ENVIRONMENTAL MANAGEMENT AND CO-ORDINATION
(WASTE MANAGEMENT) REGULATIONS, 2006

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ENVIRONMENTAL MANAGEMENT AND CO-ORDINATION (WASTE MANAGEMENT) REGULATIONS, 2006

[L.N. 121/2006.]

PART I – PRELIMINARY PROVISIONS

1. Citation

These Regulations may be cited as the Environmental Management and Co-ordination (Waste Management Regulations), 2006.

2. Interpretation

In these Regulations unless the context otherwise requires—

“applicant” means any person who applied to the Authority or lead agency for authorization to perform specific activities connected with chemicals, pesticides, radioactive substances and waste management;

“biodegradable substance” means a substance that can be degraded by micro-organisms;

“biomedical waste” means any waste which is generated during the diagnosis, treatment or immunization of human beings or animals or in research activities pertaining thereto or in the production or testing of biologicals and includes the category of waste specified in the Ninth Schedule to these Regulations;

“Board” means the Radiation Protection Board established under the Radiation Protection Act (Cap. 243);

“disposal site” means any area of land on which waste disposal facilities are physically located and includes a final waste discharge point without the intention of retrieval but does not mean a re-use or re-cycling plant or site;

“domestic waste” means waste generated from residences;

“environmentally sound management of waste” means taking all practical steps to ensure that waste is managed in a manner which protects human health and the environment against the adverse effects which may result from the waste;

“incineration” means the controlled burning of solids, liquids, gaseous combustible waste to produce gases and residues containing little or no combustible materials;

“industrial waste” means waste arising from processing and manufacturing industries or trade undertakings and can take the form of liquid, non-liquid, solid and gaseous substances;

“pesticide” has the meaning assigned to it under the Pesticide Control Act (Cap. 346);

“Prior Informed Consent” means the international operation procedure for exchanging, receiving and handling notification information by the competent authority on waste;

“radioactive waste” means any radioactive material that has been, or will be, discarded as of being of no further use;

“recycling of waste” means the processing of waste material into a new product of similar chemical composition;
“reprocessing” means the processing of waste into a new product of different chemical composition;
“re-use” means waste re-used with or without cleaning and/or repairing;
“segregation” means any activity that separates waste materials for processing;
“sludge” means a non-flowing mixture of solids and liquids;
“storage” means placement of waste in a suitable location or facility where isolation, environmental, health protection and human control are provided in order to ensure waste is subsequently retrieved for treatment and conditioning and/or disposal;
“toxic chemical” means any substance which on entry to or into an organism through ingestion, inhalation and dermal contact is injurious, causes physiological or biochemical disturbances or otherwise causes deterioration of the functions of the organism in any way;
“treatment” means any method and technique or process for altering the biological, chemical or physical characteristics of wastes to reduce the hazards it presents and includes facilities intended to reduce the cost of disposal of such waste and whose treatment objectives include volume reduction, disinfection, neutralization or other change of composition to reduce hazards;
“waste generator” means any person whose activities or activities under his or her direction produces waste or if that person is not known, the person who is in possession or control of that waste; and
“waste management” means the activities either administrative or operational that are used in handling, packaging, treatment, condition, storage and disposal of waste.

3. Application
These Regulations shall apply to all categories of waste as is provided for herein.

PART II – GENERAL PROVISIONS

4. Responsibility of waste generator
(1) No person shall dispose of any waste on a public highway, street, road, recreational area or in any public place except in a designated waste receptacle.

(2) A waste generator shall collect, segregate and dispose such waste in the manner provided for under these Regulations.

5. Cleaner production methods
A waste generator shall minimize the waste generated by adopting the following cleaner production methods—

(a) improvement of production process through—
   (i) conserving raw materials and energy;
   (ii) eliminating the use of toxic raw materials; and
   (iii) reducing toxic emissions and wastes;

(b) monitoring the product cycle from beginning to end by—
   (i) identifying and eliminating potential negative impacts of the product;
   (ii) enabling the recovery and re-use of the product where possible; and
   (iii) reclamation and recycling; and
incorporating environmental concerns in the design and disposal of a product.

6. Segregation of waste by generator

A waste generator shall segregate waste by separating hazardous waste from non-hazardous waste and shall dispose of such wastes in such facility as shall be provided by the relevant local authority.

7. Waste transportation licence

(1) No person shall be granted a licence under the Act to transport waste unless such person operates a transportation vehicle approved by the Authority upon the recommendation of the relevant lead agency.

(2) Any vehicle used for transportation of waste or any other means of conveyance shall be labelled in such a manner as may be directed by the Authority.

(3) The Authority in consultation with the relevant lead agency may designate particular geographical areas to be the areas for operation for licensed waste transporters.

(4) An application for a licence to transport waste shall be submitted in Form I set out in the First Schedule to these Regulations and shall be accompanied by the prescribed fees set out in the Second Schedule.

(5) A licence issued under the Act for the transportation of waste shall be in Form II set out in the First Schedule to these Regulations and shall be valid for one year from the date of issue.

8. Responsibility of a waste transporter

Any person granted a license to transport waste shall ensure that—

(1) the collection and transportation of such waste is conducted in such a manner that will not cause scattering of the waste;

(2) the vehicles and equipment for the transportation of waste are in such a state that shall not cause scattering of, or flowing out of waste or emission of noxious smells from such waste;

(3) the vehicles for transportation and other means of conveyance of waste follow the scheduled routes approved by the Authority from the point of collection to the disposal site or plant; and

(4) he or his agent(s) possess at all times during transportation of the waste, a duly filled tracking document as set out in Form III in the First Schedule to these Regulations and shall produce the same such tracking document on demand to any law enforcement officer.

9. Transportation of waste by licensed transporter

Any person licensed to transport waste shall collect waste from the designated area of operation and shall deliver such waste to the designated disposal site or plant.

10. Licence for disposal facility

(1) Any person granted a licence under the Act and any other licence that may be required by the relevant Local Authority to operate a waste disposal site or plant, shall comply with all conditions imposed by the Authority to ensure that such waste disposal site or plant operates in an environmentally sound manner.

(2) An application for a licence to operate a waste disposal site or plant shall be submitted in Form IV set out in the First Schedule to these Regulations and shall be accompanied by the prescribed fees set out in the Second Schedule.
(3) A licence issued under the Act for the operation of a waste disposal site or plant shall be in Form V as set out in the First Schedule to these Regulations.

(4) A licence to operate a waste disposal site or plant shall be valid for a period of one year from the date of issue and may be renewed for a further period of one year on such terms and conditions as the Authority may deem necessary or impose for purposes of ensuring public health and sound environmental management.

(5) In issuing a waste disposal licence, the Authority shall clearly indicate the disposal operation permitted and identified for the particular waste.

11. Waste treatment by operators of disposal sites

Any operator of a disposal site or plant shall apply the relevant provisions on waste treatment under the Local Government Act (Cap. 265) and Regulations to ensure that such waste does not present any imminent and substantial danger to the public health, the environment and natural resources.

12. Requirement for Environmental Audit

Every licensed owner or operator of a waste disposal site or plant shall carry out an annual environmental audit pursuant to the provisions of the Act.

13. Re-use and recycling plants

Notwithstanding any provisions to the contrary in these Regulations, these Regulations shall also apply to plants and sites established for re-use or re-cycling of wastes.

PART III – INDUSTRIAL WASTES

14. General obligation to mitigate pollution

(1) Every trade or industrial undertaking shall install at its premises anti-pollution equipment for the treatment of waste emanating from such trade or industrial undertaking.

(2) An anti-pollution equipment installed pursuant to paragraph (1), shall be determined by the best practicable means, environmentally sound practice or other guidelines as the Authority may determine.

15. Treatment of industrial waste

No industry shall discharge or dispose of any waste in any state into the environment, unless the waste has been treated in a treatment facility in a manner prescribed by the Authority in consultation with the relevant lead agency.

PART IV – HAZARDOUS AND TOXIC WASTES

16. Hazardous waste specifications

For the purposes of this Part, hazardous waste means be any waste specified in the Fourth Schedule or any waste having the characteristics specified in the Fifth Schedule.

17. Requirement for Environmental Impact Assessment (EIA)

(1) No person shall engage in any activity likely to generate any hazardous waste without a valid Environmental Impact Assessment licence issued by Authority under the provisions of the Act.
18. Handling, storing and transporting of hazardous waste

(1) Every generator of hazardous waste shall ensure that every container or package for storing such waste is labelled in easily legible characters, written in both English and Kiswahili.

(2) The label shall contain the following information—
   (a) the identity of the hazardous waste;
   (b) the name and address of the generator of waste;
   (c) the net contents;
   (d) the normal storage stability and methods of storage;
   (e) the name and percentage of weight of active ingredients and names and percentages of weights of other ingredients or half-life of radioactive material;
   (f) warning or caution statements which may include any of the following as appropriate—
      (i) the words “WARNING” or “CAUTION”;
      (ii) the word “POISON” (marked indelibly in red on a contrasting background); and
      (iii) the words “DANGER! KEEP AWAY FROM UNAUTHORISED PERSONS”; and
      (iv) a pictogram of a skull and crossbones;
   (g) a statement of first aid measures, including the antidote when waste is inhaled, ingested or dermal contact and a direction that a physician must be contacted immediately.

19. Treatment of hazardous waste

(1) Every person who generates toxic or hazardous waste shall treat or cause to be treated such hazardous waste using the classes of incinerators prescribed in the Third Schedule to these Regulations or any other appropriate technology approved by the Authority.

(2) Any leachate or other by-products of such treated waste shall be disposed of or treated in accordance with the conditions set out in the license or in accordance with guidelines issued by the Authority in consultation with the relevant lead agency.

20. Export permit

(1) No person shall export hazardous wastes without a valid permit issued by the Authority and a valid Prior Informed Consent document issued by the designated national authority of the receiving country.

(2) An application for exportation of toxic or hazardous waste shall be submitted to the Authority in Form I set out in the Sixth Schedule accompanied by the prescribed fee and a copy of the Prior Informed Consent document from the receiving country.

(3) Where the Authority is satisfied that all the requirements have been complied with, it shall issue an export permit as set out in Form II in the Sixth Schedule.

(4) Where a permit is issued under these Regulations, the permit holder shall send a copy of the permit to the Kenya Revenue Authority for the necessary customs verification and control.

(5) An export permit issued under these Regulations shall relate to the specific export transaction but shall not be valid for any subsequent export transactions or transferable.
21. Transit of hazardous waste

No person shall transit toxic or hazardous waste destined for another country through the territory of Kenya without a valid Prior Informed Consent for such movement issued by the Authority including the prescribed document for transboundary movement of waste set out in Form I in the Sixth Schedule, the transit permit set out in Form II in the Sixth Schedule and any other documents prescribed by the competent customs authority.

22. Insurance

(1) An application for an export permit issued under the Act and these Regulations shall satisfy the Authority that the hazardous waste transporter has subscribed to an insurance policy covering the risks likely to arise out of the activity for which the licence is required.

(2) A generator of waste which has been characterised as toxic or hazardous under these Regulations, shall upon written instructions from the Authority, subscribe to an insurance policy to cover the risks caused by the waste.

23. Register of permits

The Authority shall maintain a register of all permits issued under these Regulations.

PART V – PESTICIDES AND TOXIC SUBSTANCES

24. Application of Cap. 346

The Regulations made under the Pests Control Products Act relating to the classification, registration, labelling, packaging, advertising, import, export, distribution, storage, transportation, handling and disposal of pesticides shall apply to this Part.

25. Disposal of pesticides

No person shall dispose of any pesticide or toxic substance other than at a designated site or plant approved by the Authority.

PART VI – BIOMEDICAL WASTES

26. Requirement for EIA from biomedical waste generator

No person shall own or operate any institution that generates bio-medical waste without a valid Environmental Impact Assessment licence issued by the Authority under the provisions of the Act.

27. Approval of biomedical waste generating facility

Every waste generator of biomedical waste shall ensure that the generating facility has been approved by the appropriate lead agency and the relevant Local Authority.

28. Segregation of biomedical waste

Every waste generator of biomedical waste shall at the point of generation and at all stages thereafter segregate the waste in accordance with the categories specified in the Seventh Schedule to these Regulations.

29. Securing and packaging of bio-medical waste

All biomedical waste shall be securely packaged in biohazard containers which shall be labelled with the symbols set out in Part I and Part II in the Eighth Schedule to these Regulations.
30. Treatment of biomedical waste

Every waste generator shall treat or cause to be treated all biomedical waste in the manner set out in the Ninth Schedule to these Regulations, before such biomedical waste is stored or disposed of.

31. Monitoring by lead agency

The relevant lead agency shall monitor the treatment of all biomedical waste to ensure that such waste are treated in a manner that will not adversely affect public health and the environment.

32. Storage of biomedical waste

No person shall store biomedical waste at a temperature above 0°C for more than seven days without the written approval of the relevant lead agency, provided that untreated pathological waste shall be disposed of within 48 hours.

33. Transportation of biomedical waste

(1) No person shall transport biomedical waste without a valid permit issued by the relevant lead agency in consultation with the relevant Local Authority.

(2) No person shall transport or allow to be transported biomedical waste save in a specially designed vehicle or other means of conveyance so as to prevent spillage, leakage or scattering of such waste.

34. Transfer stations

The provisions of these Regulations relating to storage and transportation of bio-medical waste shall apply to operators of transfer stations.

35. Standards for biomedical waste disposal sites or plants

No person shall be issued with a licence to operate a biomedical waste disposal site or plant unless such site or plant complies with the requirements set out in the Third and Tenth Schedule to these Regulations.

36. Requirement for EIA for biomedical waste disposal site or plant and licence to operate

No person shall own or operate a biomedical waste disposal site or plant without a valid Environmental Impact Assessment licence issued by the Authority under the provisions of the Act and a licence to operate such plant issued by the relevant lead agency and the relevant Local Authority.

37. Requirement of Environmental Audits

Within six months after the commencement of these Regulations, operators of biomedical waste disposal sites or plants shall submit Environmental Audit reports and thereafter annual Audit Reports to the Authority.

PART VII – RADIOACTIVE SUBSTANCES

38. Application of Cap 243

The provisions of the regulations made under the Radiation Protection Act (Cap. 243) in relation to the classification, registrations, labelling, packaging, transportation, importation, exportations, waste disposal, health and safety requirements with regard to radioactive substances shall apply to this Part.
39. Disposal of radioactive substance

No person shall dispose of any radioactive substance or waste other than at a designated site or plant approved by the Authority.

PART VIII – MISCELLANEOUS

40. Transitional provision for transporting waste

Any person, who before the commencement of these Regulations was carrying out the business of transporting waste, shall apply to the Authority for a licence for the transportation of waste in the prescribed Form I set out in the First Schedule within six months after the commencement of these Regulations.

41. Transitional provision for disposal facilities

Any person who before the commencement of these Regulations was carrying out the business of operating a waste disposal site or plant shall apply to the Authority for a licence in the prescribed Form IV set out in the First Schedule within six months after the commencement of these Regulations.

42. Offences and penalties

Any person who violates the provisions of these Regulations commits an offence and is liable on conviction to imprisonment for such a term and such fine as provided for in the Act.

43. Operation of Regulations

These Regulations shall operate in addition to any other regulations and standards made under any other law.

FIRST SCHEDULE

(To be completed in Triplicate)

FORM I (Regulation 7)

[FORM NEMA/WM/1]

APPLICATION/RENEWAL FOR A LICENCE FOR TRANSPORTATION OF WASTE

I hereby apply for a licence to transport waste, of which particulars are given below:

Name and address of applicant

Registration number and type of vehicles to transport waste

Quantity of waste per vehicle to be transported

Licensed sites/plant to which waste is to be transported

Collection schedule


E12 - 179

[Issue 1]
FIRST SCHEDULE, FORM I—continued

Any other information ........................................................................................................................................

Attach recommendation document(s) from the relevant lead agency:

Is application for: [ ] Initial licence [ ] Renewal

Previous Licence Number ................................................................................................................................

Date ................................................................................................................................................... Signature ........................................................................................................................................

Designation/Title: ........................................................................................................................................

FOR OFFICIAL USE ONLY

Application received by ................................................................................................................................

Fee paid KShs. ................................................................................................................................................

(in words) ..................................................................................................................................................

Director-General
National Environmental Management Authority

FORM II

(Regulation 7)

[FORM NEMA/WM/2]

LICENSE TO TRANSPORT WASTE

License No. TR/HW ........................................................................................................................................

Name ............................................................................................................................................................

Address ........................................................................................................................................................

You are hereby licensed to transport waste to: ................................................................................................

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FIRST SCHEDULE—continued

FORM III

[FORM NEMA/WM/3]

(To be completed in triplicate)

TRACKING DOCUMENT

A
Transporter

Serial No. .................................................
Registered Name of Transporter .................................................
Usual Municipality/District of operation .................................................
Licence number .................................................
Issuing Authority .................................................

B
Description of the waste

(1) Area collected .................................................
(2) Type of waste .................................................
(3) Description and physical nature of waste .................................................
(4) Quantity/size of waste .................................................
(5) Number of containers .................................................

C
Disposers Certificate

I certify that I have received the waste as described in A and B above.
The waste was delivered in vehicle .................................................
(Registration No.) at ................................................. (time)
on ................................................. (date) and the carrier gave his/her name as .................................................
on behalf of .................................................
The waste shall be disposed off as per disposal licence issued by the Authority.

Signed: .................................................
Name: .................................................
Position: .................................................
Date: .................................................
On behalf of: .................................................

FORM IV

[FORM NEMA/WM/4]

(To be completed in Triplicate)

APPLICATION/RENEWAL FOR A LICENCE TO OWN/OPERATE A WASTE TREATMENT OR DISPOSAL SITE

I hereby apply for a licence to own/operate a waste treatment plant/disposal site, of which particulars are given below:

Name and address of applicant .................................................

PIN Number .................................................
FIRST SCHEDULE, FORM IV—continued

Location and district of plant/site

Approval of Town/Country Planning Authority

Types of waste to be disposed of at plant/site

Quantity being disposed of per annum: tonnes/kg.

Type of facilities/treatment to be carried out at plant/site:
(a) Land fill
(b) Compost
(c) Incinerator
Other (specify)

Estimated life span of plant/site

Proposed hectare/area of plant/site (include plan or designs)

Executive summary of environmental impact statement (please attach)

Is application for:
Initial licence Yes ☐ No ☐
Renewal Yes ☐ No ☐

Previous Licence Number
E.I.A. Licence Number

Any other information

Date ........................................ Signature:

Designation/Title: ........................................

FOR OFFICIAL USE ONLY

Application received by ........................................ on ........................................, 20 .........................................

Fee paid KShs. ........................................ (in words)

______________________________
Director General
National Environmental Management Authority

[Rev. 2012]
SECOND SCHEDULE
[Regulations 7, 10 and 20.]

FEES

<table>
<thead>
<tr>
<th>Description</th>
<th>KShs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Application for licence/permit:</td>
<td></td>
</tr>
<tr>
<td>(a) for transportation of waste</td>
<td>3,000</td>
</tr>
<tr>
<td>(b) to own/operate a waste processing plant/site</td>
<td>3,000</td>
</tr>
<tr>
<td>(c) to own/operate a waste disposal plant/site</td>
<td>3,000</td>
</tr>
<tr>
<td>(d) to export/transit waste</td>
<td>3,000</td>
</tr>
<tr>
<td>2. Licence/Permit</td>
<td></td>
</tr>
<tr>
<td>For a licence/permit to:</td>
<td></td>
</tr>
<tr>
<td>(a) transport waste</td>
<td>5,000</td>
</tr>
<tr>
<td>(b) own/operate a waste processing plant/site</td>
<td>40,000</td>
</tr>
<tr>
<td>(c) own/operate a waste disposal plant/site</td>
<td>75,000</td>
</tr>
<tr>
<td>(d) to export/transit waste</td>
<td>30,000</td>
</tr>
</tbody>
</table>
THIRD SCHEDULE

STANDARD FOR TREATMENT AND DISPOSAL OF WASTES

(5) Classification of incinerators

Class 1: Industrial Plants Burning Waste as an Additional/Alternative Fuel

Incinerators in which the waste serves as the fuel or supplementary fuel in an industrial process (e.g. the use of cement kilns or any other industrial boilers or furnaces for the disposal of noxious or hazardous materials).

Class 2: Industrial incinerators

Class 2A: Commercial

Incinerators for the disposal of waste that contains hazardous, potential hazardous and bio-medical waste where the operator exceeds 100 kg/day.

Class 2B: Small scale incinerators for Private Use

Incinerators for the disposal of hazardous, potential hazardous and bio-medical waste where the operator does not exceed 100 kg/day.

Class 3: General waste incinerators

Incinerators for general waste that is non-toxic, non-hazardous, non-medical or does not contain organic halogens, (i.e., selected customs, police, contraband goods, offices waste, commercial waste and industrial wastes) where the operator does not exceed 1 ton/day.

STANDARDS, GUIDELINES, CRITERIA, PROCEDURE FOR INSTALLING/OPERATING INCINERATORS

<table>
<thead>
<tr>
<th>No.</th>
<th>Parameter</th>
<th>Standards, Guideline, Criteria and Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Basic Plant Design</td>
<td>An approved plant must have four distinct sections that demonstrate three principles of turbulence, residence, time and temperature are inbuilt in the plant design. The regulated sections may include but are not limited to:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Overall plant layout;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Feed chamber/charging;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Primary Combustion Chamber;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Secondary Combustion Chamber;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Particulate Scrubbers;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Acid Gas Scrubbers;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• The stack/chimney.</td>
</tr>
<tr>
<td>2</td>
<td>Feeding and Charging</td>
<td>Controlled hygienic, mechanical or automatic feeding methods have to be used which will not influence the air temperature in the primary and secondary chambers of the incinerator negatively.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No waste is to be fed into the incinerator:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1. Until the minimum temperatures have been reached;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. If the minimum combustion temperatures are not maintained;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Whenever the previous charge has not been completely combusted in the case of batch feeding;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. Until such time as the addition of more waste will not cause the design parameters of the incinerator to be exceeded.</td>
</tr>
<tr>
<td>No.</td>
<td>Parameter</td>
<td>Standards, Guideline, Criteria and Procedure</td>
</tr>
<tr>
<td>-----</td>
<td>---------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>3</td>
<td>Primary Combustion Chamber</td>
<td>The primary combustion chamber must: 1. be accepted as the primary combustion zone; 2. be equipped with a burner/s burning gas/tail or low sulphur liquid fuels. Other combustion methods will be judged on merits; 3. ensure primary air supply is controlled efficiently; 4. ensure minimum exit temperature is not less than 850°C.</td>
</tr>
<tr>
<td>4</td>
<td>Secondary Combustion Chamber</td>
<td>The secondary combustion chamber must: 1. be accepted as secondary combustion zone; 2. be fitted with secondary burner/s burning gas or low sulphur liquid fuel or any suitable fuel; 3. ensure secondary air supply is controlled efficiently; 4. ensure flame contact with all gases is achieved; 5. ensure residence time is not less than two (2) seconds; 6. ensure the gas temperature as measured against the inside wall in the secondary chamber and not in the flame zone, is not less than 1100°C; 7. ensure the oxygen content of the emitted gases is not less than 11%; 8. ensure both primary and the combustion temperatures are maintained until all waste has been completely combusted.</td>
</tr>
<tr>
<td>5</td>
<td>Particulate Removers</td>
<td>A mechanical particulate collector must be incorporated after secondary combustion chamber for removal of particulate pollutants entrained in the flue gas stream. The particulate collectors may include any of the following or a combination thereof: 1. cyclone separator; 2. electrostatic precipitators; 3. fabric filters.</td>
</tr>
<tr>
<td>6</td>
<td>Chimney/Stack</td>
<td>1. The chimney should have a minimum height of 10 meters above ground level and clear the highest point of the building by not less than 3 meters for all roofs. The topography and height of adjacent buildings within 50 meters radius should be taken into account. 2. If possible the chimney should be visible to the operator from the feeding area. 3. The addition of dilution air after combustion in order to achieve the requirement of these guidelines is unacceptable. 4. The minimum exit velocity should be 10 m/s and at least twice the surrounding wind speed (Efflux velocity = wind speed x 2) whichever is higher to ensure no down washing of exiting gases. 5. Point for the measurement of emissions shall be provided.</td>
</tr>
<tr>
<td>7</td>
<td>Instrumentation</td>
<td>1. Instrument for determining the inside wall temperature and not burner flame temperature must be provided for both primary and secondary chambers. 2. An audible and visible alarm must be installed to warn the operator when the secondary temperature drops to below the required temperature.</td>
</tr>
</tbody>
</table>
### THIRD SCHEDULE—continued

<table>
<thead>
<tr>
<th>No.</th>
<th>Parameter</th>
<th>Standards, Guideline, Criteria and Procedure</th>
</tr>
</thead>
</table>
| 9   | Location/Siting   | 1. Must be sited in accordance with the relevant local municipal authority planning scheme, the topography of the area and be compatible with premises in the neighbourhood.  
      |                   | 2. Must be housed in a suitably ventilated room.                                                            |
| 9   | Emission Limits   | 1. Combustion efficiency:                                                                                    |
|      |                   | Combustion efficiency (CE) shall be at least 99.00%.                                                          |
|      |                   | The Combustion efficiency is computed as follows:                                                             |
|      |                   | $CE = \frac{\% CO_2}{\% CO_2 + CO} \times 100$                                                            |
|      |                   | 2. The temperature of the primary chamber shall be 800 ± 50°C.                                                |
|      |                   | 3. The secondary chamber gas residence time shall be at least 1 (one) second at 1050 ± 50°C, with 3% oxygen in the stack gas. |
|      |                   | 4. Opacity of the smoke must not exceed 20% viewed from 50 metres with naked eyes.                           |
|      |                   | 5. All the emission to the air other than steam or water vapour must be odourless and free from mist, fume and droplets. |
|      |                   | 6. The Authority may require that the certificate holder have tests carried out by an accredited institution to determine stack and/or ground level concentrations of the following substances. |
|      |                   | Cadmium and compounds as:                                                                                     |
|      |                   | Cd                                                             |
|      |                   | Mercury                                                       |
|      |                   | Hg                                                            |
|      |                   | Thallium                                                      |
|      |                   | Ti                                                            |
|      |                   | Chromium                                                      |
|      |                   | Cr                                                            |
|      |                   | Beryllium                                                     |
|      |                   | Be                                                            |
|      |                   | Arsenic                                                       |
|      |                   | As                                                            |
|      |                   | Antimony                                                      |
|      |                   | Sb                                                            |
|      |                   | Bismuth                                                       |
|      |                   | Ba                                                            |
|      |                   | Lead                                                          |
|      |                   | Po                                                            |
|      |                   | Silver                                                        |
|      |                   | Ag                                                            |
|      |                   | Cobalt                                                        |
|      |                   | Co                                                            |
|      |                   | Copper                                                        |
|      |                   | Cu                                                            |
|      |                   | Manganese                                                     |
|      |                   | Mn                                                            |
|      |                   | Tin                                                           |
|      |                   | Sn                                                            |
|      |                   | Vanadium                                                      |
|      |                   | V                                                             |
|      |                   | Nickel                                                        |
|      |                   | Ni                                                            |
### THIRD SCHEDULE—continued

<table>
<thead>
<tr>
<th>No.</th>
<th>Parameter</th>
<th>Standards, Guideline, Criteria and Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hydrochloric</td>
<td>HCL</td>
</tr>
<tr>
<td></td>
<td>Hydrofluoric acid</td>
<td>HF</td>
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<tr>
<td></td>
<td>Sulphur dioxide</td>
<td>SO₂</td>
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<td>7.</td>
<td>99.99% destruction and removal efficiency (DRE) for each principal organic hazardous constituent (POHC) in the waste feed where:</td>
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<td></td>
<td>DRE = [(Win - Wout)/Win] x 100</td>
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<td></td>
<td>Where: Win = mass feed rate of the POHC in the waste stream fed to incinerator, and</td>
<td></td>
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<tr>
<td></td>
<td>Wout = mass emission rate of POHC in the stack prior to the release into the atmosphere.</td>
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<tr>
<td>8.</td>
<td>The average dioxin and furan concentration in the emissions should not exceed 60ng/m³ total dioxins and furans if measured for a period of 6 to 16 hours.</td>
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<td></td>
<td>Note: All pollutant concentrations must be expressed at O°C and 1.013 x 10⁵ N/m², dry gas and 11% oxygen correction.</td>
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<td></td>
<td>Oxygen correction is computed as:</td>
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<td></td>
<td>( E_b = \frac{21 - O_s}{21 - O_w} \times E_M )</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Where:</td>
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<tr>
<td></td>
<td>( E_b = ) Calculated emission concentration at the standard percentage oxygen concentration.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>( E_M = ) Measured emission concentration.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>( O_s = ) Standard oxygen concentration.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>( O_w = ) measured oxygen concentration.</td>
<td></td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>10</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1. Materials destined for incineration should be of known origin and composition and must be only incinerated in a furnace that is registered for the particular type of waste.</td>
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<td></td>
<td>2. A record must be kept of the quantity, type and origin of the waste to be incinerated.</td>
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<tr>
<td></td>
<td>3. The incinerator must be preheated to working temperature before charging any waste.</td>
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<td>4. The incinerator must not be overcharged.</td>
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<tr>
<td></td>
<td>5. The incinerator must be in good working order at all times and must not be used if any component fails. Any malfunction should be recorded in a log book and reported to the relevant authority.</td>
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<td>6. The incinerator operator and all relevant staff must be trained to the satisfaction of the relevant control authority.</td>
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</tbody>
</table>

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<thead>
<tr>
<th>11</th>
<th>Housekeeping</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The site where the incinerator is built must:</td>
</tr>
<tr>
<td></td>
<td>1. have running water;</td>
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<tr>
<td></td>
<td>2. have a solid floor;</td>
</tr>
<tr>
<td></td>
<td>3. have lighting if 24hrs operation;</td>
</tr>
<tr>
<td></td>
<td>4. have fly ash containerization and storage before disposal.</td>
</tr>
</tbody>
</table>
FOURTH SCHEDULE
[Regulation 16.]

WASTES CONSIDERED HAZARDOUS

The following wastes shall be considered hazardous wastes—

(a) Wastes generated from the production and import of the chemicals including germicides, fungicides, bactericides, ratcides, herbicides and other chemicals for prevention of the breeding and extermination of animals, plants and viruses; and growth promoting chemicals, germination control and other chemicals for the promotion and suppression of physiological activities of plants (hereafter referred to as “biocides, etc.”).

(b) Wastes generated from formulation of biocides, etc. for sales and grant.

(c) Wastes generated from sales and use of biocides, etc.

(a) Wastes generated from the production and import of decay-preventing agents, insect control agents and other chemicals for wood preservation (hereafter referred to as “wood preserving chemicals”).

(b) Wastes generated from formulation of wood preserving chemicals for sales and grant.

(c) Wastes generated from sales and use of wood preserving chemicals.

(a) Wastes generated from the production and import of organic solvents.

(b) Wastes generated from formulation of organic solvents for sales and grants.

(c) Wastes generated from sales and use of organic solvents.
(a) Waste tarry residues arising from refining, distillation and any parlytic treatment.
(b) Wastes generated from formulation of inks, etc. for sales and grant.
(a) Wastes generated from the production and import of inks, dyes, pigment paints, lacquers and varnishes (hereafter referred to as "inks, etc.").
(b) Wastes generated from formulation of inks, etc. for sales and grant.
(a) Wastes generated from production and import of resins, latex, plasticizers, glues/adhesives (hereafter referred to as "resins, etc.").
(b) Waste generated from formulation of resins, etc. for sales and grant.
(c) Wastes generated form sales and use of resins, etc.

Y14 Waste chemical materials arising from research and development or teaching activities, in the following facilities, which are not identified and/or are new and whose effects on man and/or the environment are not known—
(a) Research and examination institutions owned by central and local governments;
(b) universities, colleges, junior colleges, professional schools and their subsidiary research and study institutions; and
(c) institutions for research and development of products and technologies.
(a) Wastes generated from the production and import of sensitive chemicals and materials for photographs (hereafter referred to as "photographic chemicals, etc.").
(b) Wastes generated from the formulation of photographic chemicals, etc. for sales and grant.
(c) Wastes generated from the sales and use of photographic chemicals, etc.

Y19 Wastes containing metal carbonyls listed as follows—
(a) wastes containing 0.1% or more by weight or any of the following metal carbonyls—
   - Iron -pentacarbonyl, Nickel-tetracarbonyl, Methyl cyclopentadienyl manganese-tricarbonyl;
(b) wastes containing other metal carbonyls.

Y20 Wastes containing beryllium and/or beryllium compounds listed as follows—
(a) wastes containing 0.1% or more by weight of any of the following beryllium and/or beryllium compounds—
   - Beryllium, Beryllium chloride, Beryllium oxide, Beryllium nitrate, Beryllium hydroxide, Beryllium fluoride, Beryllium sulfate;
(b) wastes containing other beryllium and/or beryllium compounds.
Y21 Wastes containing hexavalent chromium compounds listed as follows—
(a) wastes containing 0.1% or more by weight of any of the following hexavalent chromium compounds—
Chromium oxychloride, Chromic acid solution, Zinc chromate, Potassium zinc chromate, Silver chromate, Strontium chromate, Sodium chromate, Lead chromate, Barium chromate, Bismuth chromate, Chromosulphuric acid, Chromium trioxide, Anhydrous Chromium, Ammonium dichromate, Potassium dichromate, Sodium dichromate, Lead chromate molybdate sulfate;
(b) wastes containing other hexavalent chromium compounds;
(c) wastes to be exported for the purpose of DI to D4 or R10 of Annex IV of the Basel Convention which cannot meet the following criteria—
(i) wastes in solid form, which cannot meet the Ambient Soil Quality Standards determined by the relevant lead agency.

Y22 Wastes containing copper compounds listed as follows—
(a) wastes containing 0.1% or more by weight of any of the following copper compounds—
Copper acetatoarsenite, Copper N, N = Ethylenebis (sarcycilideneaminolate), Cuprous chloride, Cupric chloride, Copper cyanide, Sodium cuprocyanide, Cupriethylenediamine solution, Copper arsenate, and Copper sulfate;
(b) waste containing 1% or more by weight of any of the following compounds—
Copper(II) diammonium chloride dihydrate, Potassium cupric chloride, Copper acetate, Potassium cuprocyanide, Cupric carbonate, Cuprous thiacyanate, Copper pyrophosphate, Cupric fluoride and Cuprous iodide;
(c) wastes containing copper compounds other than those listed in (a) and (b) above;
(d) wastes in solid form to be exported for the purpose of R10 of Annex IV of the Basel Convention, which cannot meet the Ambient Soil Quality Standards in terms of copper compounds.

Y23 Wastes containing zinc compounds listed as follows—
(a) wastes containing 0.1% or more by weight of any of the following zinc compounds—
Zinc dithionite, Zinc arsenite, Zinc chloride, Zinc cyanide, Zinc arsenate;
(b) wastes containing 1% or more by weight of any of the following zinc compounds—
Zinc chlorate, Zinc peroxide, Zinc permanganate, Zinc chromate, Zinc fluorosilicate, Zinc acetate, Diethyl zinc, 2, 5-Diethoxy 4- morpholinobenzenediazonium zinc chloride, Dimethyl zinc, 4-Dimethylamino-6-(2-dimethynoethoxy) tolouene-2-diazonium zinc chloride, Zinc oxalate, Zinc bromate, Zinc nitrate, Zinc thiocyanate, 3-(2-Hydroxythoxy) 4-pyrolidin- 1-ybenzenediazonium zinc chloride, Zinc, Pyrophosphate, Zinc Fluoride, 4-(Benzyl(ethyl) amino)-3- ethoxybenzenediazonium zinc chloride 4-(Benzyl 9methyl) amino)-3-ethoxybenzenediazonium zinc chloride, Zinc methylthiocarbamate, Zinc sulfate, Zinc phosphide, Zinc phosphate;
(c) wastes containing zinc compounds other than those listed in (a) and (b) above;
(d) wastes containing arsenic and/or arsenic compounds listed as follows:

Y24  Wastes containing 0.1% or more by weight of any of the following arsenic and/or arsenic compounds—

(a) Arsenic, Copper acetoarsenite, Zinc arsenite, Calcium arsenite, Silver arsenite, Strontium arsenite, Ferric arsenite, Copper arsenite, Sodium arsenite, Lead arsenite, Alkylarsenic compounds, Ethyldichloroarsine, Cacodylic acid, Sodium cacodylate, Diarsenic pentoxide, Arsenic pentfluoride, Arsenic trichloride, Arsenous trioxide, Arsenic tribromide, Acia managenese arsenate, Arsenic trifluoride, Diphenylamine chloroarsine, Diphenylchloroarsine, Tetrasenic tetrathiosulfide, Vinyzene, Arsenic acid, Zinc arsenate, Ammonium arsenate, Potassium arsenate, Calcium arsenate, Sodium arsenate dibasic, Calcium arsenate, Ferrous arsenate, Mercuric ferric arsenate, Copper arsenate, Sodium arsenate, Lead arsenate, Magnesium arsenate, Calcium arsenate flouride, Benzenearsenic acid, Potassium Metaarsenate, Sodium metaarsenate, Calcium methanearsonate, Ferric methanearsonate, Arsenic disulfide, Arsenic trisulfide;

(b) wastes containing arsenic and/or arsenic compounds other than those listed in (a) above;

(c) wastes to be exported for the purpose of D1 to D4 or R10 of Annex IV of the Basel Convention, which cannot meet the following criteria—

(i) wastes in solid form, which cannot meet the Ambient Soil Quality Standards in terms of arsenic and/or arsenic compounds;

(ii) wastes in liquid form, which cannot meet the waste water discharge standards in terms of arsenic and/or arsenic compounds;

(d) wastes to be exported for the purposes other than those listed in (c) above and which cannot meet the following criteria—

(i) wastes in solid form, which cannot meet the standards determined by the relevant lead agency in terms of arsenic and/or arsenic compounds;

(ii) wastes in liquid form, which cannot meet the effluent quality standards in terms of arsenic and/or arsenic compounds.

Y25  Wastes containing selenium and/or selenium compounds listed as follows—

(a) wastes containing 0.1% or more by weight of any of the following selenium and/or selenium compounds—

Selenium, Sodium selenite, Selenium oxychloride, Selenium chloride, Selenic acid, Sodium selenite, Selenium dioxide, Selenium disulphide, cadmium red;

(b) wastes containing 1% or more by weight of any of the following selenium and/or selenium compounds—

Selenium, Barium selenite, Ferrous selenide;

(c) wastes containing selenium and/or selenium compounds other than those listed in (a) and (b) above.

Y26  Wastes containing cadmium and/or cadmium compounds listed as follows—

(5) wastes containing 0.1% or more by weight of any of the following cadmium and/or cadmium compounds—

Cadmium Chloride, Cadmium acetate, Dihydrate, Cadmium oxide, Cadmium cyanide, Dimethyl cadmium, Cadmium bromide
(b) wastes containing cadmium and/or cadmium compounds other than those listed in (a) above;
(c) wastes to be exported for the purpose of D1 to D4 or R10 of Annex IV of the Basel Convention, which cannot meet the following criteria—
(i) wastes in solid form, which cannot meet the Ambient Soil Quality Standards in terms of cadmium and/or cadmium compounds;
(ii) wastes in liquid form, which cannot meet waste water discharge standards to soil in terms of cadmium and/or cadmium compound;
(d) wastes to be exported for purposes other than those listed in (a) above which cannot meet the following criteria—

Y27 Wastes containing antimony and/or antimony compounds listed as follows—
(a) wastes containing 0.1% or more by weight of any of the following antimony and/or antimony compounds—
Sodium antimonate, Lead antimonate, Antimony pentachloride, Antimonypentoxide, Antimonypentaflouride, Antimony trichloride, Antimony trioxide, Potassium hexahydroxantimonate (V), Antimony trifluoride, Potassiumantimonyl tartrate, Antimony lactate, Sodiummetantimonate;

(b) wastes containing 1% or more by weight of antimony;
(c) wastes containing antimony and/or antimony compounds other than those listed in (a) and (b) above.

Y28 Wastes containing tellurium and/or tellurium compounds listed as follows—
(a) Wastes containing 1% or more by weight of any of the following tellurium and/or tellurium compounds—
Tellurium, Diethyl tellurium, Dimethyl tellurium;
(b) wastes containing tellurium and/or tellurium compounds other than those listed in (a) above.

Y29 Wastes containing mercury and/or mercury compounds listed as follows—
(a) wastes containing 0.1% or more by weight of any of the following mercury and/or mercury compounds—
Mercury, Mercury benzoate, Ethylmercury chloride, Mercurous chloride, Mercuric chloride, Mercury ammonium chloride, Methylmercuric chloride, Mercuric oxycyanide, Mercury oleate, Mercury gluconate, Mercury acetate, Mercury salicylate, Mercuric oxide, Mercury cyanide, Mercury potassium cyanide, Diethyl mercury, Dimethyl mercury, Mercury (I) bromide, Mercurous nitrate, Mercuric nitrate, Phenyl mercuric hydroxide, Mercuric thiocyanate, Mercuricarsenate, Mercury (II) iodide, Mercury potassium iodide, Mercury fulminate, Mercury sulphide, Mercurous sulfate, Mercuric sulphate;
(b) wastes containing 1% or more by weight of any of the following mercury and/or mercury compounds—
   Mercurynucleate, Mercurous acetate, Phenylmercury acetate, Phenylmercuric nitrate, Thimerosal;
(c) wastes containing mercury and/or mercury compounds other than those listed in (a) and (b) above;
(d) wastes to be exported for the purpose of D1 to D4 or R10 of Annex IV of the Basel Convention, which cannot meet the following criteria—
   (i) wastes in solid form, which cannot meet the Ambient Soil Quality Standards determined by the relevant lead agency in terms of mercury and/or mercury compounds;
   (ii) wastes in liquid form, which cannot meet the waste water discharge standards to soil in terms of mercury and/or mercury compounds;
   (e) wastes to be exported for the purposes other than those listed in (d) above and which cannot meet the following criteria—
   (i) wastes in solid form, which cannot meet the standards determined by the relevant lead agency in terms of mercury and/or mercury compounds;
   (ii) wastes in liquid form, which cannot meet the effluent quality standards in terms of mercury and/or mercury compounds.

Y30 Wastes containing thallium and/or thallium compounds listed as follows—
   (a) waste, containing 0.1% or more by weight of any of the following thallium and/or thallium compounds—
      Thallium chlorate, Thallium acetate, Thalllic oxide, Thallium bromide, Thallous nitrate, Thallium iodide, Thallium sulphate;
   (b) wastes containing 1% or more by weight of thallium;
   (c) wastes containing thallium and/or thallium compounds other than those listed in (a) and (b) above.

Y31 Wastes containing lead and/or lead compounds listed as follows—
   (a) wastes containing 0.1% or more by weight of any of the following lead and/or lead compounds—
   (b) wastes containing lead and/or lead compounds other than those listed in (a) above;
   (c) wastes to be exported for the purpose of D1 or D4 or R10 in Annex IV of the Basel Convention, which cannot meet the following criteria—
   (i) wastes in solid form, which cannot meet the Ambient Soil Quality Standards determined by the relevant lead agency in terms of lead and/or lead compounds;
(ii) wastes in liquid form, which cannot meet the waste water discharge standards to soil in terms of lead and/or lead compounds;

(d) wastes to be exported or imported for purposes other than those listed in (c) above, which can not meet the following criteria—

(i) wastes in solid form, which cannot meet the standards determined by the relevant lead agency in terms of lead and/or lead compounds;

(ii) wastes in liquid form, which cannot meet the effluent quality standards in terms of Lead and or Lead compounds.

Y32 Wastes containing inorganic fluorine compound excluding calcium □enzenelisted□ as follows—

(a) wastes containing 0.1% or more by weight of any of the following inorganic fluorine compounds—
   - Fluorosilicic acid, Bromide pentfluoride, Bromide trifluoride, Bromide trifluoride dihydrate, Pottasium bifluoride, Difluorophosphoric acid, Ammonium fluoride, Potassium fluoride (spray dide), Chromic fluoric, Hydrofluoric Acid, Ammonium Hydrogenfluoride, Hydrofluoric acid, Sodium fluoride, Fluorosulphonic acid, Fluorophosphoric acid, Anhydrous hexafluorophosphoric acid, Fluoboric acid;

(b) wastes containing 1% or more by weight of any of the following inorganic fluorine compounds—
   - Ammoniumborate, Ammoniumfluorosilicate, Barium fluoride, Barium fluorosilicate, Iodine pentfluoride, Lithium borofluoride, Magnesium borofluoride, Magnesium fluorosilicate, Manganese fluorosilicate, Potassium fluoroborate, Potassium fluorosilicate, Potassium hydrogen fluoride, Sodium fluorosilicate, Sodium hydrogen fluoride, Stannous fluoride, Sodium fluoroborate, Zinc fluorosilicate;

(c) wastes containing inorganic fluorine compounds other than those listed in (a) and (b) above.

Y33 Wastes containing inorganic cyanides listed as follows—

(a) wastes containing 0.1% or more by weight of any of the following inorganic cyanides—
   - Cyanogenbromide, Hydrogen cyanide, Hydrocyanic acid aqueous, Lead cyanide, Mercury cyanide, Mercuric potassium cyanide, Nickel cyanide, Potassium cyanide, Silver cyanide, Sodium cupro cyanide, Sodium cyanide, Zinc cyanide;

(b) wastes containing 1% or more by weight of any of the following inorganic cyanides—
   - Bariumcyanide, Barium platinum cyanide, Calcium cyanide, Copper cyanide, Potassium cobalt cyanide, Potassium cupro cyanide; Potassium gold cyanide, Potassium nickel cyanide;

(c) wastes containing inorganic cyanide other than those listed in (a) and (b) above;

(d) wastes to be exported or imported for the purpose of D1 to D4 or R10 of the Basel Convention which cannot meet the following criteria—

(i) wastes in solid form, which cannot meet the Ambient Soil Quality Standards determined by the relevant lead agency in terms of inorganic cyanide;

(ii) wastes in liquid form, which cannot meet the waste water discharge standards to soil in terms of inorganic cyanide;
(e) wastes to be exported or imported for the purposes other than those listed in (d) above, which cannot meet the following criteria—

(i) waste in solid form, which cannot meet the standards determined by the relevant lead agency for hazardous wastes in terms of inorganic cyanide;

(ii) wastes in liquid form, which cannot meet the effluent quality standards in terms of inorganic cyanide.

Y37 Wastes containing organic phosphorus compounds listed as follows—

(a) wastes containing 0.1% or more by weight of any of the following organic phosphorus compounds—

- Azinphos-ethyl
- Azinphos-methyl
- Butyl phosphorotrithionate
- Carbophenothion
- Chlorfenphos (I SO)
- Chlormephos
- (6-Chloro-2-oxo-3-benzosazolyl) methyl
- 0, 0-diethyl phosphorodithioate
- Chlorthiopos
- Camaphos
- Cresydiphenyl Phosphate
- Crotophos
- Crucomate
- Demephion
- Demeton-O-methyl
- Demeton-S-methyl
- Dialfos
- Dichlorfenthion
- Dichloromethylphosphine
- Dicrotophos
- 0, 0-Diethyl-S-2 (ethylthio) ethyl phosphorodithioate
- Diethyl = 4-nitrobenzylphosphonate
- 0-0-Diethyl-0 (5-phenyl-3-isooxazolyl) phosphorothioate
- 0, 0-Diethyl-0-3,5,6-trichloro-2-pyriylphosphorothioate
- Dimefox
- 0, 0-Dimethyl-S (1,2-ethylthioethyl phosphodithioate
- Dimethyl 2,2-dichlorovinylphospate
- Dimethyl ethylthioethyl dithiophosphate
- Dimethylhydrogen phosphate
- Dimethylmethylcarbonylethylthioethyl thiophosphate
- 0-0-Dimethyl N-methylcarbamoyl-methyl dithiophosphate
- Dimethyl-S-(N-methyl-N-formylcarbamoylmethyl) dithiophosphate
- 0, 0-Dimethyl-0[3-methyl-4- (methylthio) phenyl] thiophosphate
- 0, 0-Dimethyl-0-(3-methyl-4-nitrophenyl) thiophosphate
- 0, 0-Dimethyl-S-(phenylacetacitidylethylester) dithiophosphate
- 0, 0-Dimethy phthalimid methylthiophosphate
- Dimethylmethylphosphory chloride
- Dimethyl 2,2,2-richloro-1 hydroxyethyl phosphate
- Dioxathior
- Diphenyl-2, 4.6-trimethylbenzoylephosphate-oxide
- Edifenphos
- Endothior Ethion
- Ethoatemethyl
- Ethprophos
- 0-Ethyl-0-p-nitrophenylthionobenzene phosphate
- Fenamiphos
- Fensulfothion
- Fonofos
- Hexaethyl tetraphosphate
- Hexamethylphosphoric triamide
- Heptenophos
- Isodecyl diphenylphosphate
- 2-Isopropyl 1-4 methylpyrimidinyl
- 6-diethylthiophosphate
- Isothioate
- Mecarbam
- Menazon
- Mephosolan
- Methamidophos
- 2-Methos-H-1,3,4-thiadiazolyl-(3)-methyl dimethyl phospholothiolothionate
- Methyl parathion
- Methylthriothion
- Meniphos
- Naled
- Omethoate
- Oxydisulfoton
- Oxydemetonmethyl
- Paradoxon
- Parathion
- Pirimiphosethyl
- Phenthanon
- Phosphate
- Phosphamidon
- Prothoate
- Propaphos
- Pyrazophos
- Pyrazoxon
- Quinalphos
- Scharadan
- Sulprofos
- Tetraethyl dithiopyrophosphate
- Thionazin
- Temephos
- Terblos
- Tris (1-aziridinly) phosphate oxide
- Triamiphos
- Triazophos
- Trichloronate
- Triethylphosphate
- Tris (1-aziridinly)
- phosphine sulphide
- Tris (4-methoxy-3, 5 dimethylphenyl)
- phosphine
- Trixylyl phosphate
- Tributyl phosphates
- Tri-(dimethoxyphosphinylxoy)-N-methylcs-crotonamide
- Di-(ethylether)
- phosphoric acid
- Di-(ethylhexyl) phosphoric acid
- Triallyl phosphate
- Tricresyl
- phosphate
- Tri (isorophylphenyl) phosphate
- Tri (2,3-dibromopropyl)  phosphate;
(b) wastes containing 1% or more by weight of any of the following organic phosphorus compounds—
Amidothiaate, Bialaphos, 0-4-Bromo-2-chlorophenyl-0-ethyl-S-phopyl phosphorodithioate, Bromophosethyl, Butamifos, 0-Buthyl-S-benzyll-S-ethyl phosphorodithioate, 2-chloro-1-(2,4 dichlorophenyl) vinylidethyl phosphate, DEF, Demeton, Demeton-0, Dialkyl phosphorothioate, 0-2, 4-Dichlorophenyl-0-ethyl-S-propy1phosphorodithioate, Diethyl-S-benzyl thio phosphate, Diethyl-4-chlorophenylmercaptoethylidithiophosphate, Diethyl-(1,3 dithioclopenylidene) thiophosphoramid, Diethyl-4 methylsulfonfylphenyl-thiophosphate, 0, 0-Diethyl-0-(3-oxy-2-phenyl-2H-pyridazin-6-yl) phosphorothionate, Diethyl-paradimethylamino sulfonylphenythio phosphate, Diethylthiophosphorylchrolide, 0, 0-Diisopropyl-S-benzythiophosphate, Diisopropyl-S-(ethylsulfanyl methyl)-dithiophosphate, Dimethyl-S-chlorophenylthiophosphate, 0, 0-Dimethyl-0-4 cyanophenyl phosphorothioate, 2,3 (Dimethylidithiophosphate) paradioxan, 0, 0-Dimethyl-S-2 (ethylsulfanyl)-isopropyl-thio phosphate, Dimethyl-(2-(1methyleneoxy carbonyl)-1-methylene)-phospho 0, 0-Dimethyl 0-0 (3,5,6-trichloro-2-pyridinyl) phosphorothioate, Ethyl-2-dichlorophenylthionobenzene phosphorate, 0,6-Ethoxy-2-ethylpirimidinyl-0, 0-dimethyl-phosphorothioate, Fosthiazate, Lepto- pho Mesulenos, Methylycyclohexyl-4chlorophenylthiophosphate, Octylidiphenyl, Phosphate, Phenylphosphonic dichloride, Phenylphosphoro thiodichloride, Piperophos, Propanamphos, Pyracylfolos, Sulfite Tetraethylpyrophosphate, Temavinphos, Tributoxyethyl phosphate, Tributyl phosphine, S.S.S-Tributyl phosphorothriothioate, Triethylphosphate Trimethys phosphate, Trimethyl enzene, Trioctyl phosphate Tris (chloroethyl) phosphate, Tris (B-chlorophosphyl) phosphate, Tris (dichloropropyl) phosphate;

(c) wastes containing organic phosphorus compounds other than those listed in (a) and (b) above;

(d) wastes to be exported for the purpose of D1 and D4 or R10 of Annex IV of the Basel Convention, which cannot meet the following criteria—

(i) wastes in solid form, which cannot meet the Ambient Soil Quality Standards determined by the relevant lead agency in terms of organic phosphorus compounds;

(ii) wastes in liquid form, which cannot meet the waste water discharge standards to oil in terms of organic phosphorus compounds;

(e) wastes to be exported for the purposes other than those listed in (d) above, which cannot meet the following criteria—

(i) wastes in solid form, which cannot meet the standards determined by the relevant lead agency in terms of organic phosphorus compounds;

(ii) wastes in liquid form, which cannot meet effluent quality standards in terms of organic phosphorus compounds.

Y38 Wastes containing organic cyanides listed as follows—

(a) wastes containing 0.1% or more by weight of any of the following organic cyanides—
Acetonecyanhydrin, Acrylonitrile, Adiponitrile, 2-Amino-5 (2-chloro-4 nitrophenylazo) 4-methyl-3-thiophencarbonitrile, 2,2 B Azobis-(2-hydroxymethyl) proprientrile) 2,2, B Azobis B (methylbutyronitrile), Benzonitrile, Bromobenzoylanides, Bromoxylnyl, 3-Chloro-4 methylphenyl isocyanate, Cyanazine, a-Cyano-3-phenoxybenzyl-bis
(trifluoromethyl) methyl 1-(3,4-isopropylidene) butene-1, 4-decarboxylate, Cyclohexyl isocyanate, 2,6-Dichlorobenzonitrile, dichlorophenylisocyanate, 3,3 B Dimethyl-4-4 B diphenylenediisocyanate, Diphenylmethane-4, 4-disocyanate, Ethylene cyanhydrin, Fenpropatrin, Ioxyln, Isophor disiocyanate, Lactonitrile, Melononitrile, Methacrylonitrile, Met isocyanate Phenylicetonitrile, Phenyl isocyanate, O-phthalodinitrile, Propionitrile, Trimethylhexamethylenediisocyanate, Tolylenediisocyanate;

(b) waste containing 1% or more by weight of any of the following organic cyanides—

Acrylonitrile, 2,2 B Azobis isobutyronitrile, 2,2 B Azobis (2,4-dimethyl-4-methoxyvaleronitrile) 1,1, - B Azobis (2,4- (hexahydrobenzonitrile), Buteronitrile, N-cyanoethyl-monochloroacetamide, Cyanofenphos (CYP), (RS)-a-cyanophenoxbenzyl, Cyhalothrin, Cyphenothrin, Cyfluthrin, 2, Dibromopropionitrile, 2-Dimethylaminoacetonyl, Ethyl cyanacacetate, Ethyl isocyanate, Fluvalinate, Hexamethylenediisocyanate, Isobut isocyanate, Isobutyronitrile, Isocyanatobenzotrifluoride, Isoprop isocyanate, Methoxymethyl isocyanate, Methyl isothiocyanate, 3-(N-Nitrosomethylamino) propionitrile, N-Propyl isocyanate, Terephthalonitrile, Tralomethrin, 1,2,5-Trithiocycloheptadiene-3,4,6,7-Tetranitrile (TCH);

(c) wastes containing organic cyanides other than those listed in (a) and (b) above.

Y39 Wastes containing phenol and/or phenol compounds—

(a) wastes containing 0.1% or more by weight of any of the following phenol and/or phenol compounds—

2 Aminoanthraquinon, 7-Amoni-4-hydroxy-2 naphthalene sulfonic acid, p-t Butylphenol, Carbolic oil, Chlorphenol, Coal tar, Cresols, Cyclohexylaminophenol, Dichlorophenols, 2,4-dichloro-3-methylphenol, 1,4-Dihydro-9, 10 dihydroxyanthracene, 2,4-Dinitro-6-secbutylphenoldimethyl acrylate, 4,6 Dinitro-O cresol, 2,4-Dinitrophenol, Dinoeb, Dinosebacate, Dinoterb, Dinoterbacetate, Dodecylphenol, O-Ethylphenol Heptyl- 1 (2,5 dimethyl-4) (2-methylphenylazo) phenylazo-2-naphthol, Hydroxybenzene, Isoamyl salicylate, Medinoterb, Methyl silicylate, Nitroresols, Nitrophens, Nonylphenol, Nonylphenol poly (4-12) ethoxylates, Pentachlorophenol, 4-phenoxypbenol, Picric acid, Sodium pentachlorophenate, Trichlorophenols, 2-(thiocyanatomethylthio) benzothiasol, Xylenols;

(b) waste containing 1% or more by weight of any of the following phenol and/or phenol compounds—

2 Amino-4-chlorophenol, Aminophenols, Ammonium dinitro-O cresolate, Ammonium picrate, Chlorocresols, Diazodinitrophenol, 2,4-Dinitro-cyclohexylphenol, 2,4-Dinitro-6-(1-methylpropyl) phenol Dinotrophenolate, Alkali metals, Dinitroresorcinol, Dyes, Hydroquinone, Hydroxysulfonic acid, N-Methylcarbamyl-2-chlorophenol (CPMC), 1 naphtho, Resorcinol, Sodium-2 4-Dichloro-6-nitroph enolate (DNCP) Sodiumdinitro-O-cresolate, 2,4,6-Trinitroresolcinol;

(c) wastes containing phenol and/or phenol compounds other than those listed in (a) and (b) above.

Y40 Wastes containing ethers listed as follows—

(a) wastes containing 0.1% or more by weight of any of the following ethers—
-Anisidine, 2-(2-aminoethoxy) ethanol, 2-Amino-dimethoxypirimidine, a-{1-[(allyloxy) methyl]-2(nonylphenoxy) ethyl} -w-hydroxypoli (n=1-100) (oxyethylene), Allylglycidylether, Alkaryl polyether (C9-C20
Alcohol (C6-C17) sec-poly (3-12) thoxylates, Alcohol (C12-C15) poly (1-11) ethoxylates, Alcohol (C13-C15) 1,2-Butylene oxide, Butyl glycidyl ether, Butyl hydroxy anisol, 2-tButyl-6-nitro-5-p-(1,3,3,3-tetramethylbutyl) phenoxyl benzoxazole, Carbofuran, 4-Chlorobenzyl-4-ethoxyphenyl ether, p-(2-Chloroethyl) anisol, m-Chloromethylanisol, Coumafuryl, p-Cresidine, Endothal sodium, 2, 3-Epoxy-1-propanol, 2,3-Epoxypropyl-acetate, 2-(2,3-Epoxypropyl)-6-methoxyphenyl-acctate, a-2, 3-Epoxypropoxyphenyl-w-hydropolphenol(n=17) [2-(2,3-epoxypropoxy) benzylidene-2,3-epoxypropoxyphenylene], Ethyleneglycol isopropyl ether, Ethyleneglycol methylbutyl ether, Ethyleneglycol monoaacrylate, Ethyleneglycol monobutyl ether, Ethyleneglycol monobutyl ether acetate, Ethyleneglycol monoethyl ether, Ethyleneglycol monoethyl ether acetate, Ethyleneglycol monomethyl ether, Ethyleneglycol monomethyl ether acetate, Ethyleneglycol mono-n-propyl ether, Ethyl 3-ethoxypropionate, Safrole, Propylene oxide, Di-(2-chloro-iso-propyl) ether, B, B' - Dichloroethyl ether, 3,3' –Dichloro-4 4'-diaminodiphenyl ether, 1,3-Dichloro-2-methoxy-5-nitrobenzene, Disodium=6-(4-amino-2,5-dimethoxyphenylazo)-3-[4-(4 amino-sulfonatephenylazo)]-2 4-Sodium 2,5-dimethoxyphenylazo]-4- hydroxy-2-naphthalenesulfonate, Diphenyl ether, Dipropylene glycol monobutyl ether, Dipropylene glycol monomethyl ether, Dipropylene glycol monoethyl ether, Styrene oxide, Petroleum ether, Tetrahydrofuran, Dodecylphenoxybenzene disulphonate (sols.), Drazoxolan, Triethylene glycol monoethyl ether, Triethylene glycol monomethyl ether, 2, 4, 6 Tris(chloromethyl)-1, 3, 5-tioxane, 3, 3, 3-Trifluoro-1, 2-epoxypropane, Tripropylene glycol monomethyl ether, Trimethylolpropane polyethyolxyolate, 5-[N,N-Bis-(2-acetoxyethyl)aminol]-2-[2bromo-4,6-dinitophenylazo]-4-methoxyacetanilide, 1,6-Bis(2,3-epoxypropoxy) naphthalene, 4,4'-Bis (3-epoxypropoxy) biphenyl, 1,1-Bis[p-(3,3-epoxypropoxy) phenyl] ethane, 1,1-Bis[p-(3-chloro-2-hydroxypropoxy) phenyl] ethane, Bis(chloromethyl) ether, 4,6-Bis(difluoromethoxy)-2-methylthiopyrimidine, Tributylin oxide, Bisphenol A diglycidyl ether, Diglycidyl ether of Bisphenol F, Ethyl vinyl ether, Phenylglycidylether (RS)-1-(4-Phenoxyphenoxy)-2-propanol, Dihydro-2 (3H) – furanone, Butylxyl, Brucine, Furfural, Furfurylalcohol, B-Propiolactone, 2,3-Epoxypropyl-propionate, Propylene glycol monoalkyl ether, Propylene glycol monomethyl ether acetate, Ropoxur, 1-Bromo-4-(2,2 dimethoxyethoxy)-2,3-dimethylbenzene, 1,1'–[Oxybis(methylene)bis(benzene)] Polyethylene glycol monomethyl ether, Methylchloromethyl ether, 2-Methoxy-2-methylpropene, 4-Methoxy-2,2', 4'–trimethyldiphenylamine, 1-(4-Methoxyphenoxy -2-(2-methylphenoxy) ethane, Morpholine, Resorcinol diglycidyl ether, Rotenone;  
(b) wastes containing 1% or more by weight of any of the following ethers —  
Acetal , Anisol, N-Aminopropylmorpholine, Allilylether, Ethylpropyl ether, Ethyleneglycol diethyl ether, Ethyleneglycol diglycidyl ether, Ethyleneglycol dimethyl ether, 3-Ethoxypropylamine, 1,2-Epoxy-3-ethoxypropane, Glycidol, Chloroethyl vinyl ether, Chloromethyl ethyl ether, Diallil ether, Diethyleneglycol dimethyl ether, Diethyleneglycol monocetyl ether, Di-2-ethoxyethyl peroxydicarbonate, 3,3 Diethoxypropene, Diethoxymethane 2,5-Diethoxy-4-morpholinobenzenediazonium zine chloride, 1,3-Dioxane, Dioxolan, 2,3– Dihydropyraie, Diphenylsulphide, Dibutyl
ether, Dipropyl ether, 4-Dimethylamino-6-(2-dimethyaminoethoxy)toluene-2-diazonium zinc
chloride, Dimethyldiethoxysilane, Dimethyldioxane,
Dimethoxyisopropylperoxydicarbonate, 1,1-Dimethoxyethane,
Dimethoxybutyl peroxycarbonato, 2,2-Dimethoxypropane,
Tetrahydrofururylamine, Triglycol dichloride, Trinitroanisole,
Trinitrophenetol, Nitroanisol, Neopentylglycol diglycidyl ether, 3-
(2-Hydroxyethoxy)-4-pyrrolidin-1-ylbenzenediazoniurn zinc chloride,
Isobutyl vinyl ether, Phenetidines, Phenetole, Phenoxyethylacrylate,
Ethylbuthyl ether, n-Butyl methyl ether, Furan, Furfurylamine,
Furfurylmercaptan, 2-Bromoethylthylether, 4-[Benzyl (ethyl)
amino]-3-ethoxybenzenediazoniurn zinc chloride-[Benzyl(methyl)
amino]-3-ethoxybenzenediazoniurn zinc chloride, Benfuracarb,
Tetrahydrofururyl methacrylate, Methylal, Methyltetrahydrofuran,
2-Methylfurun, Methylpropyl ether, Methyl-3-methoxybutanol, N-
Methylmorpholine, 4-Methoxy-4-methylpentane-2-one;

c) wastes containing ethers other than those listed in (a) and (b) above.

Y41 Wastes containing halogenated organic solvents listed as follows—

(a) wastes containing 0.1% or more by weight of any of the following
halogenated organic solvents—
Chloropropanes, Chlorobenzene, Chloroform, Carbontetrachloride,
Dichloroethanes, Dichloroethylenes, Dichloropropenes,
Dichlorobenzene, Methylenechloride,
Dibromoethanes, Tetrachloroethane, Tetrachloroethylenes,
Tetrafluoroethanes, Tetrabromomethane, Trichloroethanes,
Trichloroethylene, Trichloro-trifluoroethanes, 1,2,3Trichloropropane,
1,2,4Trichlorobenzene, Pentachloroethanes;
(b) wastes containing 1% or more by weight of any of the following
halogenated organic solvents—
1 ,1-Dichloro-1-nitroethane, 1,4-Dichlorobutane, Dichloropentanes,
Bromiform;
(c) wastes containing halogenated organic solvents other than those
listed in (a) and (b) above;
(d) wastes in liquid form to be exported for the purpose of D1 to D4 or R10
of Annex VI of the Basel Convention, which cannot meet the waste
water discharge standards to soil in terms of tetra-chloro-ethylene and/
or tri-chloro-ethylene;
(e) wastes to be exported for the purposes other than those listed in the
above (d), which cannot meet the following criteria—

(i) wastes in solid form, which cannot meet the standards determined by the relevant
lead agency for hazardous wastes in terms of tetra-chloro-ethylene and/or tri-chloro-
ethylene;
(ii) wastes in liquid form, which cannot meet the standards of the effluent quality
standards in terms of tetra-chloroethylene and/or tri-chloro-ethylene.

Y42 Wastes containing organic solvents excluding halogenated solvents—

(a) wastes containing 0.1% or more by weight of any of the following
organic solvents—
Acrolein, Diisonoyny adipate, Acetaldehyde, Ethyl acetoacetate, Methyl
acetoacetate, Acetophenone, Acetone, Aniline Allylalcohol,
Alkylbenzenes, benzylbenzoate, Methyl benzoate, Isoamy1 alcohol,
Isooctanol, Isooctane, Isononyl alcohol, Isobutanol, Iso Butylamine,
4-Methyl-2-pentanone, Isopropylamine, Isopropyl alcohol, Isopropyl
cyclohexane, Isobutylic toluene, 3-Methyl-2-butanol, Isopentane,
Isopentene, Isobutyric acid, Ethanolamine, Ethylanilines, Ethylamine
, Ethylcyclohexane, N Ethyl cyclohexylamine, 2-Ethylbutanol, N Ethylbutylamine, Ethyl-butylketone, 2-Ethyl-3-propyl acrolein, Ethyl-propyl ketone, 2-Ethylhexanol, 2-Ethylhexylamine, Ethyl n-pentyl ketone, 2-Butanone, Ethyleneglycol diacetate, Ethylene glycol, Ethylenediamine, Octanol, Octane, Octanes, Formic acid, Isobutyl formate, n-Butyl formate, Methyl formate, Quinoline, Dimethyl succinate, Acetic acid, Isobutyl acetate, Isopropyl acetate, Isovaleric acid, Ethyl acetate, Ethylbutyl acetate, n-Octyl acetate, Cyclohexyl acetate, n-Decyl acetate, n-Nonyl acetate, Vinyl acetate, 2-Phenyl ethyl acetate, Butyl acetate, sec-Butyl acetate, n-Propyl acetate, n-Hexyl acetate, sec-Hexyl acetate, Heptyl acetate, Benzyl acetate, Pentyl acetate, sec-Pentyl acetate, Methyl acetate, Methylpentyl acetate, Mesityl oxide, Diisobutylamine, Diisobutyl ketone, Diisopropanolamine, Disopropylamine, N, N e,Diethylaminomethanol, Diethylamine, Diethilenetriamine, Cyclohexanol, Cyclohexanone, Cyclohexene, Cyclohexylamine, Cycloheptane, Cyclopentane, Cyclohexane, Cycliclohexylamine, Di-n-butylamine, Dipropylamine, Dipentene, N, N-Dimethylethylamine, N, N-Dimethylaniline, Dimethylamino azobenzene, 2-Dimethylaminoethanol, 2,6-Dimethyl-4-heptanone, N, N-Dimethyl formamide, Diethyl oxide, Camphor oil, Styrene, Butyl stearate, Tetrahydrothiophene-1, I-dioxide, Petroleum naphtha, Petroleum benzine, Dimethyl sebacate, Solvent naphtha, Diethyl carbonate, Dimethyl carbonate, Decanol, Decene, Tetraethylenepentamine, Tetrahydropropylenoaldehyde, Turpentine oil, Dodecanol, Dodecylamine, Triethanolamine, Triethylamine, Trietilenetetramine, Tributylamine, Tripropylamine, Toluidine, Napthalene, Nitroethane, Nitroalkanes, O-Nitrotruenes, Nitropropanes, Nitrobenzenes, Nitromethane, Ethyl lactate, Butyl lactate, Carbon disulfide, Nonanol, Nonane, Nonene, Paraldehyde, Methyl palmitate, Picolines, 4-Hydroxy-4-methyl-2-pentanone, Pinenes, Pyridine, Phenyl ethyl alkyl, I-Phenyl-ixyllethane, n-Butanol, 2-Butanone, Dialkyl phthalates, Bis (diethylenglycol) phthalate, Butyl benzylphthalate, Butanediols, n-Butylamine, sec-Butylamine, tert-Butylamine, 1,3-Propane sultone, Propionic acid, n-Amyl propionate, Ethyl propionate, n-Butyl propionate, Methylpropionate, Propylamine, Hexanol, Hexane, Hexenes, Heptanols, Heptane, n-Heptene, Benzyl alcohol, Benzene, 1,3-Pentadiene, Pentanols, n-Pentane, Pentenes, Formamidine, White spirit, Di-n-butyl maleate, Methyl myristate, Methanol, Methallyl alcohol, Methylamine, Methyl iso-amylketone, 7-Methyl-1, 6-octadiene, 2-Methylcyclohexanol, Methylcyclohexanone, Methycyclohexane, Methylcyclopentane, I-Methyl naphthalene, Methyl n-pentyl ketone, Methyl butanol, Melju, Nitu, Letane, Methyl butanol, 2-Methyl hexane, Methyl n-hexylketone, Methyl heptyl ketone, Methylpentanol, 2-Methyl pentane, 2-Methyl-1-pentane, 4-Methyl-1-pentane, Ethyleneglycol monoacetate, Methyl laurate, Butyric acid, Ethyl butyrate, Vinyl butyrate, n-Butyl butyrate, Methyl butyrate, Ligroin, Dimethylsulfide, Dimethylsulfate;

(b) wastes containing 1% or more by weight of any of the following organic solvents—

Methyl valerate, Methyl isopropenyl ketone, Isobutyl isobutyrate, Isopropyl isobutyrate, Ethyl isobutyrate, N-Undecane, Ethyl alcohol, N-ethyltoluidine, Allyl formate, Ethyl formate, Propyl formate, Pentyt formate, Allyl acetate, Isopropenyl acetate, tert-Butyl acetate, Diallilamine, Diisopropyl ketone, Diethyl ketone, Diethyleneglycol, Cyclohexene, Cycloheptene, Cycropentanol, Cycropantanone, Dipropyl ketone, Dimethylcyclohexane, Dimethyl
sulfoxide, 2,3-Dimethylbutane, 1,3-Dimethylbutylamine, Dioctyl sebacate, Diethyl sebacate, Thiophene, n-Decane, Tetrahydrothiophene, Terpinolene, Triallilamine, Trimethylene glycol, Methyl lactate, Dimethyl disulphide, Acetyl methyl carbinol, Vinyltoluene, Piperidine, 3-Butanal, Butylmercaptan, 1,4-Butynediol, n-Propanol, Isopropyl propionate, Isobutyl propionate, 4-Methyl-1,3-dioxacyclopentan-2-one, 1,2-Propylene diamine, 2-Methyl-2,4-pentanedil, Pentamethylheptane, Pentane-2,4-dione, Trisopropyl borate, Ethyl borate, Trimethyl borate, Butyric anhydride, N-methylaniline, Methyl vinyl ketone, N-Methylpiperidine, Methyl propyl ketone, 5-Methylhexan-2-one, Isopropyl butyrate, Isopentyl butyrate, Pentyl butyrate;
(c) wastes containing organic solvents other than those listed in (a) and (b) above.

Y45 Wastes containing organohalogen compounds other than substances referred to in this Schedule, listed as follows—

(a) wastes containing 0.1% or more by weight of any of the following organohalogen compounds—

acid, Methyldichloroacetate, 3, 3’-Dichloro-4,4’-diaminodiophenylmethane, 3,5-Dichloro-4-(1,1,2,2-tetrafluoroethoxy) aniline, 1,4-Dichloro-2-trichlorosilyl-2-bute, 2,4-Dichloro-5 trifluoromethylnitrobenzene, 1,4-Dichloro-2-nitrobenzene, 2,2-Dichloro-5-nitrobenzozenon, 2,4-Dichlorophenoxyacetic acid diethanolamine, 2,4-Dichlorophenoxyacetic acid diisopropanolamine, 2,4-Dichloro-3 fluorene trobenzene, 1,3-Dichloro-4-fluorobenzene, 2,3-Dichloro-1-propanol, 2,2-Dichloropropionioniccid, Methyl 2,3-dichloropropionate, Dichlorobromomethane, 1,6-Dichlorohexane, 2,6-Dichloro-3 perchloromethyltoluene, 4,5-Dichloro-2-perchloromethyltoluene, Dichlorobenzidine, 2,2,6-Trichloro-3-pentane, 2,4-Dichloro-3 pentanone, 2,6-Difluoroaniline, 3,4-Difluoronitrobenzene, 2-Dibromoethylene 2’(2,6-Dibromo-4nitrophenylazo)-5-diethylaminomucoo tosine, 2,3-Dibromopropionate, Dibromobenzene, Simazine, Acetyl bromide, Allyl bromide, Sulfonate, Cyclohexyl-1-iodoethyl=carbonate, DDT (chlorophenothane), 2,4 DB(2,4-Dichlorophenoxy) butyc acid, Dieldrin, 2,2,6-Tetrachlorocrochoxan, 2,2’ 4,4’-Tetrachlorobenzophenon, Tetrahydro-5 5-Dimethyl-2(1H)pyrimidinone [p-trifluoromethy thy]-a-[p-trifluoromethyl] styrlyCynamiliden hydrazine, 2,2,3,3-Tetrafluoroacetan, Diuron, Telodrin, Tinapheine, 1-(4 Chlorophenony)-3,3-dimethyl-1-(1H-1, 2,4triazol-1-yl)-2-butanone Trichloroaoycetylchloride, 2,2,6-Trichloro-6-(1-chloroisobutyril) cyrohexanom, Trichloroacetic acid, 2,4,6-Trichloro-1,3,5 triazine, 2,2,3-Trichloro-3-phenyl-1, 1-propanediol, 2,4,5 Trichlorophenoxyacetic acid, Trichlorobutene, Perchloromethylmercapan, 2-Trichloromethyl-5-(4hydroxyxylyl)-1,3,4-oxadiazole, Sodium trifluoroacetate, 2,3,4 Trifluoronitrobenzene, Nitroenzotrifluoride, Trimezloactylchloride, Trimethylchlorosilane, Sodium=4-(2,4-dichloro-mtoluol)-1,3 dimethylpyrazole-5-oleate, Nitroen, Paraquat, 5’-Bis(2-acetoxyethyl) amino]-2’-(2chloro-4-nitrophylazo) acetonilide 4- (p-Bis(2 chloroethyl) amino) butyc acid, Odemethylivalate 2-t-Butyl-5-chloro-6-nitro-benzooxazole, O-3-t-Butylphethyl-chlorothioformate, 2-Chloro-1-propanol, 4-Bromo-3-oxobutoxyanilide, 1-Bromo-2 chloroethene, Ethyl bromoacetate, 3-Bromopropionic acid, Ethyl 3-bromopropionate, (E)-3-[p-(Bromomethyl) phenyl] acryl acid, Ethyl (E)-3-[p-(bromomethyl) phenyl] acrylate, 3-Bromo-2-methylpropionic acid, 4-Bromo-2-methoxyimino-3 oxobutyryl=chloride, Hexachlorocyclohexane, Hexachloro-1,3 butadiene, Hexachlorobenzene, Heptachlor, Perfluoropropoxy-1,1,2 trifluoroethene, 1-Benzyl-2-(chloromethyl) imidazole=chloride, Hexachloro-hexahedra-methano-dioxathiepine oxide, N-[B-(benzol) furan-2-yl) acryl-N’-trichloroacetohydrazid, Pentachloronaphthalene, Pentaufluoriodoethene, Mirex, 2-Methyl-4 chlorophenoxy-acetic acid, Methyltrichlorosilane, 1,2-Methyl-3 trifluoromethylaniline, Methylphenyldichlorosilane, Methachlor, 2-Mercaptobenzothiazol, Monofluoroacetic amide, Acetyl iodide, Allyl iodide, Methyl iodide, 3-Iodopropionic acid;

(b) wastes containing 1% or more by weight of any of the following organohalogen compounds—

Isopropyn-N-(3-chlorophenyl) carbamate (IPC), Imidacloprid, Echelimozole, Ethychlozate, Epibrhythdrin, (4-Chloro-2-methylphenoxy) acetic acid, Isobutyl chloride, Butyl chloride, Propionyl chloride, Pentyl chloride N’-(2-Methyl-4 chlorophenyl)-N,N-dimethylformamidine chloride, Oxadiazon, 2-
Chloro-4, 5-dimethylphey-N-methylcarbamate, Chlorphenamidine-
[3,5-Dichloro-4(3-chloro-5-}
trifluoromethyl-2-pyridyloxoy) phenyl]-3-(2, 6-difluorobenzoyl)urea, Chloromequat, Chloroacetonitril, Chloroacetophenone, Chloroanisidine, Allyl chlorofomate, Isobutyl chlorofomate, Isopropyl chlorofomate, Ethyl chlorofomate, 2-Ethoxyethyl chlorofomate, Chloromethyl chlorofomate, Cyclobutyl chlorofomate, Phenyl chlorofomate, n-Butyl chlorofomate, sec-Butyl chlorofomate, t-Butylcyclohexyl chlorofomate, 2-Butoxyethyl chlorofomate, n-Propyl chlorofomate, Benzyl chlorofomate, Methyl chlorofomate, Isopropyl chloroacetate, Ethyl chloroacetate, Sodium chloroacetate, Vinyl chloroacetate, Methyl monochloroacetate, 1-Chloro-1,2-dibromoethane, 2-Chloropridine, Chlorobutanes, 3-Chloro-1 propanol, Glycerol α-monochlorohydryn, Isopropyl 2-chloropropionate, Ethyl 2-chloropropionate, Methyl 2-chloropropionate, 1-Chloro-3-bromopropene, Dichlorobenzylcyanic acid ethyl ester, p-Chlorobenzoil chloride, Chlorobenzotrifluorides, 1,1-Bis(p-chlorophenyl)-2,2,2-trichloroethanol, 2,4,6-Trichlorophenyl-4-nitrophenyl ether, 1,4,5,6,7,7-Hexachlororaciclo(2,2,1) hept-5-ene-2,3-d-carboxylic acid di-2-propenylester, Diclorodinitromethane, Dichlorobutane, 1,3-Dichloroacetone, 2,5-Dichloroaniline, 3,5-Dichloroaniline, B, B′-Dichloropropachlor o normal 1,1′-Ethylene-2, 2′-dipyridilidibromide, Dibromochloropropene 3,5-Dibromo-4-hydroxy-4′-nitroazobenzene (BAB), 1,2-Dibromobutan-3-one, m-Dibromobenzen, Bromoacetone, Isopropyl bromide, Ethyl bromide, Xylo lipid bromide, Diphenylmethyl bromide, Phencacyl bromide, n-Buthyl bromide, 2-Bromobutane, Benzyl bromide, Thiocloromethyl, 1,1,2,2-Tetrachloronitoroethane, Methyl tricloroacetate, Trichloronitroethylene, 2,4,5-Trichlorophenoxyacetic acid butoxyethyl ester, 2,4,5-Trichlorophenoxyacetic acid methoxyethyl ester, 2,4,6-Trinitrochlorobenzene, Trinitrofluorenone, Trifluoroacetate acid, Trifluoromethanesulfonic acid, 2-Trifluoromethylanilide, 3-Trifluoromethylanilide, N,N′-[1,4-Piperazinediylybis(2,2,2-trichloroethylidene)] bisformamide, Nitrobromobenzen, n-Valerylchloride, Halofuginone, Isopropyl p,p′-dibromobenzilate, Fluoroaniline, Fluoroacetic acid, Fluorotoluene, Fluorobenzen, Fulfosamid, Methyl bromoacetate, 3-Bromopropyne, Bromobenzene, 2-Brompentane, l-Bromo-3-methylbutane, Bromomethylpropane, Hexachloroacetone, Hexachloro-1,3-cyclopentadiene, Hexachloroethene, Hexynhiazox, Permethrin, Benzo trifluoride, Benzoate pentytrichlorosilane, Methylaldehy chloride, Methyl bromoacetone, Sodium fluoroacetate, Monofluoroacet-p-bromoanilide, N-(p-Bromobenzyl) monofluoroacetamide, n-Butyl iodide, Benzyl iodide, 2-Iodobutane, Iodopropanes, Iodomethylpropane, Hexafluoroacetone;

(c) waste containing or contaminated with polychlorinated biphenyls (PCBs) and/or polychlorinated triphenyls (PCTs) and/or polybrominated biphenyls (PBBs) of 50 ppm or more by weight;

(d) wastes other than the organic halogen compounds given in (a), (b) and (c) (excluding wastes listed in other items);

(e) wastes to be exported for the purpose of D1 to D4 or R10 of Annex IV of the Basel Convention, which cannot meet the following criteria—

(i) wastes in solid form, which cannot meet the Ambient Soil Quality Standards in terms of PCB determined by the relevant lead agency;

(ii) wastes in liquid form, which cannot meet the waste water discharge standards to soil in terms of PCB;
(f) wastes to be exported or imported for purposes other than those in (e) above, which cannot meet the following criteria—

(ii) wastes in solid form, which cannot meet the standards in for hazardous wastes in terms of PCB;

(ii) wastes in liquid form, which cannot meet the standards for effluent quality standards in terms of PCB.

FIFTH SCHEDULE
[Regulation 16.]

LIST OF HAZARDOUS CHARACTERISTICS

<table>
<thead>
<tr>
<th>UN CLASS</th>
<th>CODE</th>
<th>CHARACTERISTICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>H1</td>
<td>Explosive</td>
</tr>
<tr>
<td></td>
<td></td>
<td>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 or producing gas at such a temperature and pressure and at such a speed as to cause damage to the surroundings.</td>
</tr>
<tr>
<td>3</td>
<td>H3</td>
<td>Flammable Liquids</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The word &quot;flammable&quot; has the same meaning as &quot;inflammable&quot;. Flammable liquids are liquids, or mixtures of liquids, or liquids containing solids in solution or suspension (for example paints, varnishes, lacquers and others 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-cup tests and closed-up tests are not strictly comparable and even individual results by the same tests are often variable, regulations varying from the above figures to make allowance for such difference would be within the spirit of this definition).</td>
</tr>
<tr>
<td>4.1</td>
<td>H4.1</td>
<td>Flammable Solids</td>
</tr>
<tr>
<td></td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>4.2</td>
<td>H4.2</td>
<td>Substances or wastes liable to spontaneous combustion</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Substance 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.</td>
</tr>
<tr>
<td>4.3</td>
<td>H4.3</td>
<td>Substances or wastes which, in contact with water emit flammable gases</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Substances or wastes which, by interaction with water, are liable to become spontaneously flammable or give off flammable gases in dangerous quantities.</td>
</tr>
<tr>
<td>5.1</td>
<td>H5.1</td>
<td>Oxiding</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Substances or wastes which, while in themselves not necessarily combustible, may generally, by yielding oxygen, cause or contribute to the combustion of other materials.</td>
</tr>
<tr>
<td>UN CLASS</td>
<td>CODE</td>
<td>CHARACTERISTICS</td>
</tr>
<tr>
<td>----------</td>
<td>------</td>
<td>----------------</td>
</tr>
</tbody>
</table>
| 5.2      | H5.2 | Organic Peroxides  
          |               | Organic substances or wastes which contain the bivalent O-O-structure are thermally unstable substances which may undergo exothermic self accelerating decomposition. |
| 6.1      | H6.1 | Toxic or poisonous (Acute)  
          |               | Substances or wastes liable either to cause death or serious injury to the human health if swallowed or inhaled or by skin contact. |
| 6.2      | H6.2 | Infectious substances extremely hazardous to health  
          |               | Substances or wastes containing viable micro-organisms or their toxins which are known or suspected to cause disease in animals or humans. |
| 8        | H8   | 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 in the means of transport; they may also cause other hazards. |
| 9        | H10  | Liberation of toxic gases in contact with air or water  
          |               | Substances or wastes which by interaction with air or water, are liable to give out toxic gases in dangerous quantities. |
| 9        | H11  | Toxic (delayed or chronic)  
          |               | Substances or wastes which, by interaction with air or water, are liable to give out toxic gases in dangerous quantities.  
          |               | Substances or wastes which, if they are inhaled or ingested or if they penetrate through the skin may involve delayed or chronic effects, including carcinogenicity. |
| 9        | H12  | Ecotoxic  
          |               | Substances or wastes which, if released present or may present immediate or delayed adverse impacts to the environment by means of bio-accumulation and/or toxic effects upon biotic systems. |
| 9        | H13  | Capable, by means, after disposal, of yielding another material e.g. leachate which possesses any of the characteristics listed above. |
| 10       | H14  | Radioactive waste |
| 11       | H15  | Persistent waste; waste which contaminate the environment for long periods of time. |
| 12       | H16  | Carcinogenic wastes which may lead to development of cancer in human beings or animals. |

SIXTH SCHEDULE

FORM I

[FORM NEMA/WM/I]

(Regulations 20 and 21)

(To be filled in triplicate)

APPLICATION FOR TRANSBOUNDARY MOVEMENT OF WASTE

(FOR EXPORT OR TRANSIT PURPOSE ONLY)

1. NOTIFIER*

<table>
<thead>
<tr>
<th>Name:</th>
<th>Telephone:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address:</td>
<td>Telefax:</td>
</tr>
<tr>
<td></td>
<td>E-mail:</td>
</tr>
</tbody>
</table>

Contact person (name, address, telefax, e-mail):

<table>
<thead>
<tr>
<th>Name:</th>
<th>Telephone:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address:</td>
<td>Telefax:</td>
</tr>
<tr>
<td></td>
<td>E-mail:</td>
</tr>
</tbody>
</table>

Process by which the waste was generated:

Site of generation:

2. GENERATOR(S) OF WASTE

<table>
<thead>
<tr>
<th>Name:</th>
<th>Telephone:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address:</td>
<td>Telefax:</td>
</tr>
<tr>
<td></td>
<td>E-mail:</td>
</tr>
</tbody>
</table>

Contact person (name, address, telephone, telefax, e-mail):

Process by which the waste was generated:

Site of generation:

3. REASON FOR WASTE EXPORT

- Why the waste cannot be disposed of in the country of origin
- Why the waste has to be exported/imported through Kenya

4. WASTE

<table>
<thead>
<tr>
<th>Description of the waste:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y number:</td>
</tr>
<tr>
<td>Shipping name:</td>
</tr>
<tr>
<td>Physical state at 20°C:</td>
</tr>
</tbody>
</table>

- Powder
- Solid
- Waste/viscous
- Sludge
- Liquid

- Gaseous
- Other (specify)

Estimated quantity (kg or l) of the shipment:

Type of packaging:

Number of packages:

Special handling requirements including emergency provisions in case of accidents:

Method of disposal:
SIXTH SCHEDULE, FORM I—continued

5. EXPORT/IMPORTER OF THE WASTE

Competent Authority and details of approval
Exporter/Importer of the waste in the country of origin/destination
Name: __________________________ Telephone: __________________________
E-mail: __________________________ Teletax: __________________________

6. DISPOSER OF WASTE

Contact person in case of emergency:
Name: __________________________ Telephone: __________________________
E-mail: __________________________ Teletax: __________________________

Approximate date of disposal:
Actual site of disposal:
Signature and official stamp of disposer:

7. TRANSIT

Projected length of time the waste shipment shall be in transit in Kenya territory
Expected date of entry
Expected date of exit
Means of transport envisaged:
Information relating to insurance:

(Guarantee that the person responsible shall fully compensate any damage caused to human health, property or the environment by the waste in question during transit.)

8. DECLARATION

I/We* ______________________________________________________________________ being the
exporter/importer* hereby declare that on ________________, I/We entered into a contract
with the disposer and that I/We shall be bound by the terms of the said contract (attach a copy of
contract).

Signed: ______________________________________________________________________
(Exporter/Importer*)

I/We* ______________________________________________________________________ being the
exporter/importer* hereby guarantee/declare that the above information is correct and true.

Signed: ______________________________________________________________________
(Exporter/Importer*)

* Delete whichever is not applicable

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[Issue 1] E12 - 210
SEVENTH SCHEDULE

[Regulation 28.]

CATEGORIES OF BIOMEDICAL WASTE

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Infections waste</td>
</tr>
<tr>
<td></td>
<td>Waste suspected to contain pathogens e.g. laboratory cultures, waste from isolation wards, tissues (swabs), materials, or equipment that have been in contact with tubings, catheters, IGS toxins, live or attenuated vaccines, soiled plaster casts and other materials contaminated with blood infected patients, excreta.</td>
</tr>
<tr>
<td>2</td>
<td>Pathological waste</td>
</tr>
<tr>
<td></td>
<td>Human and animal tissues or fluids, e.g. body parts blood and other body fluids, fetuses, animal carcasses.</td>
</tr>
</tbody>
</table>
SEVENTH SCHEDULE—continued

3. Sharps
   Sharp waste, e.g. needles, infusion sets, scalpels, knives, blades, broken glass that may cause puncture and cuts. This includes both used and unused sharps.

4. Pharmaceutical waste
   Waste containing pharmaceuticals, e.g. pharmaceuticals that are expired or no longer needed; items contaminated by or containing pharmaceuticals (bottles, boxes).

5. Genotoxic Waste
   Waste containing substances with genotoxic properties, e.g. waste containing cytostatic drug (often used in cancer therapy), genotoxic chemicals.

6. Chemical waste
   Waste containing chemical substances e.g. laboratory reagents; film developer, disinfectants, (disinfectants) that are expired or no longer needed solvents.

7. Waste with high content of heavy metals
   Batteries, broken thermometers, blood-pressure gauges, etc.

8. Pressurised containers
   Gas cylinders, gas cartridges, aerosol cans.

9. Radioactive waste
   Waste containing radioactive substances, e.g. unused liquids from radiotherapy or laboratory research, contaminated glassware, packages, or absorbent paper, urine and excreta from patients treated or tested with unsealed radionuclides, sealed sources.

10. General solid waste
    Waste generated from offices, kitchens, packaging material from stores.

11. Micro-organisms
    Any biological entity, cellular or non-cellular capable of replication or of transferring genetic material.

EIGHTH SCHEDULE

[Regulation 29.]

COLOUR CODE FOR BIOMEDICAL ADOPTED FROM THE WHO COLOUR CODE

PART I

<table>
<thead>
<tr>
<th>Type of Waste</th>
<th>Colour of Container and Markings</th>
<th>Type of Container</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Infectious</td>
<td>Yellow</td>
<td>Strong leak-proof plastic bag with biohazard symbol</td>
</tr>
<tr>
<td>2. Pathological</td>
<td>Yellow</td>
<td>Strong leak-proof plastic bag with biohazard symbol</td>
</tr>
<tr>
<td>3. Sharps</td>
<td>Yellow-(marked sharps)</td>
<td>Puncture proof</td>
</tr>
<tr>
<td>4. Chemical and Pharmaceutical</td>
<td>Brown</td>
<td>Plastic bag or container</td>
</tr>
</tbody>
</table>
### EIGHTH SCHEDULE—continued

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Color</th>
<th>Container</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Non-infectious/non-hazardous (Non-clinical)</td>
<td>Black</td>
<td>Plastic bag or container</td>
</tr>
<tr>
<td>6</td>
<td>Radioactive waste</td>
<td>Lead box, labelled with radioactive symbol</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Non-infectious/non-hazardous (Non-clinical)</td>
<td>Black</td>
<td>Plastic bag or container</td>
</tr>
</tbody>
</table>

- Infectious, Pathological and Sharp waste should also be marked with the International Biohazard symbol.
- Chemical waste should also be marked with the appropriate International chemical hazard symbol.
- Radioactive waste must be labelled with the appropriate warning symbol as in the Eighth Schedule Eight Part II.

**Note:**
1. Colour coding of waste categories with multiple treatment options as defined in Schedule Nine, shall be selected depending on treatment option chosen, which shall be as specified in the Ninth Schedule.
2. Waste collection bags for waste types needing incineration shall not be made of chlorinated plastics.

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### PART II – SYMBOLS

[Regulation 39.]

#### Class 5

(No. 5.1)

Division 5.1 Oxidizing substances

Symbol (frame over circle): black;
Background: yellow;

Figure '5.1' in bottom corner.

(No. 5.2)

Division 5.2 Organic peroxides

Symbol (frame over circle): black;
Background: yellow;

Figure '5.2' in bottom corner.

#### Class 6

(No. 6.1)

Division 6.1 Toxic substances

Symbol (skull and crossbones); black;
Background: white;

Figure '6' in bottom corner.

(No. 6.2)

Division 6.2 Infectious substances

The lower half of the label may bear the inscription "INFECTIONOUS SUBSTANCE" and in the case of damage or leakage immediately notify the Public Health Authority.

Symbol (three crescents superimposed on a circle) and inscriptions; black; Background: white; Figure '6' in bottom corner.
Class 5
(No. 5.1)
Division 5.1
Oxidizing substances
Symbol (flame over circle): black;
Background: yellow;
Figure ‘5.1’ in bottom corner.
(No. 5.2)
Division 5.2
Organic peroxides
Symbol (flame over circle): black;
Background: yellow;
Figure ‘5.2’ in bottom corner.
Class 6
(No. 6.1)
Division 6.1
Toxic substances
Symbol (skull and crossbones): black;
Background: white;
Figure ‘6’ in bottom corner.
(No. 6.2)
Division 6.2
Infectious substances
The lower half of the label may bear the inscription ‘INFECTIOUS SUBSTANCE’ and in the case of damage or leakage immediately notify the Public Health Authority:
Symbol (three crescents superimposed on a circle) and inscriptions: black; Background: white; Figure ‘6’ in bottom corner.
EIGHTH SCHEDULE—continued

Class 7 Radioactive material
(No. 7A)
Category I – White Symbol [trefoil]; black; Background: white; Text (mandatory): black in lower half of label;

‘RADIOACTIVE’
‘Contents ...........
‘Activity ...........
Figure ‘7’ in bottom corner.
(No. 7B)
Category II – Yellow Symbol [trefoil]; black; Background: upper half yellow with white border, lower half white; Text (mandatory): black in lower half of label;

‘RADIOACTIVE’
‘Contents ...........
‘Activity ...........
In a black outlined box: ‘Transport index’; Two red bars should follow the word ‘Radioactive’
Figure ‘7’ in bottom corner.
(No. 7C)
Category II – Yellow Symbol [trefoil]; black; Background: upper half yellow with white border lower half white; Text (mandatory): black in lower half of label;

‘RADIOACTIVE’
‘Contents, .........
‘Activity, ..........
In a black outlined box: ‘Transport index’ Three red bars should follow the word ‘Radioactive’
Figure ‘7’ in bottom corner.

Class 8 [Corrosive] substances
(No. 8)
Category I – White Symbol (liquids, spilling from two glass vessels and attacking a hand and a metal); black background; upper half white, lower half black with white border;
Figure ‘8’ in white in bottom corner.

Class 9 Miscellaneous dangerous substances and articles
(No. 9)
Category I – White Symbol (seven vertical stripes in upper half); black; Background: white, lower half black with white border;
Figure ‘9’ underlined in bottom corner.
NINTH SCHEDULE
[Regulation 30.]

TREATMENT METHODS OF BIOMEDICAL WASTES

<table>
<thead>
<tr>
<th>Waste category</th>
<th>Treatment method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contaminated animal carcasses</td>
<td>Incineration</td>
</tr>
<tr>
<td>Cultures and stock</td>
<td>Steam sterilization</td>
</tr>
<tr>
<td>Contaminated bedding/patient care waste</td>
<td>Steam sterilization or incineration</td>
</tr>
<tr>
<td>Contaminated small equipment</td>
<td>Steam sterilization or incineration</td>
</tr>
<tr>
<td>Contaminated large equipment</td>
<td>Formaldehyde decontamination</td>
</tr>
<tr>
<td>Waste biological</td>
<td>Steam sterilization or incineration</td>
</tr>
<tr>
<td>Surgery waste</td>
<td>Steam sterilization or incineration</td>
</tr>
<tr>
<td>Human blood</td>
<td>Steam sterilization or incineration</td>
</tr>
<tr>
<td>Autopsy waste</td>
<td>Incineration</td>
</tr>
<tr>
<td>Human blood products</td>
<td>Steam sterilization or incineration</td>
</tr>
<tr>
<td>Contaminated laboratory waste</td>
<td>Steam sterilization</td>
</tr>
<tr>
<td>Pathological waste</td>
<td>Steam sterilization or incineration/grinding</td>
</tr>
<tr>
<td>Dialysis unit waste</td>
<td>Steam sterilization</td>
</tr>
<tr>
<td>Contaminated and unused sharps</td>
<td>Steam sterilization and incineration/grinding</td>
</tr>
<tr>
<td>Pharmaceutical waste</td>
<td>See separate pharmaceutical waste guidelines</td>
</tr>
<tr>
<td>Anti-neoplastic drug waste</td>
<td>Incineration</td>
</tr>
<tr>
<td>Low level radioactive waste</td>
<td>Consult Radiation Protection Board</td>
</tr>
</tbody>
</table>

Note:
- Chemical treatment using at least 1% hypochlorite solution or any other equivalent chemical reagent. It must be ensured that the chemical treatment.
- Mutilation/shredding must be such so as to prevent unauthorised reuse.
- There will be no chemical pre-treatment before incineration.
- Chlorinated plastics shall not be incinerated.
- Deep burial shall be an option available only in towns with population less than five hundred thousand and in rural areas.

TENTH SCHEDULE
[Regulation 35.]

STANDARDS FOR WASTE AUTOCLAVING

The autoclave should be indicated for the purposes of disinfecting and treating biomedical waste.

I. 1. When operating a gravity flow autoclave, medical waste shall be subjected to—
   (i) a temperature of not less than 121°C and pressure of 15 pounds per square inch (psi) for an autoclave residence time of not less than 60 minutes; or
(ii) a temperature of not less than 135°C and a pressure of 31 psi for an autoclave residence time of not less than 45 minutes; or

(iii) a temperature of not less than 149°C and a pressure of 52 psi for an autoclave residence time of not less than 30 minutes.

II. When operating a vacuum autoclave, medical waste shall be subjected to a minimum of one pre-vacuum pulse to purge the autoclave of all air. The waste shall be subjected to the following—

(i) a temperature of not less 121°C and a pressure of 15 psi per autoclave residence time of not less than 45 minutes; or

(ii) a temperature of not less than 135°C and a pressure of 31 psi for an autoclave residence time of not less than 30 minutes.

IV. Recording of operational parameters

Each autoclave shall have graphic or computer recording devices, which will automatically and continuously monitor and record dates, time of the day, load identification number and operating parameters throughout the entire length of the autoclave cycle.

V. Validation test

Spore testing:

The autoclave should completely and consistently kill biological indicator at the maximum design capacity of each autoclave unit. Biological indicator for autoclave shall be *Bacillus stearothermophilus* spore using vials or spore strips, with at least 1 x 104 spores per millilitre. Under no circumstances will an autoclave have minimum operating parameters less than a residence time of 30 minutes, regardless of temperature and pressure, a temperature less than 121°C or pressure less than 15 psi.

VI. Routine Test

A chemical indicator strip/tape that changes colour when a certain temperature is reached can be used to verify that a specific temperature has been achieved. It may be necessary to use more than one strip over the waste package at different locations to ensure that the inner content of the package has been adequately autoclaved.

**STANDARDS FOR LIQUID WASTE**

The effluent generated from the hospital should conform to the following limits—

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Permissible limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>6.5–8.5</td>
</tr>
<tr>
<td>Suspended solids</td>
<td>≤100 mg/l</td>
</tr>
<tr>
<td>Oil and grease</td>
<td>Nil</td>
</tr>
<tr>
<td>BOD</td>
<td>≤30 mg/l</td>
</tr>
<tr>
<td>COD</td>
<td>≤50 mg/l</td>
</tr>
<tr>
<td>Bio-assay test</td>
<td>90% survival of fish after 96 hours in 100% effluent</td>
</tr>
</tbody>
</table>

These limits are applicable to those hospitals, which are either connected with sewers without terminal sewage treatment plant or not connected to sewage. For discharge into public sewers with terminal facilities, the general standards as notified under the Environmental Management Co-ordination (Water Quality) Regulations, 2005, shall be applicable.

**STANDARDS FOR MICROWAVING**

1. Microwave treatment shall not be used for cytotoxic, hazardous or radioactive wastes, contaminated animal carcasses, body parts and large metal items.
2. The microwave system shall comply with the efficacy test/routine tests and a performance guarantee may be provided by the supplier before operation of the unit.

3. The microwave should completely and consistently kill the bacteria and other pathogenic organisms that is ensured by approved biological indicator at the maximum design capacity of each microwave unit. Biological indicators for microwave shall be Bacillus subtilis spores using vials strips with at least 1 x 10^4 spores per millilitre.

STANDARDS FOR DEEP BURIAL

1. A pit trench should be dug about 2 metres deep. It should be filled with waste, and then covered with lime within 50 cm of the surface, before filling the rest of the pit with soil.

2. It must be ensured that animals do not have any access to burial sites. Covers of galvanized iron/wire meshes may be used.

3. On each occasion, when wastes are added to the pit, a layer of 10 cm of soil shall be added to cover the wastes.

4. Burial must be performed under close and dedicated supervision.

5. The deep burial site should be relatively impermeable, and no shallow well should be close to the site.

6. The pits should be distant from habitation, and sited so as to ensure that no contamination occurs of any surface water or groundwater. The area should not be prone to flooding or erosion.

7. The Authority will authorize the location of the deep burial site.

8. The institution shall maintain a record of all pits for deep burial.