

## HANDLING OF BIO-MEDICAL WASTE

### CATEGORIES OF BIO-MEDICAL WASTE

Chemicals treatment using at least 1% hypochlorite solution or any other equivalent chemical reagent. It must be ensured that chemical treatment ensures disinfections.

◆ Mutilation/shredding must be such so as to prevent unauthorised reuse.

■ There will be no chemical pretreatment before incineration. Chlorinated plastics shall not be incinerated.

Option	Treatment & Disposal	Waste Category
Cat. No. 1	Incineration ■	Human Anatomical Waste (human tissues, organs, body parts)
Cat. No. 2	Incineration ■	Animal Waste Animal tissues, organs, Body parts carcasses, bleeding parts, fluid, blood and experimental animals used in research, waste generated by veterinary hospitals / colleges, discharge from hospitals, animal houses)
Cat. No. 3	Local autoclaving/ micro waving/ incineration ■	Microbiology & Biotechnology waste (wastes from laboratory cultures, stocks or specimens of micro-organisms live or attenuated vaccines, human and animal cell culture used in research and infectious agents from research and industrial laboratories, wastes from production of biological, toxins, dishes and devices used for transfer of cultures)
Cat. No. 4	Disinfections (chemical treatment /autoclaving/micro waving and mutilation shredding ◆	Waste Sharps (needles, syringes, scalpels blades, glass etc. that may cause puncture and cuts. This includes both used & unused sharps)
Cat. No. 5	Incineration ■/ destruction & drugs disposal in secured landfills	Discarded Medicines and Cytotoxic drugs (wastes comprising of outdated, contaminated and discarded medicines)
Cat. No. 6	Incineration ■, autoclaving/micro waving	Solid Waste (Items contaminated with blood and body fluids including cotton, dressings, soiled plaster casts, line beddings, other material contaminated with blood)
Cat. No. 7	Disinfections by chemical treatment autoclaving/micro waving& mutilation shredding. ◆	Solid Waste (waste generated from disposable items other than the waste sharps such as tubing, catheters, intravenous sets etc.)
Cat. No. 8	Disinfections by chemical treatment and discharge into drain	Liquid Waste (waste generated from laboratory & washing, cleaning , house-keeping and disinfecting activities)
Cat. No. 9	Disposal in municipal landfill	Incineration Ash (ash from incineration of any bio-medical waste)
Cat. No. 10	Chemical treatment & discharge into drain for liquid & secured landfill for solids	Chemical Waste (chemicals used in production of biological, chemicals, used in disinfection, as insecticides, etc)
Option	Treatment & Disposal	Waste Category

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The most essential part of hospital waste management is the segregation of Bio-medical waste. The segregation of the waste should be performed within the premises of the hospital/nursing homes. The color coding, type of container to be used for different waste category and suggested treatment options are listed below.

### **COLOR CODING & TYPE OF CONTAINER FOR DISPOSAL OF BIO-MEDICAL WASTE**

<b>Colour Coding</b>	<b>Type of Containers</b>	<b>Waste Category</b>	<b>Treatment Options as per Schedule 1</b>
Yellow	Plastic bag	1,2,3,6	Incineration/deep burial
Red	Disinfected Container/ Plastic bag	3,6,7	Autoclaving/Micro waving/ Chemical Treatment
Blue/ White translucent	Plastic bag/puncture proof container	4,7	Autoclaving/Micro waving/ chemical treatment and destruction/shredding
Black	Plastic bag	5,9,10 (Solid)	Disposal in secured landfill

#### **Notes:**

1. Color coding of waste categories with multiple treatment options as defined in Schedule 1, shall be selected depending on treatment option chosen, which shall be as specified in Schedule 1.
2. Waste collection bags for waste types needing incineration shall not be made of chlorinated plastics.
3. Categories 8 and 10 (liquid) do not require containers/bags.
4. Category 3 if disinfected locally need not be put in Containers/bags.

Different labels for Bio-medical waste containers and bags shall be required for identification and safe handling of this waste. These labels for storage/transportation of Biomedical waste are as under,:

## LABEL FOR BIO-MEDICAL WASTE CONTAINERS/BAGS

**BIOHAZARD SYMBOL**

जैविक परिसंकट चिन्ह

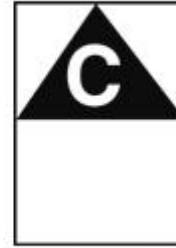


**BIOHAZARD**

जैविक परिसंकट

**CYTOTOXIC HAZARD SYMBOL**

कोषिकाविष परिसंकट चिन्ह



**CYTOTOXIC**

कोषिकाविष

## LABEL FOR TRANSPORT OF BIO-MEDICAL WASTE CONTAINERS/BAGS

	Day: _____ Month _____
	Year _____
Waste Category No. _____	Date of generation _____
Waste Class	
Waste Description	
Sender's Name & Address	Receiver's Name & Address
Phone No.: _____	Phone No.: _____
Telex No. _____	Telex No. : _____
Fax No. _____	Fax No. : _____
Contact Person _____	Contact Person: _____
In case of emergency please Contact:	
Name & Address:	
Phone No.	