [Annexure VIII of the Basel Convention]

Basel No.	Description of Hazardous Wastes
(1)	(2)
A1	Metal and Metal bearing wastes
A1010	Metal wastes and waste consisting of alloys of any of the following but excluding such wastes specifically listed in Part B and Part D <ul style="list-style-type: none"> - Antimony - Cadmium - Lead - Tellurium
A1020	Waste having as constituents or contaminants, excluding metal wastes in massive form, any or the following: <ul style="list-style-type: none"> - Antimony, antimony compounds - Cadmium, cadmium compounds - Lead, lead compounds - Tellurium, tellurium compounds
A1040	Waste having metal carbonyls as constituents
A1050	Galvanic sludges
A1070	Leaching residues from zinc processing, dust and sludges such as jarosite, hematite, etc.
A1080	Waste zinc residues not included in Part B, containing lead and cadmium in concentrations sufficient to exhibit hazard characteristics indicated in Part C
A1090	Ashes from the incineration of insulated copper wire
A1100	Dusts and residues from gas cleaning systems of copper smelters
A1120	Waste sludges, excluding anode slimes, from electrolyte purification systems in copper electrorefining and electrowinning operations
A1140	Waste cupric chloride and copper cyanide catalysts not in liquid form note the related entry in Schedule VI
A1150	Precious metal ash from incineration of printed circuit boards not included in Part B
A1160	Waste lead acid batteries, whole or crushed
A1170	Unsorted waste batteries excluding mixtures of only Part B batteries. Waste batteries not specified in Part B containing constituents mentioned in Schedule II to an extent to render them hazardous
A2	Wastes containing principally inorganic constituents, which may contain metals and organic materials
A2010	Glass waste from cathode-ray tubes and other activated glasses
A2030	Waste catalysts but excluding such wastes specified in Part B
A3	Wastes containing principally organic constituents, which may contain metals and inorganic materials
A3010	Waste from the production or processing of petroleum coke and bitumen
A3020	Waste mineral oils unfit for their originally intended use
A3050	Wastes from production, formulation and use of resins, latex, plasticizers, glues or adhesives excluding such wastes specified in Part B (B4020)
A3120	Fluff-light fraction from shredding

(1)	(2)
A3130	Waste organic phosphorus compounds
A4	Wastes which may contain either inorganic or organic constituents
A4010	Wastes from the production, preparation and use of pharmaceutical products but excluding such waste specified in Part B
A4040	Wastes from the manufacture, formulation and use of wood-preserving chemicals (does not include wood treated with wood preserving chemicals)
A4070	Waste from the production, formulation and use of inks, dyes, pigments, paints, lacquers, varnish excluding those specified in Part B (B4010)
A4100	Wastes from industrial pollution control devices for cleaning of industrial off-gases but excluding such wastes specified in Part B
A4120	Wastes that contain, consist of or are contaminated with peroxides.
A4130	Wastes packages and containers containing Schedule II constituents in concentration sufficient to exhibit Part C of Schedule III hazard characteristics.
A4140	Waste consisting of or containing off specification or outdated chemicals (unused within the period recommended by the manufacturer) corresponding to constituents mentioned in Schedule II and exhibiting Part C of Schedule III hazard characteristics
A4160	Spent activated carbon not included in Part B, B2060

*This List is based on Annexure VIII of the Basel Convention on Transboundary Movement of Hazardous Wastes and comprises of wastes characterized as hazardous under Article 1, paragraph 1(a) of the Convention. Inclusion of wastes on this list does not preclude the use of hazard

Characteristics given in Annexure VIII of the Base Convention (Part C of this Schedule) to demonstrate that the wastes are not hazardous. Hazardous wastes in Part-A are restricted and cannot be allowed to be imported without permission from the Ministry of Environment, Forest and Climate Change and the Directorate General of Foreign Trade license, if applicable.

Part B

List of other wastes applicable for import and export and not requiring Prior Informed Consent [Annex IX of the Basel Convention*]

Basel No.	Description of wastes
(1)	(2)
B1	Metal and metal-bearing wastes
B1010	Metal and metal-alloy wastes in metallic, non-dispersible form. <ul style="list-style-type: none"> - Thorium scrap - Rare earths scrap
B1020	Clean, uncontaminated metal scrap, including alloys, in bulk finished form (sheet, plates, beams, rods, etc.), of <ul style="list-style-type: none"> - Antimony scrap - Beryllium scrap - Cadmium scrap - Lead scrap (excluding lead acid batteries) - Selenium scrap - Tellurium scrap
B1030	Refractory metals containing residues

#1.	(2)
B1031	Molybdenum, tungsten, titanium, tantalum, niobium and rhenium metal and metal alloy wastes in metallic dispersible form (metal powder), excluding such wastes as specified in Part A under entry A1050, Galvanic sludges
B1040	Scrap assemblies from electrical power generation not contaminated with lubricating oil, PCB or PCT to an extent to render them hazardous
B1050	Mixed non-ferrous metal, heavy fraction scrap, containing cadmium, antimony, lead & tellurium mentioned in Schedule II in concentrations sufficient to exhibit Part C characteristics
B1060	Waste selenium and tellurium in metallic elemental form including powder
B1070	Waste of copper and copper alloys in dispersible form, unless they contain any of the constituents mentioned in Schedule II to an extent that they exhibit Part C characteristics
B1080	Zinc ash and residues including zinc alloys residues in dispersible form unless they contain any of the constituents mentioned in Schedule II in concentration such as to exhibit Part C characteristics
B1090	Waste batteries conforming to a standard battery specification, excluding those made with lead, cadmium or mercury
B1100	Metal bearing wastes arising from melting, smelting and refining of metals.
	<ul style="list-style-type: none"> - Slags from copper processing for further processing or refining containing arsenic, lead or cadmium
	<ul style="list-style-type: none"> - Slags from precious metals processing for further refining
	<ul style="list-style-type: none"> - Wastes of refractory linings, including crucibles, originating from copper smelting - Tantalum-bearing tin slags with less than 0.5% tin
B1110	Used Electrical and electronic assemblies other than those listed in Part D of Schedule III
	<p>Electronic assemblies consisting only of metals or alloys</p> <p>Waste electrical and electronic assemblies or scrap (including printed circuit boards) not containing components such as accumulators and other batteries included in Part A of Schedule III, mercury-switches, glass from cathode-ray tubes and other activated glass and PCB-capacitors, or not contaminated with Schedule II constituents such as cadmium, mercury, lead, polychlorinated biphenyl) or from which these have been removed, to an extent that they do not possess any of the characteristics contained in Part C of Schedule III (note the related entry in Schedule VI, A1180)</p>
B1120	<p>Spent catalysts excluding liquids used as catalysts, containing any of:</p> <p>Transition metals, excluding waste catalysts (spent catalysts, liquid used catalysts or other catalysts) in Part A and Schedule VI:</p> <ul style="list-style-type: none"> - Scandium - Vanadium - Manganese - Cobalt - Copper - Yttrium - Niobium - Hafnium - Titanium - Chromium - Iron - Nickel - Zinc - Zirconium - Molybdenum - Tantalum

(1)	(2)
	<ul style="list-style-type: none"> - Tungsten - Rhenium - Lanthanides (rare earth metals): - Lanthanum - Cerium - Praseodymium - Neodymium - Samarium - Europium - Gadolinium - Terbium - Dysprosium - Holmium - Erbium - Thulium - Ytterbium - Lutetium
B1130	Cleaned spent precious metal bearing catalysts
B1140	Precious metal bearing residues in solid form which contain traces of inorganic cyanides
B1150	Precious metals and alloy wastes (gold, silver, the platinum group but not mercury) in a dispersible form, non-liquid form with appropriate packaging and labelling
B1160	Precious metal ash from the incineration of printed circuit boards (note the related entry in Part A A1150)
B1170	Precious metal ash from the incineration of photographic film
B1180	Waste photographic film containing silver halides and metallic silver
B1190	Waste photographic paper containing silver halides and metallic silver
B1200	Granulated slag arising from the manufacture of iron and steel
B1210	Slag arising from the manufacture of iron and steel including slags as a source of Titanium dioxide and Vanadium
B1220	Slag from zinc production, chemically stabilised, having a high iron content (above 20%) and processed according to industrial specifications mainly for construction
B1230	Mill scale arising from the manufacture of iron and steel
B1240	Copper Oxide mill-scale
B2	Wastes containing principally inorganic constituents, which may contain metals and organic materials
B2010	Wastes from mining operations in non-dispersible form: <ul style="list-style-type: none"> - Natural graphite waste - Slate wastes - Mica wastes - Leucite, nepheline and nepheline syenite waste - Feldspar waste - Fluorspar waste - Silica wastes in solid form excluding those used in foundry operations
B2020	Glass wastes in non-dispersible form <ul style="list-style-type: none"> - Cullet and other waste and scrap of glass except for glass from cathode-ray tubes and other activated glasses
B2030	Ceramic wastes in non-dispersible form: <ul style="list-style-type: none"> - Cermet wastes and scrap (metal ceramic composites) - Ceramic based fibres
B2040	Other wastes containing principally inorganic constituents: <ul style="list-style-type: none"> - Partially refined calcium sulphate produced from flue gas desulphurization (FGD) - Waste gypsum wallboard or plasterboard arising from the demolition of buildings

(1)	(2)
	<ul style="list-style-type: none"> - Slag from copper production, chemically stabilized, having a high iron content (above 20%) and processed according to industrial specifications mainly for construction and abrasive applications - Sulphur in solid form - Limestone from production of calcium cyanamide (pH<9) - Sodium, potassium, calcium chlorides - Carborundum (silicon carbide) - Broken concrete - Lithium-tantalum and lithium-niobium containing glass scraps
B2060	Spent activated carbon not containing any of Schedule II constituents to the extent they exhibit Part C characteristics, for example, carbon resulting from the treatment of potable water and processes of the food industry and vitamin production (note the related entry in Part A A4160)
B2070	Calcium fluoride sludge
B2080	Waste gypsum arising from chemical industry processes not included in Schedule VI (note the related entry in A2040)
B2090	Waste anode butts from steel or aluminium production made of petroleum coke or bitumen and cleaned to normal industry specifications (excluding anode butts from chlor alkali electrolyses and from metallurgical industry)
B2100	Waste hydrates of aluminium and waste alumina and residues from alumina production, excluding such materials used for gas cleaning, flocculation or filtration processes
B2130	Bituminous material (asphalt waste) from road construction and maintenance, not containing tar (note the related entry in Schedule VI, A3200)
B3	Wastes containing principally organic constituents, which may contain metals and inorganic materials
B3027	Self-adhesive label laminate waste containing raw materials used in label material production
B3030	<p>Textile wastes</p> <p>The following materials, provided they are not mixed with other wastes and are prepared to a specification:</p> <ul style="list-style-type: none"> - Silk waste (including cocoons unsuitable for reeling, yarn waste and garnetted stock) <ul style="list-style-type: none"> • not carded or combed • other - Waste of wool or of fine or coarse animal hair, including yarn waste but excluding garnetted stock <ul style="list-style-type: none"> • noils of wool or of fine animal hair • other waste of wool or of fine animal hair • waste of coarse animal hair - Cotton waste (including yarn waste and garnetted stock) <ul style="list-style-type: none"> • yarn waste (including thread waste) • garnetted stock • other - Flax tow and waste - Tow and waste (including yarn waste and garnetted stock) of true hemp (<i>Cannabis sativa</i> L.) - Tow and waste (including yarn waste and garnetted stock) of jute and other textile bast fibres (excluding flax, true hemp and ramie) - Tow and waste (including yarn waste and garnetted stock) of sisal