

BIOMEDICAL WASTE MANAGEMENT

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- **BIO MEDICAL WASTE (BMW)** :- Means any waste, which is generated during the diagnosis, treatment or immunisation of human being and animal or in research activities or in the hospital and laboratory.
- **HOSPITAL WASTE**:- Refers to all waste, biological that is discarded and is not further use.

DISTRIBUTION OF HOSPITAL WASTE

1. **85 % non-hazardous waste**
2. **15% hazardous waste**

CLASSIFICATION OF HAZARDOUS WASTE

- **Anatomical waste**
- **Pathological waste**
- **Infectious waste**
- **Pharmaceutical waste**
- **Chemical waste**
- **Sharps waste**

BIOMEDICAL WASTE MANAGEMENT

- **Collection**
- **Transportation**
- **Treatment**
- **Disposal**

COLOUR CODED BAGS



YELLOW BAG



- Human Anatomical waste (tissues, Organs, Body parts)
- Animal Anatomical waste (Experimental animal, body parts, tissues)
- Solid waste (Items contaminated with blood and body fluids like dressing, plaster, cotton swabs etc)
- Expired or Discarded Medicines (Pharmaceutical waste)
- Chemical waste (used and discarded disinfectants)
- Microbiological and laboratory waste (Blood bags, cultures, used blood samples)

RED BAG



Plastic items (Recyclable)

- Waste generated from disposable items such as bottles, tubing, intravenous tubes and sets, catheters, urine bags, syringes, vaccutainers, needles cut and glove:



BLUE BAG (CARDBOARD BOXES)



- **Glassware:-** Broken or discarded and contaminated glass including medicine vials and ampoules except those contaminated with cytotoxic waste
- **Metallic body implants**

WHITE (PUNCTURE PROOF, LEAK PROOF)



Sharps waste:- Needles, syringes with fixed needles, needles tips cutter or burner, blades, scalpels and any other contaminated sharps objects that may cause puncture and cuts.

BLACK BAG

Non-infectious waste (85%) generated in hospital can be collected.



TRANSPORTATION

- **Within hospital:-** By designated wheeled containers and trolleys
- **Outside the hospital:-** By the authorized vehicle as specified by the Govt.
- Bags for transportation must be labelled (date, weight, ward number, department and duty in charge signature)

TREATMENT AND DISPOSAL OF BAGS

- **Yellow** :- Incineration or Deep burial
In absence of above facilities (autoclaving, micro-waving)
- **Red** :- Autoclaving or micro-waving / hydroclaving , Sterilization.
- **Blue** :- Disinfection (by soaking the washed glass waste after cleaning with detergent and Sodium Hypochlorite) or through autoclaving.
- **White** :- Autoclaving or dry heat Sterilization. And send final disposal to iron foundries or sanitary landfill.
- **Black** :- Without any treatment can be send to municipal garbage or land filling

PERSONNEL PROTECTIVE EQUIPMENTS

- **Gloves**
- **Masks and Goggles**
- **Boots**

VACCINATION

- **HEPATITIS B VACCINE**
- **TETANUS TOXOID**

ACCIDENTAL EXPOSURE

- **CONTACT CMO**

- **Use of Hand sanitizers/ Tap water with soap/ Disinfectants**

SCHEDULE-III

**LABEL FOR BIO-MEDICAL WASTE
CONTAINERS/BAGS**

BIOHAZARD SYMBOL



BIOHAZARD

CYTOTOXIC HAZARD SYMBOL



CYTOTOXIC

HANDLE WITH CARE

Note : Label shall be non-washable and prominently visible.

Thank you

