

## Ministry of Environment & Forests

### NOTIFICATION

New Delhi, the 6<sup>th</sup> January, 2000.

**S.O. 24(E).**- Whereas a notification of the Government of India in the Ministry of Environment and Forests was published in the gazette of India, Extraordinary, Part II- Section 3, Sub-section (ii) vide No.S.O.10 (E) dated 8<sup>th</sup> January, 1999 under powers conferred by sections 6, 8 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), inviting objections from persons likely to be affected within a period of sixty days from the date of publication of the notification with regard to the Government's intention to amend the Hazardous Wastes (Management and Handling) Rules, 1989.

And, whereas, objections received within the period were duly concerned by the Central Government;

Now, therefore, in exercise of the powers conferred by section 6, 8, 25 of the Environment (Protection) Act, 1986 the Central Government hereby notifies the amendments to the Hazardous Wastes (Management and Handling) Rules, 1989.

#### **Hazardous Wastes (Management and Handling) Amendment Rules, 2000**

1. (1) These rules may be called the Hazardous Wastes (Management and Handling) Amendment Rules, 2000;
2. They shall come into force on the date of their publication in the official Gazette;
1. In the Hazardous Wastes (Management and Handling) Rules, 1989, ( herein after referred to as the said rules), in rule 2; -
  - a. after the words " These rules shall apply to" , the words " the handling of " will be inserted;
  - b. after the words "as specified in", the word "schedule" shall be substituted by the word "schedules".
3. In rule 3 of the said rules; -
  - (a) for sub-rule (i), the following sub-rule shall be substituted namely:-

"(i) Hazardous Wastes means,-

    - (a) Waste Substances which are generated in the process indicated in column-2 of Schedule-1 and consists of wholly or partly of the waste substances referred to in column - 3 of the same schedule;
    - (b) Waste substances which consists wholly or partly of substances indicated in Schedule-2, unless the concentration of the substances is less than the limit indicated in the same schedule: and

(c) Waste substances indicated in Part-A, **List 'A' and 'B'** of Schedule -3 **applicable only to rule 12, 13 and 14** unless they do not possess any of the hazardous characteristics in Part-B of the same schedule.

(b) after sub- rule (p), the following sub-rules, shall be inserted namely:-

"(q) 'disposal' means deposit, treatment, storage and recovery of any hazardous wastes;

(r) 'manifest' means transporting document originated and signed by the occupier in accordance with rule 7(4) and 7(5);

(s) 'State Government' means State Government and in relation to Union Territory the Administrator thereof appointed under Article 239 of the Constitution;

(t) 'storage' means keeping hazardous wastes for a temporary period, at the end of which the hazardous waste is treated and disposed off;

(u) 'transport' means movement of hazardous waste by air, rail, road or water;

(v) 'transporter' means a person engaged in the off-site transportation of hazardous waste by air, rail, road or water;

(w) 'treatment' means a method, technique or process, designed to change the physical, chemical or biological characteristics or composition of any hazardous waste so as to render such wastes harmless;

(x) "environmentally sound management of hazardous wastes" means taking all steps to ensure that the hazardous wastes are managed in a manner which will protect human health and the environment against the adverse effects which may result from such wastes;

(y) "illegal traffic" means any transboundary movement of hazardous wastes as specified in rule 15;"

(c) Sub-rule (q) shall be re-lettered as sub-rule "**(z)**".

4. In rule 4 of the said rules:-

- a. for the heading "4. Responsibility of the occupier for handling of wastes", the words, "4. Responsibility of the occupier and operator of a facility for handling of the wastes " shall be substituted;

b. for sub-rule (1), the following sub-rule shall be inserted, namely:-

"(1) The occupier and the operator of a facility shall be responsible for proper collection, reception , treatment, storage and disposal of hazardous wastes listed in Schedule 1,2 and 3."

(c) after sub-rule (2), the following sub-rule shall be inserted, namely:-

"(3) It shall be the responsibility of the occupier and the operator of a facility, to take all steps to ensure that the wastes listed in schedules -1, 2 and 3 are properly handled, and disposed of without any adverse effects to the environment."

4. After rule 4, the following rule shall be inserted, namely:-

"4A. Duties of the occupier and operator of a facility: It shall be the duty of the occupier and the operator of a facility to take adequate steps while handling hazardous waste to,-

- i. Contain contaminants and prevent accidents and limit their consequences on human and the environment; and
- ii. provide persons working on the site with information, training and equipment necessary to ensure their safety.

4B. Duties of the Authority: Subject to the provisions of these rules, the authority shall also perform duties as specified in Column 3 of Schedule 4."

4. In rule 5 of the said rules :-

a. In sub-rule (2), (3) (4) and (7) for the words "State Pollution Control Board" the words "Member-Secretary, State Pollution Control Board or any officer designated by the Board" shall be substituted;

b. in sub-rule (2) and sub-rule (3) after the words "Form 1" the following shall be inserted, namely:-

"along with a sum of rupees **seven** thousand five hundred only for processing application for authorization and analysis fee, if required, as prescribed under the Environment (Protection) Act, 1986";

c. after sub-rule (4), the following sub-rule shall be inserted, namely:-

"(4A) The authorisation application complete in all respects shall be processed by the State Pollution Control Boards within ninety days of the receipt of such application";

**(d) in sub-rule (6) (i) for the words "a period of two years from" the words "for a period of five years from" shall be substituted.**

(e) after sub-rule (7), the following sub-rule shall be inserted, namely:-

"(8) The Member-Secretary, State Pollution Control Board or any officer designated by the Board shall renew the authorisation granted under sub rule (6), after examining each case on merit, subject to the following, -

- i. on submission of annual returns by the occupier or operator of facility in Form 4;
- ii. **On steps taken, wherever feasible, for reduction in the waste generated or recycled or reused;**
- iii. on fulfillment of conditions prescribed in the authorisation regarding management in an environmentally sound manner of wastes; and

(iv) on remittance of a processing application fee **and** analysis fee, as the case may be."

7. In Rule 7 of the said rules, -

a. for sub-rule (1), the following shall be substituted, namely:-

"(1) The occupier or operator of a facility shall ensure that the hazardous wastes are packaged, based on the composition in a manner suitable for handling, storage and transport and the labelling and packaging shall be easily visible and be able to withstand physical conditions and climatic factors;"

(b) or sub-rule (2), the following sub-rule shall be substituted, namely:-

"(2) Packaging, labelling and transport of hazardous wastes shall be in accordance with the provisions of the rules made by the Central Government under the Motor Vehicles Act, 1988 and other guidelines issued from time to time"  
;

( c) after sub-rule (2), the following sub-rules shall be inserted, namely:-

"(3) All hazardous waste containers shall be provided with a general label as given in Form 8".

(4) No transporter shall accept hazardous wastes from an occupier for disposal unless it is accompanied by five copies of the manifest (Form 9) as per the colour codes. The transporter shall give a copy of the manifest signed and dated to the occupier and retain the remaining four copies to be used as prescribed in sub- rule (5).

(5) Occupier shall provide the transporter with six copies of the manifest as per the colour codes indicated below:

Copy 1(White) forwarded to the Pollution Control Board by the occupier

Copy 2(Light Yellow) signed by the transporter

and retained by the occupier.

Copy 3 (Pink) retained by the operator of a facility.

Copy 4(Orange) returned to the transporter by the operator of facility after accepting waste.

Copy 5 (green) forward to Pollution Control Board

Copy 6 (Blue) returned to the occupier by the

operator of the facility after disposal.

1. The occupier shall obtain necessary no-objection certificate from State Pollution Control Boards in the respective states involved in case of any inter and intra State transport of hazardous wastes;
2. The occupier shall provide the transporter with relevant information in Form 10,

regarding the hazardous nature of the wastes and measures to be taken in case of an emergency."

8. In the said rules, for rule 8, the following rule, shall be substituted, namely:-

"8. Disposal Sites:- (1) The occupier or any **operator of a facility** shall be responsible for identifying sites for establishing hazardous wastes disposal facility;

1. The State Government, **operator of a facility** or any association of occupiers shall identify sites for common hazardous wastes disposal facility in the state;
2. The State Government, occupier or any association shall after preliminary impact assessment studies identify possible sites for disposal facility. They shall then undertake an Environmental Impact Assessment of these sites for selecting an appropriate site for hazardous waste disposal facility;
3. The occupier or any association after identification as prescribed in sub-rule (3) shall inform the State Government to take necessary action for notifying of the site;
4. The State Government shall after identification or on receipt of information regarding identification by such occupier or any such association shall cause a public notice inviting objections and suggestions within thirty days;
5. The state Government shall on receipt of any objection conduct a public hearing as per the procedure notified for Environmental Impact Assessment;
6. The state Government shall then, acquire or inform such occupier or any such association to acquire the site before notifying the same. It shall also undertake to compile and publish periodically an inventory of such disposal sites in the state;"

9. After rule 8 of the said rules, the following rules shall be inserted, namely,-

"8A. Design and setting up of disposal facility:- (1) The occupier, any association or operator of a facility, as the case may be shall design and set up disposal facility as per the guidelines issued by the Central Government or the State Government as the case may be;

1. The occupier, any association or operator, shall before setting up a disposal facility get the design and the layout

of the facility approved by **the State Pollution Control Board;**

2. The State Pollution Control Board shall monitor the setting up and operation of a facility regularly.

8B. Operation and closure of landfill site: (1) The occupier or the operator as the case may be, shall be responsible for safe and environmentally sound operation of the facility as per design approved **under Rule 8A by the State Pollution Control Board;**

1. The occupier or the operator shall ensure that the closure of the landfill is as per the design **approved under Rule 8A by the State Pollution Control Board."**

10. For rule-11 of the said rules, the following rule shall be substituted, namely, -

"11 - Import and Export of Hazardous Wastes for dumping **and disposal**: Import of hazardous wastes from any country to India and export of hazardous wastes from India to any country for dumping **or disposal** shall not be permitted."

11. After rule 11, the following rules shall be inserted, namely, -

"12. Import and Export of Hazardous Wastes for recycling and reuse - (1) Import and/or export of hazardous wastes **rule 3(i)(c)** shall only be permitted as raw material for

**recycling** or reuse;

1. The Ministry of Environment and Forests shall be the nodal Ministry to deal with transboundary movement of hazardous waste;
2. For regulation of export and import the authorities mentioned in Schedule 4 shall be responsible;
3. The decision of the Central Government in respect of grant of permission for import or export shall be final;
4. Any occupier importing or exporting hazardous waste shall provide detailed information in Form 7A to the Customs authorities.
5. Any occupier exporting or importing hazardous waste from or to India shall comply with the articles of the Basel Convention to which the Central Government is a signatory."

13. Import of Hazardous Waste: (1) Every occupier importing hazardous waste shall apply to the State Pollution Control Board, one hundred twenty days in advance in Form-6 for permission to import along with a minimum fee of rupees thirty thousand payable to Ministry

of Environment and Forests, Govt. of India **for imports upto five hundred metric tonnes** and for every **additional five hundred metric tonnes or part thereof of waste imported an additional sum of rupees five thousand will be payable;**

1. The State Pollution Control Board shall examine the application received from the occupier within thirty days and forward the application with recommendation and requisite stipulations for safe transport, storage and processing, to the Ministry of Environment and Forests;
2. The Ministry of Environment and Forests, Government of India will examine the application received from the State Pollution Control Board and after satisfying itself will grant permission for imports subject to the following:-
  - a. environmentally friendly/ appropriate technology used for re-processing;
  - b. the capability of the importer to handle and reprocess hazardous wastes in an environmentally sound manner;
  - c. presence of adequate facility for treatment and disposal of wastes generated; and
  - d. approvals, no objection certificates and authorisations from all concerned authorities; and
  - e. remittance of a processing application fee;
1. The Ministry of Environment & Forests, Government of India, shall forward a copy of the permission granted, to the Central Pollution Control Board, the State Pollution Control Board and the concerned Port and Customs authorities for ensuring compliance of the conditions of imports **and to take appropriate steps for safe handling of the waste at the time of off-loading;**
2. An application for licence to the Directorate General of Foreign Trade for import shall be accompanied with the permission granted by the Ministry of Environment and Forests, Government of India under sub-rule (3) to the importer and an authenticated copy of Form 7 of the Exporter under sub rule (3) of rule 14;

3. The Port and Custom authorities shall ensure that the shipping document is accompanied with an authenticated copy of Form 7 and the test report **from an accredited laboratory** of analysis of the hazardous waste shipped;
4. The occupier having valid permission to import shall inform the State and Central Pollution Control Board and the Port authorities of the arrival of the consignment of hazardous wastes ten days in advance;
5. The occupier importing hazardous waste shall maintain the records of hazardous waste imports as specified in Form 6A and the record so maintained shall be available for inspection;

14. Export of Hazardous Waste: (1) The exporting country or the exporter as the case may be, of hazardous waste shall apply ninety days in advance in Form 7 to the Ministry of Environment and Forests, Government of India, seeking permission for the proposed export and transboundary movement;

1. The Ministry of Environment and Forests, Government of India, on receipt of such Form 7 from an exporter or an exporting country shall examine the case on merit and grant or refuse permission for export to India;
2. The Ministry of Environment and Forests, shall communicate the grant of permission by authentication on Form 7 to the exporter and the exporting country and endorse a copy of the same to the Central Pollution Control Board and the State Pollution Control Board;
3. The exporter shall ensure that no consignment is shipped prior to the requisite authentication being received. The exporter shall also ensure that the shipping document is accompanied with Form 7A, an authenticated copy of Form 7 and an authenticated copy of the test report **from an accredited laboratory** of analysis of the hazardous waste;
4. The occupier, exporting hazardous waste to any other country shall seek permission from the competent authority of that country prior to any shipment;
5. Every occupier exporting hazardous waste shall inform the Central Government of the permission sought for exporting, permission granted for export and details of the export in Form 7.

15. Illegal Traffic: (1) The movement of hazardous wastes from or to the country shall be considered illegal:

- i. if it is without prior permission of the Central Government; or
- ii. if the permission has been obtained through falsification, mis- representation or fraud; or
- iii. it does not conform to the shipping details provided in the document;

(2) In case of illegal movement, the hazardous wastes in question;

- i. shall be shipped back **within thirty days** either to the exporter or to the exporting country;
- ii. shall be disposed of within thirty days from the date of off-loading **subject to inability to comply with Sub-rule 2(i) above.**

1. In case of illegal transboundary movement of hazardous wastes, the occupier exporting hazardous waste from the country or the exporter exporting hazardous waste to the country and importer importing hazardous waste into the country shall ensure that the wastes in question is safely stored and shipped or disposed off in an environmentally sound manner within thirty days from the date of off-loading;

4. The exporting country shall bear the costs incurred for the disposal of such wastes.

1. Liability of the occupier, transporter and operator of a facility: (1) The occupier, **transporter** and operator of a facility shall be liable for damages caused to the environment resulting due to improper handling and disposal of hazardous waste listed in schedule 1, 2 and 3;

1. The occupier and operator of a facility shall also be liable to reinstate or restore damaged or destroyed elements of the environment;
2. The occupier and operator of a facility shall be liable to pay a fine as levied by the State Pollution Control Board **with the approval of** the Central Pollution Control Board for

any violation of the provisions **under** these rules.

**17. Transitional provisions – where;-**

- a. On the date of coming into operation of these rules, an occupier handling hazardous wastes who is required to comply with the provisions of these rules, it will be sufficient compliance if the occupier and the authorities do so within three months after the date of coming into force of these rules;
- b. **State Pollution Control Boards and Pollution Control Committees are required to oversee the compliance."**

**13.** For rule-18 of the said rules, the following rule shall be substituted, namely;-

"18. Appeal - (1) An appeal shall lie, against any order of grant or refusal of an authorisation by the Member-Secretary, State Pollution Control Board or any officer designated by the Board to the Secretary, Department of Environment of the State Government by whatever name called.

- 1. Every appeal shall be in writing and shall be accompanied by a copy of the order appealed against and shall be presented within thirty days of the receipt of the order passed.

**14.** In Form 1 of the said rules, at the bottom of item 8, the following words shall be inserted, -

"Place

Signature

Date

Designation"

**15.** In Form 2 of the said rules, for the words "(Authorisation for operating a facility for collection , reception, treatment, storage, transport and disposal of hazardous wastes)" the words "Form for Grant of authorisation for occupier or operator handling hazardous wastes." shall be substituted.

**16.** In Form 3 of the said rules, after item 7 which relates to heading "data on environmental surveillance", the following shall be inserted, -

"8 details of the hazardous wastes reused and recycled -

Date	Total quantity of hazardous waste generated	Details of hazardous in waste minimisation	Material received	Final quantity of waste generated	Net reduction waste generation
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		activity			quantity and percentage

Place :

Signature

Date :

Designation"

**17.** In Form 4 of the said rules, at the bottom of item 3, the following words shall be inserted, -

Place :

Signature

Date :

Designation"

**18.** In Form 5 of the said rules, after Item 7 "The steps" taken to prevent the recurrence of such an accident", the following shall be inserted, -

Place :

Signature

Date :

Designation"

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19. For Form 6 of the said rules, the following forms shall be substituted, namely, -

**FORM 6**

[ See Rule 13(1) ]

Application for importing hazardous/recyclable wastes as raw materials

From: .....  
.....  
.....

To : **TO BE MAILED BY IMPORTER**

The Member Secretary,  
State Pollution Control Board

Sir,

I/we apply for 'No Objection' of authorisation under sub-rule (1) of rule 13 of the Hazardous Wastes (Management & Handling) Rules, 1989, amended in 1999 for importing/exporting hazardous/recyclable wastes to use as raw materials.

**FOR OFFICE USE ONLY**

1. Code No. :
2. Whether the unit is situated in a critically

polluted area as identified by the Ministry

of Environment and Forests :

**TO BE FILLED IN BY APPLICANT**

**PART 1 :** (To be filled by **Exporter or a person authorized by the exporter**)

1. Name and Address of the Exporter
2. Details of material (hazardous wastes in the form of raw material) to be exported.

S.No.	Particulars	Six digit Code No.*	Purity expected	Quantity	Whether any special handling requirement?

3. The material permitted shall be fully insured for transit as well as for any accidental occurrence and its cleanup operation.

4. The exported material shall be taken back, if it creates a genuine Environmental hazard or shall take all such measures to treat and dispose in an environmentally benign manner upto the satisfaction of concerned SPCB. All such costs involved in such operation shall be borne by Exporter and/or Importer.

**PART 2: (To be filled in by Importer)**

1. Name and Address :

2. Whether Authorisation is obtained in Form 2 : Yes / No

on application made in Form 1 (**enclose copy**)

3. Details of material to be imported

S.No.	Particulars	Six digit Code No.*	Purity expected	Quantity	Whether any special handling requirement?

\* (Here enter as reference nomenclature, the equivalent six digit code no. from European Waste Catalogue EWC, issued pursuant to the Article 1(a) of Council Directive 75/442/EEC on waste or its equivalent as the case may be)

4. Whether you have received such imported hazardous wastes in the form of raw materials in the past and if yes give details

S.No.	Name of Material	Country of Export	Year	Quantity in tonnes

5. Whether the importer has :

a. Adequate facility to handle imported hazardous waste in the form of his raw material **if yes furnish details.** Yes / No

b. Adequate facility to handle the hazardous wastes generated by the use of such imported hazardous wastes in the form of his raw material Yes / No

- c. Requisite laboratory testing facility Yes / No
- 6. Break-up of the imported material
  - a. The total quantity applied for ..... T
  - a. Out of (a) above, how much quantity after initial in-situ purification, will be available as raw material ..... T
- (c ) Out of (b) above, how much quantity will be converted to be the useful product or co-product ..... T
- 7. Means of Transport (Road, Rail, inland waterway, sea, air) including country of export, transit and import, also point of entry and exit where these have been designated.
- 8. Information on special handling requirements including emergency provision in case of accident.

**(Attach separate sheet)**

9. Undertaking :

I hereby solemnly undertake that

- 1. the full consignment shall be cleared in one lot by arranging authorised transporter under my supervision with due prior intimation to the Board, District Collector and Police station and the imported material shall be admitted in an enclosure especially provided in the premises.
- 2. The material permitted shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
- 3. The record of consumption and fate of the imported material shall be monitored and report sent to the Board every fortnight.
- 4. At every step of consumption of 25, 50, 75 and 100% of the imported material, the situation in the store shall be shown to the Board authority at our cost.
- 5. The hazardous wastes which gets generated in our premises by the use of imported hazardous wastes in the form of raw material, shall be treated and disposed of and only as per conditions of authorisation.
- 6. I/We agree to share the cost and joint to exporter in undertaking the measures as per undertaking given by Exporter at Part A column No.12(3) of this Form 6.<
- 7. 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.

**Exporter**

Date .....

Signature

Place .....

Designation

**Importer**

Date .....

Signature

Place .....

Designation

**FORMS 6A**

[ See Rule 13 (8) ]

( Format for maintaining records of hazardous waste imported and exported)

1. Name and address of the importer:
2. Date and reference number of issuance of permission to import hazardous wastes:
3. Description of hazardous waste:
  - a. Physical form:
  - b. Chemical form:
  - c. Total volume and weight (in kilograms):
  - d. Test report as per Rule 13(6):**
4. Description of storage, treatment and reuse of hazardous waste:
  - a. Date:
  - b. Method of Storage:
  - c. Method of treatment and reuse (give details):

20. For Form 7 of the said rules, the following form shall be substituted, namely, -

**FORM - 7**

See rule -13 (5) 4. (6) 1

**Transboundary Movement of Waste- NOTIFICATION**

1. Exporter (Name & Address):		3. Notification concerning (1):- Notification	N2
		A. (i) Single movement	Recovery operation
Contact person: Tel.:		(ii) General notification (multiple movements)	
Fax/Telex:			
Reason for export:		C. Pre-authorized recovery facility - Yes/No	
2. Importer/Recycler (Name & Address):		4. Total intended number of shipments:	5. Estimated quantity (3):
			Kg
			Liters
Contact person: Tel.:		6. Intended date(s) or period of time for shipment(s)	
Fax/Telex:		9. Method(s) of recycling(4)	
		R Code	
		Technology employed	
7. Intended carrier(s) (name, address(2):		10. Means of transport (4):	
Contact person: Tel.:		11. Packaging type(s) (4):	
Fax/Telex:			
8. Waste generator (s)(Name, address) (2):		12. (i) Designation and complete chemical composition o f waste(attach details)	
Contact Person Tel.:		(it) Special handling requirements	
Fax/Telex			
Site of generation & Process:		13. Physical characteristics (4):	
14. Waste identification code		16. Y-number (4):	
Basel No:	OECD No.:		

UN No. :	ITC (HS)	17. H-number (4):
Customs code (H.S.):	Other (specify): I	
15, OECD classification (1): amber. E]	Red [ ] and number:	18.(i) UN identification N <sup>2</sup> (ii) UN class (4):
Other [ ]		UN shipping name:
* (attach details)		
19. Concerned states, code number of competent authorities, and specific points of entry and exit:		
State of export	States of transit State of import	
20. Customs Aces of entry and/or departure		2 1. Exporter's/Generator's declaration:
Entry:		I certify that the information is complete and
		Correct to my best knowledge. I also certify that
Departure		Legal y-enforceable written contractual obligations
		have been entered into and that any applicable
		insurance or other financial guarantees are or shall be
		in force covering the transboundary movement.
22. Number of annexes attached		Name: Signature:
		Date:
<b>FOR USE BY COMPETENT AUTHORITIES</b>		
23. To be completed by competent authority of- import		24. Consent to the movement provided by the competent authority
Notification received on:	- transit (Basel)	of(country):
Acknowledgement sent on:		Consent given on: Consent expires on:
		Specific conditions (1): [ ] Yes, see block 24 overleaf annex
Name of competent authority,		[ ] No

stamp		
And/or signature:		Name of competent authority,
		Stamp and/or signature:

- (1) Enter X in appropriate box (2) Attach list if more than one (3) Attach detailed list of multiple shipment  
(4) See codes on the reverse

List of abbreviations used in the Movement Document

RECOVERY OPERATIONS (Block 9)		
R I 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 RIO Land treatment resulting in benefit to agriculture or ecological improvement R11 Uses of residual materials obtained from any of the operations numbered R I to 10 R12 Exchange of wastes for submission to any of the operations numbered RI to R I I R13 Accumulation of material intended for any operation numbered RI to RI 2		
MEANS OF TRANSPORT	PACKAGING TYPES (Block 16)	H NUMBER AND LIN CLASS (Block 17)
(Block 8-10)		
R = Road	1. Drum	LIN Class H No. Designation

	2. Wooden barrel	
T = Train/Rail	3. Jerrican	I H I Explosive
	4. Box	3 H3 Inflammable liquids
S = Sea	5. Bag	4.1 H4.1 Inflammable solids
	6. Composite packaging	4.2 H4.2 Substances or wastes liable to Air
A= Air	7. Pressure receptacle	spontaneous combustion
	8. Bulk	4.3 H4.3 Substances or wastes which, in W
W= Inland Waterways	9. Other (specify)	contact with water emit
		inflammable gases
PHYSICAL CHARACTERISTICS (Block 12)		5.1 H5.1 Oxidizing
		5.2 H5.2 Organic peroxides
1. Powdery/powder 5. Liquid		6.1 H6.1 Poisanous (acute)
2. Solid 6. Gaseous		6.2 H6.2 Infectious substances
3. Viscous/paste 7. Other (specify)		8 H8 Corrosives
4. <b>Sludge</b>		9 H10 Liberation <i>of</i> toxic gases in
		Contact with air or water
		9 H11 Toxic (delayed or chronic)
		9 H12 Ecotoxic
		9 H13 Capable. by any means. after disposal <i>of</i>

	yielding another material e.g. leachate, which
	Possesses any <i>of</i> the characteristics listed above

**FOR USE BY CUSTOMS OFFICES**

2~. COUNTRY OF EXPORT/DISPATCH OR	27. STAMPS OF CUSTOMS OFFICES OF TRANSIT COUNTRIES			
CUSTOMS OFFICE OF EIXIT	Name <i>of</i> country:		Name <i>of</i> Country:	
The waste described overleaf has left the country				
on:	Entry	Departure	Entry	Departure
Stamp:				
Signature:				
26. COUNTRY OF IMPORT/DESTINATION	Name of Country		Name of Country	
described overleaf has entered the  The waste country on:				
	Entry	Departure	Entry	Departure
Stamp:				
Signature:				

**FORM - 7A**

[ See rule - 12 (5) & 14(4) ]

**Transboundary Movement of Waste - MOVEMENT DOCUMENT**

I.A Exporter (name, address):		3. Corresponding to	4. Serial Number
		Notification N'	of shipment:
Contact person: Tel.:		Movement subject of(2) single notification	
Fax/Telex:			general notification
ii) Waste Generator (name, address)(1):		8. Disposer (name, address):	
Contact person Tel		Contact person	Tel.:
Fax/Telex:			Fax/Telex:
Site of generation:		Actual site of disposal:	
2. Importer recycler (name, address):		9. Method(s) of recovery (4):	
		R code:	
		Technology employed:	
Contact person Tel.:			
Fax/Telex:		*(Attach details if necessary	
5. Ist Carrier (Name, address):	6. 2"d Carrier (name, address)(4):	7. Last Carrier (name, address):	
Registration N2:	Registration N':	Registration N2:	
lei: Fax/Telex: Tel.:	Fax/Telex: Tel.:	Fax/Telex:	
8. Identity of means of transport (3)	9. Identity of means of transport (3)	10. Identity of means of transport (3)	

Date of transfer:	Date of transfer:	Date of transfer:
Signature of Carrier's representative	Signature of Carrier's representative	Signature of Carrier's representative
11. Designation and chemical composition of the waste		12. Physical characteristics (3):
		13. Actual quantity
		Kg. Liter
14. Waste identification code		16. Packaging
		Type (3): Number:
Bales No: OECD No.		
UN No. : ITC (HS)		17. UN Classification:
Customs code (H.S.):	Other (specify):	UN shipping name:
		LIN Identification No.:
15. OECD Classification (2): amber	Red EJ and Number:	UN class (3):
Other		H Number (3): Y No.:
(attach details)		
18. Special handling requirements	20. Exporter's declaration,	
	I certify that the information in blocks I to 19 above is complete and correct to my best knowledge. I also certify that legally-enforceable written contractual obligations have been entered into, that any applicable insurance or other financial guarantees are in force covering the transboundary movement and that all necessary authorizations have been	

	received from the competent authorities of the States concerned.	
	Date :	Signature:
19. Actual date of shipment	Name:	
<b>TO BE COMPLETED BY IMPORTER/RECYCLER</b>		
21. Shipment received by Importer/Recycler		23. I certify that the Recycling of the
Quantity received:	Kg. Liters accepted	waste described above has been
Date :		completed.
Name: Signature: rejected (x)		
		Date:
		Name:
22. Shipment received at Recycler		
Quantity received:	Kg. Liters accepted 0	Signature & stamp-
Date:	C3	
Name Signature:	rejected (x)	
Approximate date of recycler		
Method of recycling		

(1) Attach list, if more than one (2) Enter X in appropriate box (3) See codes on the reverse (x) Immediately contact Competent Authority.

(4) If more than three carriers, attach information as required in blocks 6 and 11.

**List of abbreviations used in the notification**

RECOVERY OPERATIONS (Block 9)			
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 w ecological improvement			
R11 Uses of residual materials obtained from any of the operations numbered RI to RIO			
R12 Exchange of wastes for submission to any of the operations numbered RI to RI I			
R13 Accumulation of material intended for any operation numbered RI to PL12			
MEANS OF TRANSPORT (Block 10)	PACKAGING TYPES (Block 11)	H NUMBER (Block 17) & UN CLASS (Block 18)	
R = Road	1. Drum	UN Class H Number	Designation
	2. Wooden barrel		
T = Train/Rail	3. Jerrican	I H I	Explosive
	4. Box	3 143	Inflammable Liquids
S = Sea	5. Bag	4.1 H4.1	Inflammable solids
	6. Composite packaging	4.2 H4.2	Substances or wastes liable
A Air	7. Pressure <b>receptacle</b>		to spontaneous combustion-
	8. Bulk	4.3 H4.3	Substances or wastes
W Inland Waterways	9. Other (specify)		which, in contact with

		Water, emit inflammable
		Gases
	5.1 H5.1	Oxidizing
PHYSICL CHARACTERISTICS (Block 13)	5.2 H5.2	Organic peroxides
	6.1 H6.1	Poisonous (acute)
1. Powdery/ powder 7. Other (specify)	6.2 H6.2	Infectious substances
2. Solid	8 H8	Corrosives
3. Viscous/paste	9 H10	Liberation of toxic gases in
4. Sludgy		contact with air or water
5. Liquid	9 H11	Toxic (delayed or chronic).
6. Gaseous	9 H12	Ecotoxic
	9 H13	Capable by any
		means after
		disposal of yielding
		another material e.g.
		leachate, which
		possesses any of the
		characteristics listed
		above.

*Y numbers (block 16) refer to categories of waste listed in Annex I and II of the Basel Convention, as well as more detailed information can be found in an instruction Manual available from the*

25. SPECIFIC CONDITIONS ON CONSENTING TO THE MOVEMENT

21. For schedule of the said rules, the following schedules shall be inserted, namely,

**SCHEDULE - 1**

[ See rule 3(i)(a) ]

List of processes generating hazardous wastes

S.No.	Processes	Waste streams	
1.	Petrochemical processes and pyrolytic operations	1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10  1.11	Oven debris Oil -containing bleaching earth Acid tar Sulphur-containing residue from sulphur removal oil-containing sludge oil emulsion oil-containing acid tar residue made with coal tar sludge from waste water purification residual liquid and paste-like organic substances made with aromatic, aliphatic and naphenic hydrocarbons residue from alkali wash of fuels
2.	Natural gas production	2.1 2.2 2.3	mercury-containing sludge mercury-containing filter material sulphur-containing residues
3.	Production or use of zinc, <b>zinc oxide</b>	3.1	zinc ashes
<b>3.bis</b>	<b>Production and use of copper oxide, copper including Electro-refining and Electro-winning operations</b>	<b>3.1bis 3.2bis 3.3bis 3.4bis</b>	<b>Dust and residues from gas cleaning system of copper smelters Spent electrolytic solutions from copper, electrorefining and electrowinning operations Wastes sludges, excluding anode slimes from electrolyte purification systems Other exhaust dust.</b>
4.	Production or use of lead	4.1 4.2 4.3	lead ashes lead slags lead-containing filter material

5.	Production or use of cadmium	5.1	cadmium-containing filter material
6.	Production or use of arsenic	6.1	arsenic-containing filter material
7.	Production of cast iron	7.1	<b>cupola oven dust*</b>
8.	Production of crude <b>iron</b> and steel with oxy-steel converters or electro-ovens	8.1 8.2	<b>Process dust Benzol Acid Sludge</b>
9.	Production of aluminium (primary or secondary production)	<b>9.1</b> <b>9.2</b> <b>9.3</b>	<b>filtered</b> material cathode residues overn debris
10.	Non-ferro metallurgical processes	10.1	heavy metal-containing oven debris arsenic chalk
11.	Hardening of steel	11.1 11.2	cyanide-, nitrate-, or nitrite-containing sludge hardening salt
12.	Production of asbestos or asbestos-containing materials <b>and or products</b>	12.1	asbestos-containing residue
13.	Production of chlorine by means of <b>mercury/</b> diaphragm-electrolyses process	13.1 <b>13.2</b>	Asbestos-containing <b>discards</b> <b>Mercury bearing sludge</b>
14.	Phenol production	14.1	Phenol mixture
15.	Metalworking	15.1 15.2	Selenium-containing metal waste Beryllium-containing metal waste
16.	Metal surface treatment, such as etching, staining, polishing, galvanising, cleaning, degreasing and hot dip galvanising	16.1 16.2 16.3  16.4 16.5 16.6 16.7 16.8	Acid, acid residue or acid mixture Alkali, alkali residue or alkali mixture Galvanic bath and (half-) concentrate made with sulphide, chromium (VI), cyanide, copper, zinc, cadmium, nickel or tin Halogen-free sludge from a bath which used organic solvents Halogen-containing sludge from a bath with organic solvents Phosphating sludge Halogen-containing organic degreasing bath sludge from staining bath
17.	Treatment of <b>galvanising</b> and similar with baths and water purification in metal surface treatment	17.1 17.2  17.3	metal hydroxide sludge chromium, cadmium copper, zinc, nickel or silver heavy metal-containing eluate from ion exchangers heavy metal-containing half-concentrates from membrane systems
18.	Production of acids <b>and fertilizer</b>	18.1	acid-containing residues

		<b>18.2 18.3</b>	<b>spent catalyst Sulphur containing residue</b>
19.	Production or use of solvents	19.1 19.2 19.3 19.4 19.5 19.6 19.7	contaminated halogen-free aromatic, aliphatic or naphthenic solvents contaminated halogen-free solvents made with phenols, ketones, ethers, acetates, alcohols, or glycols contaminated halogen-containing aromatic, aliphatic or naphthenic solvents contaminated halogen-containing solvents made with phenols contaminated solvents or mixtures of solvents made with organic nitrogen containing aromatics, naphthenes of aliphatics contaminated solvents or mixtures of solvents made with organic sulphur compounds distillation residue
20.	Removal of coatings from ships, bridges and locks, electricity pylons and road markings by blasting	20.1	blasting material contaminated with coating residues
21.	Production or use of coatings paints, lacquers, varnishes and plastics, and of inks	21.1 21.2	residues of coatings or such as inks if not completely hardened sludge from waste water purification in production processes
22.	Production or use of glues, cements, adhesive and resins	22.1 22.2	glue, cement or adhesive residue (not made with vegetable or animal materials) if not completely dried out resin oil residue
<b>22bis.</b>	<b>Production or use of dyes, dye-intermediates and pigments</b>	<b>22.1bis 22.2bis</b>	<b>Process sludge Sludge from waste water treatment</b>
23.	Production or use of latex	23.1	latex or latex emulsion residue if not completely polymerised or coagulated
24.	Production or use of paint removers	24.1	paint remover residue
25.	Printing and copying with liquid toner	25.1 25.2 25.3 25.4 25.5 25.6 25.7 25.8	printing ink residue silkscreen printing ink residue lacquer residue liquid toner residue residue of cleaning agents made with organic solvents etching fluid residue dispersive oil residue oxidising agent residue

26.	Production or use of photo-chemicals	26.1 26.2 26.3	developer residue fixer residue bleaching fixer residue
27.	Production or use of organic peroxides	27.1	organic peroxide residue
28.	Production or use of halogen-containing hydrocarbons or of aromatic, aliphatic or naphthenic hydrocarbons	28.1 28.2	residue of fluid or pasty organic materials made with halogen-containing hydrocarbons residue of fluid or pasty organic materials made with aromatic, aliphatic or naphthenic hydrocarbons
29.	Production or use of organic, nitrogen or oxygen compounds	29.1	residue of fluid or pasty organic materials made with oxygen compounds organic nitrogen or oxygen compounds (other than vegetable or animal carbohydrates, proteins, fats and fatty acids)
30.	Production or use of materials made with silicones	30.1 30.2	silicone oil residue silicone-containing residues
31.	Production of canvas and textiles	31.1	textile chemical residue
32.	Production or use of plastics or raw materials for them	32.1 32.2 32.3 32.4 32.5 32.6 32.7 32.8 32.9	halogen-free residue of additives for plastics (e.g. dyestuffs, stabilisers, or flame retardants) halogen-containing residue of additives for plastics halogen-free residue of plasticisers for plastics halogen-containing residue of plasticisers for plastics residue from the preparation of vinylchloride monomer residue from the preparation of acrylonitrile monomer residue of liquid or pastry rubber emulsion or rubber solution if not polymerised sludge from waste water purification from rubber production if not polymerised PVC-containing residues if not polymerised
33.	Production of cosmetics	33.1	Residue of chemical raw materials and additives (other than vegetable and animal carbohydrates, proteins, fats and fatty acids)
34.	Production, of pharmaceuticals	34.1	Residues from the production of medicines (other than vegetable and animal carbohydrates, proteins, fats and fatty acids)
35.	Production, formulation of pesticides	35.1 35.2 35.3	pesticide residues sludge from waste water treatment hexa or hexa-containing residue made with

		35.4	hexa-chlorocyclohexane or hexachloro benzene residues from the use of pesticides
36.	Production, formulation or use of wood preservatives	36.1 36.2 36.3 36.4	production and formulation residue sludge from the waste water purification residue from the use of wood preservatives wood alkali bath
37.	Cleaning, emptying and maintenance of tanks and separators of vessels vehicles and of mobile and stationary storage tanks, washing water	37.1 37.2 37.3	oil-containing cargo residue, washing water and sludge chemical-containing cargo residue and sludge oil-water sludge mixture and oil-containing air filters from oil, fat, sludge or petrol separation
38.	Cleaning of barrels which have held chemical substances	38.1 38.2	chemical-containing residue from barrel cleaning sludge from waste water purification
39.	Purification procession for air and water	39.1 39.2 39.3 39.4	sludge from waste water treatment from artificial fertilizer production sludge from the treatment of waste water containing hydrofluoric acid heavy metal-containing residue from used-ion exchange material in the water purification flue gas cleaning residue
40.	Purification procession for organic water	40.1	filters and filter material which have organic liquids on them, e.g. mineral oil, synthetic oil and organic chlorine compounds
41.	Waste treatment processes, e.g. incineration, distillation and separation and concentration techniques	41.1 41.2 41.3 41.4 41.5	sludge from the incineration of exclusively chemical waste fly ash from incineration of <b>hazardous</b> waste, except exclusively communal sewage sludge, flue gas cleaning residue battery acid distillation residue from the work-up of contaminated halogen-free organic solvents distillation residue from the work-up of contaminated halogen-containing organic solvents
42.	<b>Tanning of leather</b>	42.1 42.2	<b>Chromium (vi) bearing residue</b> <b>Chromium bearing sludge</b>
43.	Performance of maintenance and repair work on vehicles and	43.1 43.2	oil-containing sludge and oil emulsion filters and filter material which have organic liquids on them, e.g. mineral oil,

			synthetic oil and organic chlorine compounds
44.	Every action relating to and every use of lubricating and system oil	44.1 44.2	spent oil other spent lubricating and system oil

**\* Only applicable to Cupola's of capacity more than two metric tonnes**

## SCHEDULE - 2

[ See rule 3(i) (b) ]

### LIST OF WASTE SUBSTANCES WITH CONCENTRATION LIMITS

#### Classes

##### Class A

Concentration limit: **50 mg/kg**

A1 Antimony and antimony compounds

A2 Arsenic and arsenic compounds

A3 beryllium and cadmium compounds

A4 Cadmium and beryllium compounds

A5 Chromium (VI) compounds

A6 Mercury and mercury compounds

A7 Selenium and selenium compounds

A8 Tellurium and tellurium compounds

A9 Thallium and thallium compounds

A10 Inorganic cyanide compounds (cyanides)

A11 Metal carbonyls

A12 Naphthalene

A13 Anthracene

A14 Phenanthrene

A15 Chrysene, benzo(a) anthracene, fluoranthene, benzo(a) pyrene,  
benzo(K)fluoranthene, indeno(1, 2, 3-ed) pyrene and benzo(ghi)perylene

A16 Halogenated fused aromatic rings, e.g. polychlorobiphenyls plus derivatives

A17 Halogenated aromatic compounds

A18 Benzene

A19 Dieldrin, aldrin, and endrin

A20 Organotin compounds

##### Class B

Concentration limit: **5,000 mg/kg**

B1 Chromium (III) compounds

B2 Cobalt compounds

B3 Copper compounds

B4 Lead and lead compounds

B5 Molybdenum compounds

B6 Nickel compounds  
B7 Tin compounds  
B8 Vanadium compounds  
B9 Tungsten compounds  
B10 Silver compounds  
B11 Organic halogen compounds  
B12 Organic phosphorus compounds  
B13 Organic peroxides  
B14 Organic nitro-and nitroso-compounds  
B15 Organic azo-and azo-oxy compounds  
B16 Nitriles  
B17 Amines  
B18 (Iso-and thio-) cyanates  
B19 Phenol and phenolic compounds  
B20 Mercaptans  
B21 Asbestos  
B22 Drilling, cutting, grinding and rolling oil or emulsions thereof  
B23 Halogen-silanes  
B24 Hydrazine(s)  
B25 Fluorine  
B26 Chlorine  
B27 Bromine  
B28 White phosphorus  
B29 Ferro-silicon and alloys  
B30 Manganese-silicon  
B31 Halogen-containing substances which produce acidic vapours on contact with damp air or water, e.g. silicon tetrachloride, aluminum chloride, titanium tetrachloride

### Class C

Concentration limit: **20,000 mg/kg**

C1 Ammonia and ammonium compounds  
C2 Inorganic peroxides  
C3 Barium compounds, except barium sulphate  
C4 Fluorine compounds  
C5 Phosphorus compounds, except the phosphates of aluminum, calcium and iron  
C6 Bromates, (hypo)bromites  
C7 Chlorates, (hypo)chlorites  
C8 Aromatic compounds  
C9 Organic silicon compounds  
C10 Organic sulphur compounds  
C11 Iodates  
C12 Nitrates, nitrites  
C13 Sulphides  
C14 Zinc compounds  
C15 Salts of per-acids

C16 Acid halides, acid amides

C17 Acid anhydrides

### **Class D**

Concentration limit: **50,000 mg/kg**

D1 Sulphur

D2 Inorganic acids

D3 Metal bisulphates

D4 Oxides and hydroxides except those of: hydrogen, carbon, silicon, iron, aluminum, titanium, manganese, magnesium, calcium

D5 Aliphatic and naphthenic hydrocarbons

D6 Organic oxygen compounds

D7 Organic nitrogen compounds

D8 Nitrides

D9 Hydrides

### **Class E**

#### **Regardless of concentration limit**

E.1 Highly flammable substances

E.2 Substances which generate dangerous quantities of highly flammable gases on contact with water or damp air.

\* All on dry weight basis

**Schedule - 3**

[See Rule 3 ( i ) ( c ) ]

**(Part - A)**

**LISTS OF WASTE TO BE APPLICABLE ONLY FOR IMPORTS AND EXPORTS**

**LIST - A**

<b>Basel No.</b>	<b>OECD No.</b>	<b>Description of material</b>	<b>Annex I</b>	<b>Annex III</b>	<b>Customs code</b>
<b>A1</b>		<b>Metal and Metal bearing wastes</b>			
<b>A1010</b>		<b>Metal waste and waste consisting of alloys of the following metals, but excluding such wastes specified on List B</b>			
A1010	AA100	⊗ Mercury (see A1030)	Y 29	6.1,11,12	ex2620.90
A1010	AA070	L Beryllium (see B1020)	Y 20	6.1,11,12	ex2620.90
A1010	AA090	⊗ Arsenic (see A1020)	Y 24	6.1,11,12	ex2620.90
A1010	AA070	L Selenium (see B1020)	Y 25	6.1,11,12	ex2620.90
A1010	AA070	Cadmium (see B1020)	Y 26	6.1,11,12	ex2620.90
A1010	AA070	Antimony (see B1020)	Y 27	6.1,11,12	ex2620.90
A1010	AA070	Tellurium (see B1020)	Y 28	6.1,11,12	ex 2620.90
A1010	AA080	L Thallium (see A1030)	Y 30	6.1,11,12	ex 2620.90

<b>A1020</b>		<b>Waste having as constituents or contaminants, excluding metal wastes in massive form</b>			
A1020	AA070	Beryllium; beryllium compounds (see B1020)	Y 20	6.1,11,12	ex 2620.90
A1020	AA070	Selenium; selenium compounds (see B1020)	Y 25	6.1,11,12	ex 2620.90
A1020	AA070	Cadmium; cadmium compounds (see B1020)	Y 26	6.1,11,12	ex 2620.90
A1020	AA070	Antimony; antimony compounds (see B1020)	Y 27	6.1,11,12	ex 2620.90
A1020	AA070	Tellurium; tellurium compounds (see B1020)	Y 28	6.1,11,12	ex 2620.90
A1020	AA030	Lead; Lead compounds (see B1020)	Y 31	6.1,11,12	ex 2620.20
		<b>End of A 1020</b>			
<b>A1030</b>		<b>Waste having as constituents or contaminants</b>			
A1030	AA090	Arsenic; arsenic compounds (see A1030)	Y 24	6.1,11,12	ex 2804 80
A1030	AA080	Thallium; thallium compounds (see A1030)	Y 30	6.1,11,12	ex 8112 91
A1030	AA100	Mercury; mercury compounds (see	Y 29	6.1,11,12	ex 2805 40

		A1030)			
<b>Basel No.</b>	<b>OECD No.</b>	<b>Description of material</b>	<b>Annex I</b>	<b>Annex III</b>	<b>Customs code</b>
<b>A1040</b>		<b>Wastes having as constituents any of the following</b>			
A1040		Metal carbonyls	Y 19	6.1,11,12	
A1040	AA070	L Hexavalent chromium compounds	Y 21	6.1,11,12	
		<b>End of A 1040</b>			
<b>A1050</b>	AA120	Galvanic sludges	Y 17	6.1,12	
<b>A1060</b>	AA130	Liquors from the pickling of metals	Y17	6.1,12	
<b>A1070</b>	AA140	Leaching residues from zinc processing, dusts and sludges such as jarosite, hematite, goethite, etc.	Y23	12	

<b>A1080</b>	AA020	Waste Zinc residues not included on list B containing lead and cadmium in concentrations sufficient to exhibit hazard characteristics indicated in Part B of this schedule. (see B1080, and B1100)	Y23	4.3, 12	ex 262019 ex2620.1  ex 2817
<b>A1090</b>		Ashes from the incineration of insulated copper wire	Y22	12	
<b>A1100</b>		Dust and residues from gas cleaning systems of copper smelters	Y18 Y22	12	ex 2620.30
<b>A1110</b>		Spent electrolytic solutions from copper electrorefining and electrowinning operations	Y22	12	ex 2620.30
<b>A1120</b>		Wastes sludges, excluding anode slimes, from electrolyte purification systems in copper electrorefining and electrowinning operations	Y!8 Y22	12	ex 2620.30
<b>A1130</b>		Spent etching solutions containing dissolved copper	Y22	12	ex 3824.90

<b>A1140</b>		wastes cupric chloride and copper cyanide catalyst	Y22		ex 2620.30
<b>A1150</b>	AA161	Precious metal ash from incineration of printed circuit boards not included on list 'B'			ex 7112.10

<b>Basel No.</b>	<b>OECD No.</b>	<b>Description of material</b>	<b>Annex I</b>	<b>Annex III</b>	<b>Customs code</b>
<b>A1160</b>	AA170	Lead-acid batteries, whole or crushed	Y31	6.1, 11, 12	
<b>A1170</b>		Unsorted waste batteries excluding mixtures of only List B batteries. Waste batteries not specified on List B containing Schedule 2 constituents to an extent to exhibit hazard characteristics indicated in part B of this schedule. (see B1090)	Y26 Y29 Y31	6.1, 11, 12	ex 8548.10 ex 8548.90
<b>A1180</b>		Electrical and electronic assemblies or scrap containing components such as accumulators and other batteries included on List B, mercury-switches, glass from cathode-ray tubes and other activated glass and PCB-capacitors, or contaminated with Schedule 2 constituents (e.g.cadmium, mercury, lead, polychlorinated biphenyl) to an extent that they exhibit hazard characteristics indicated in Part-B of			

		this schedule.(see B1110)			
<b>A2</b>		<b>Wastes containing principally inorganic constituents , which may contain metals and organic materials</b>			
<b>A2010</b>	AB040	Glass waste from cathode-ray tubes and other activated glass	Y31	6.1, 11,12	ex 7001.00
<b>A2020</b>		Waste inorganic fluorine compounds in the form of liquids or sludges but excluding such wastes specified on List-B	Y32		
<b>A2030</b>		Wastes catalysts but excluding such wastes specified on List B	Y31		
<b>A2040</b>		Waste gypsum arising from chemical industry processes, when containing schedule 2 constituents to the extent that it exhibits hazard characteristic. Indicted in partB of this schedule.			
<b>A2050</b>	RB010	*Wastes Asbestos (dust and fibres)	Y36		
<b>A2060</b>	AB010	Coal fired power-plant fly ash			

		containing schedule 2 constituents in concentrations sufficient to exhibit hazard characteristics indicated in part B of this schedule.			
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<b>Basel No.</b>	<b>OECD No.</b>	<b>Description of material</b>	<b>Annex I</b>	<b>Annex III</b>	<b>Customs code</b>
<b>A3</b>		<b>Wastes containing principally organic constituents, which may contain metals and inorganic materials.</b>			
<b>A3010</b>	AC010	Waste from the production or processing of petroleum coke and bitumen	Y11		ex2713 90
<b>A3020</b>	AC030	Waste mineral oils unfit for their originally intended use	Y8		2710.00 3823.90
<b>A3030</b>	AC040 RC030	Wastes that contain, consist of or are contaminated with leaded anti-knock compound sludges or leaded petrol (gasoline) sludges	Y31		
<b>A3040</b>	AC050	Thermal (heat transfer) fluids			

<b>A3050</b>	AC090	Wastes from production, formulation and use of resins, latex, plasticisers, glues/adhesives.			
<b>A3060</b>	AC100	[Waste] Nitrocellulose	Y15		3925.90
<b>A3070</b>	AC110	[Waste] Phenol, phenol compounds including chlorophenol in the form of liquids or sludges	Y39		
<b>A3080</b>	AC130	Ethers not including those specified on List B			
<b>A3090</b>		Leather dust, ash, sludges and flours when containing hexavalent chromium compounds or biocides (see B3100)	Y21, Y4		4110.00
<b>A3100</b>		Wastes paring and other waste of leather or of composition leather, not suitable for the manufacture of leather articles, containing hexavalent chromium compounds or biocides.	Y21, Y4		

<b>A3110</b>		Fellmongery wastes containing hexavalent chromium compounds or biocides or infectious substances.	Y21, Y4		
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<b>Basel No.</b>	<b>OECD No.</b>	<b>Description of material</b>	<b>Annex I</b>	<b>Annex III</b>	<b>Customs code</b>
<b>A3120</b>	AC190	Fluff: light fraction from shredding (automobile)			
<b>A3130</b>	AC200	Waste organic phosphorous compounds	Y37		
<b>A3140</b>	AC210	[Waste] non-halogenated [organic] solvents [but excluding such wastes specified on List B]	Y42		
<b>A3150</b>	AC220	Waste halogenated organic solvents	Y41		
<b>A3160</b>	AC230	Waste halogenated or unhalogenated non-aqueous distillation residues arising from organic solvent recovery operations	Y18		

<b>A3170</b>	AC240	Wastes arising from the production of aliphatic halogenated hydrocarbons (such as chloromethanes, dichloroethane, vinyl chloride, allyl chloride and epichlorhydrin)	Y45		
<b>A3180</b>	AC120 RA010	Wastes, substances and articles containing, consisting of or contaminated with polychlorinated biphenyls (PCB) and/or polychlorinated terphenyls (PCT) and/or polychlorinated naphthalenes (PCN) and/or polybrominated biphenyls (PBB), including any other polybrominated analogues of these compounds, at a concentration level of 50mg.kg or more.	Y10, Y45		2620.90 2903.69 3823.90
<b>A3190</b>	RA020	Waste tarry residues (excluding asphalt cements) arising from refining, distillation and any pyrolytic treatment of organic materials	Y11		
	AC250	Surface active agents (surfactants)			
	AC260	Liquid pig manure; faeces			

	AC270	Sewage sludge			
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<b>Basel No.</b>	<b>OECD No.</b>	<b>Description of material</b>	<b>Annex I</b>	<b>Annex III</b>	<b>Customs code</b>
<b>A4</b>	<b>AD</b>	<b>Wastes which may contain either inorganic or organic constituents</b>			
<b>A4010</b>	AD010	Wastes from the production and, preparation, and use of pharmaceutical products.	Y2		
<b>A4020</b>		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.	Y1		
<b>A4030</b>	AD020	L Wastes from the production, formulation and use of biocides and phyto-pharmaceuticals, including waste pesticides and herbicides which are off-specification, out-dated, and / or unfit for their originally intended	Y4		

		use.			
<b>A4040</b>	AD030	Wastes from the manufacture, formulation, and use of wood preserving chemicals	Y5, Y22, Y24		
<b>A4050</b>	AD040	Wastes that contain, consist of, or are contaminated with any of the following:- <ul style="list-style-type: none"> <li>• Inorganic cyanides, excepting precious metal-bearing residues in solid form containing traces of inorganic cyanides.</li> <li>• organic cyanides</li> </ul>	Y33, Y7, Y38  Y38		
<b>A4060</b>	AD060	Waste Oils/water, hydrocarbons/water mixtures, emulsions	Y9		
<b>A4070</b>	AD070	Wastes from the production, formulation and use of inks, dyes, pigments, paints, lacquers, varnish	Y12		

<b>Basel</b>	<b>OECD No.</b>	<b>Description of material</b>	<b>Annex I</b>	<b>Annex III</b>	<b>Customs code</b>
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<b>No.</b>					
<b>A4080</b>		Wastes of an explosive nature	Y 15		
<b>A4090</b>	AB110 AD110	Waste acidic or basic solutions.	Y34 Y35		
<b>A4100</b>		Wastes from industrial pollution control devices for cleaning of industrial off-gases.	Y18		
<b>A4110</b>	RC010	wastes that contain , consist of or are contaminated with any of the following:- <ul style="list-style-type: none"> <li>• Any congener of polychlorinated dibenzofuran</li> <li>• Any congener of polychlorinated dibenzodioxin</li> </ul>	Y43		
<b>A4120</b>		Wastes that contain, consist of or are contaminated with peroxides			
<b>A4130</b>		Waste packages and containers			

		containing schedule 2 substances in concentrations sufficient to exhibit hazard characteristics indicated in part B of this schedule.			
<b>A4140</b>		Waste consisting of or containing off specification or out-dated chemicals listed in schedule 2 in concentration sufficient to exhibit hazard characteristics indicated in Part B of this schedule.			
<b>A4150</b>		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			
<b>A4160</b>		Spent activated carbon not resulting from the treatment of portable water and processes of the food industry and vitamin production.			ex 2803

**LIST - B**

<b>Basel No.</b>	<b>OECD No.</b>	<b>Description of material</b>	<b>Annex I</b>	<b>Annex III</b>	<b>Customs code</b>
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<b>B1</b>		<b>Metal and metal-bearing wastes</b>			
<b>B1010</b>	GA120	Copper scrap			740400
	GA130	Nickel scrap			750300
	GA190	Molybdenum scrap			ex 810291
	GA200	Tantalum scrap			ex 810310
	GA210	Magnesium scrap excluding wastes in AA190			810420
	GA220	Cobalt scrap			ex 810510
	GA230	Bismuth scrap			ex 810600
	GA250	Titanium scrap			ex 810810
	GA260	Zirconium scrap			ex 810910
	GA280	Manganese scrap			ex 811100
	GA300	Chromium waste and scrap			ex 811220
	GA310	Germanium scrap			ex 811230
	GA320	Vanadium scrap (see AA060)			ex 811240
	GA330	Scrap of Hafnium			ex811291

	GA340	Scrap of Indium			ex811291
	GA350	Scrap of Niobium			ex811291
	GA360	Scrap of Rhenium			ex8112.91
	GA370	Scrap of Gallium			ex8112.91
<b>B1020</b>		<b>Clean, uncontaminated metal scrap, including alloys, in bulk finished form (sheet, plate, beams, rods, etc), of :</b>			
	GA270	Antimony scrap			ex811000
	GA290	Beryllium scrap			ex 811211
	GA240	Cadmium scrap			ex810710
<b>B1040</b>		Scrap assemblies from electrical power generation contaminated with lubricating oil, PCB or PCT to an extent indicated in schedule 2.			
<b>B1050</b>		Mixed non-ferrous metal,			

		heavy fraction scrap, containing schedule 2 materials in concentrations sufficient to exhibit hazard characteristics indicated in part B of this schedule.			
<b>B1070</b>		Waste of copper and copper alloys in dispersible form, containing schedule 2 constituents to an extent that they exhibit hazard characteristics indicated in part B of this schedule (see A1020, etc and AA040)			ex262030
<b>B1080</b>		Zinc ash and residues including zinc alloys residues in dispersible form containing schedule 2 constituents to an extent that they exhibit hazard characteristics indicated in part B of this schedule H4.3 (see A1080 and AA020)			ex262010 ex262019 ex281700
<b>B1090</b>		Waste batteries made with lead, cadmium or mercury (see A1170 and AA180)			ex854810 ex854890

<b>B1100</b>	<b>GB</b>	<b>Metal -bearing wastes arising from melting, smelting and refining of metals:</b>			
	GB025	Zinc skimmings containing less than 65% zinc and lead and cadmium more than 1.25% and 0.1% respectively.			
		Slags from copper processing for further processing or refining containing arsenic, lead or cadmium to an extent that they exhibit hazard characteristics indicated in part B of this schedule.			Ex 262030
	GB40	Slags from precious metals processing for further refining			ex262090
		Wastes of refractory linings, including crucibles, originating from copper smelting			
	AA50	Aluminium skimmings (or skims) excluding salt slag			
	GB050	Tantalum-bearing tin slags greater than 0.5% tin			ex262090

<b>B1110</b>	<b>GC</b>	<b>Electrical and electronic assemblies:</b>			
	GC010	Electronic assemblies consisting only of metals or alloys			
	GC020	Electrical and electronic assemblies (including printed circuit board, electronic components and wires) not valid for direct re-use, but for recycling.			
<b>B1120</b>		<b>Spent catalysts excluding liquids used as catalysts, containing any of :</b>			
<b>B1130</b>		Uncleaned spent precious-metal-bearing catalysts			Ex 381510  Ex 711510
<b>B1140</b>		Precious-metal-bearing residues in solid form which contain inorganic cyanides			Ex 381510  Ex 711510

<b>B1150</b>		Precious metals and alloy wastes (gold, silver, the platinum group, and mercury) in a dispersible form.			Ex 381510  Ex 711510
		Slag from copper production.			Ex 262030
		Lithium-Tantalum and Lithium-Niobium containing glass scraps			
<b>B1170</b>		Precious-metal ash from the incineration of photographic film			Ex 284310
<b>B1200</b>		Granulated slag arising from the manufacture of iron and steel			ex261900
<b>B1210</b>	GC080	Slag arising from the manufacture of iron and steel including slags as a source of Titanium Dioxide and Vanadium			ex261900

<b>B1220</b>		Slag from zinc production.			Ex 262030
<b>B1230</b>		Mill scaling arising from the manufacture of iron and steel			ex261900
<b>B1240</b>		Copper oxide mill-scale			Ex 262030
	<b>B2</b>	<b>Wastes containing principally inorganic constituents, which may contain metals and organic materials</b>			
<b>B2010</b>		<b>Wastes from mining operations in non-dispersible form:</b>			
	GD010	Natural graphite waste			250400
	GD040	Leucite, nepheline and nepheline syenite waste			252930
	GD050	Feldspar waste			252910
	GD060	Fluospar waste			252921

					252922
	GD070	Silica wastes in solid form excluding those used in foundry operations			281122
<b>B2030</b>	<b>GF</b>	<b>Ceramic wastes in non-dispersible form:</b>			
	GF020	Cermet wastes and scrap (metal ceramic composites)			ex8113.00
<b>B2040</b>	<b>GG</b>	<b>Other wastes containing principally inorganic constituents</b>			
	GG010	Partially refined calcium sulphate produced from flue gas desulphurisation (FGD)			
	GG030	Bottom ash and slag tap from coal fired power plants			ex262100
<b>B2070</b>	<b>AB050</b>	<b>Calcium fluoride sludge</b>			Ex282600

<b>B2100</b>		Waste hydrates of aluminium and waste alumina and residues from alumina production, arising from gas cleaning, flocculation or filtration processes			Ex281800
<b>B2110</b>		Bauxite residue ("red mud")			ex260600
	<b>B3</b>	<b>Wastes containing principally organic constituents, which may contain metals and inorganic materials</b>			
<b>B3010</b>	GH	Solid plastic waste : The following plastic or mixed plastic materials, provided they are not mixed with other wastes and are prepared to a specification:			
	GH	Scrap plastic of non-halogenated polymers and copolymers, including but not limited to the following:			
	GH011	ethylene			391590

	GH012	styrene			391520
	GH014	polypropylene			391590
	GH014	polyethylene teraphthalate			391590
	GH014	acrylonitrile			ex391590
	GH014	butadiene			ex391590
		polyacetals			ex391590
	GH014	polyamides			ex391590
	GH014	polybutylene terephthalate			ex391590
	GH014	polycarbonates			ex391590
		polyethers			ex391590
	GH014	polytheneylene sulphides			ex391590
	GH014	acrylic polymers			ex391590
		alkanes C10-C13 (plasticiser)			ex391590
	GH014	polyurethane (not containing CFCs)			ex391590
	Gh014	polysiloxanes			ex391520

	GH014	polymethyl methacrylate			ex391520
	GH014	polyvinyl alcohol			ex391520
	GH014	polyvinyl butyral			ex391520
	GH014	polyvinyl acetate			ex391520
		<b>[Crude waste] resins or condensation products [including the following] [e.g.]</b>			
	GH015	urea formaldehyde resins			ex391520
	GH015	phenol formaldehyde resins			ex391520
	GH015	melamine formaldehyde resins			ex391520
	GH015	epoxy resins			ex391520
	GH015	alkyd resins			ex391520
	GH015	polyamides			ex391520
		<b>The following fluorinated polymer wastes</b>			

		Perfluoroethylene/ propylene (FEP)			
		Perfluoroalkoxy alkane (PFA)			
		Perfluoroalkoxy alkane (MFA)			
		polyvinylfluoride (PVF)			
		polyvinylidene fluoride (PVDF)			
<b>B3060</b>	GM	Waste arising from agro- food industries provided it is not infectious			
<b>B3060</b>	GM090	Degras; residues resulting from the treatment of fatty substances or animal or vegetable waxes			ex152200
<b>B3060</b>	GM100	Waste of bones and horn- cores, unworked, defatted, simply prepared (but not cut to shape), treated with acid or degelatinised			0506 90
<b>B3060</b>	GM110	Fish waste			ex 0511 91

## SCHEDULE-4

[ See Rule 12(3) ]

<b>S.NO.</b>	<b>Authority(ies)</b>	<b>Duties and corresponding Rule</b>
<b>1.</b>	<b>2.</b>	<b>3.</b>
1.	Ministry of Environment and Forests under the Environment (Protection) Act, 1986	i) Identification of hazardous wastes as per rule-3 ii) Permission to exporters as per rule 14(3) iii) Permission to importer as per rule 13(3)
2.	Central Pollution Control Board constituted under the Water Act (Prevention & Control of Pollution), 1974	i) Co-ordinate activities of the State Pollution Control Boards and ensure implementation of the conditions of imports ii) Monitor the compliance of the conditions of authorization, import and export iii) Conduct training courses for authorities dealing with

		management of hazardous wastes.
		iv) Recommend standards for treatment, disposal of waste, leachate and specifications of materials.
		V) Recommend procedures for characterization of hazardous waste.
3.	State Pollution Control Boards constituted under the Water Act (Prevention & Control of Pollution), 1974	i) Grant and renew authorisation under rule 5(4) and rule 8.
		ii) Monitor the compliance of the various provisions and conditions of authorisation
		iii) Forward the application for imports submitted by the importers as per rule 13(1)
		iv) To review matters pertaining to identification and notification

		of disposal sites.
4.	Directorate General of Foreign Trade constituted under the Foreign Trade (Development & Regulation) 1992.	<p>i) Grant licence as per rule 13(5).</p> <p>ii) Refuse licence for hazardous wastes prohibited for imports under the Environment (Protection) Act, 1986.</p>
5.	Port Authorities and Customs Authorities under the Customs Act, 1962.	<p>i) Verify the documents as per rule 13(6).</p> <p>ii) Inform the Ministry of Environment &amp; Forests, Govt. of India of any illegal traffic as per rule 15</p> <p>iii) Analyse wastes permitted for imports and exports</p> <p>iv) Train officials on the provisions of the Hazardous Wastes Rules and in analysis</p>

		of hazardous wastes.
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**FORM-8**

[See Rule 7(3)]

**Marking of Hazardous Waste Containers**

HAZARDOUS WASTE

Handle with Care

Waste Category No .....	Compatible Group .....
Total Quantity .....	Date of Storage
Contents and State of the Waste:	
Sender's Name & Address	Receiver's Name & Address
Phone .....	Phone .....
Telefax No .....	Telefax No .....
Telex No .....	Telex No .....
Contact Person .....	Contact Person .....
In case of emergency please contact .....	

Note :

1. Background colour of lab I fluorescent yellow.
2. The words 'HAZARDOUS WASTES' & 'HANDLE WITH CARE' to be prominent and written in red
3. Label should be of non-washable material.

