

BIO-MEDICAL WASTE MANAGEMENT

INTRODUCTION

Biomedical wastes are defined as waste that is generated during the diagnosis, treatment or immunization of human beings or animals, or in research activities pertaining thereto, or in the production of biological, and including 10 categories mentioned in Schedule I.

JIPMER is a major tertiary care hospital that caters to a large group of patients, every day as both Outpatients and In-Patients. In addition, it has a large Student (Undergraduates and Post-Graduates) population and Staff numbering around 5000. There is a sprawling 192 acres campus with various buildings comprising Hospital Blocks, Academic Centre, Administrative Centre, Nursing College Hostels, Guest Houses, Kendriya Vidyalaya School, quarters for all the staff members, Auditorium, community hall which hosts marriages & meetings etc. In addition there are construction workers colonies, day care and night shelters for patient, accommodation units for temporary contractual outsourced staff and Security, (Facilitation Management and maintenance) and various other staff such as those working in canteens. Hence there is a heterogeneous generation of Bio-Medical Wastes which need proper segregation, transportation and disposal.

THE COMMITTEE MEMBERS

1. The Medical Superintendent
2. Addl. Medical Superintendent
3. The HOD of Biochemistry
4. The HOD of P&SM
5. The officer in charge of Central Store
6. Dr. S Manwar Ali, Associate Prof. of Surgery
7. Dr. Friji M.T., Asso. Prof. of Plastic Surgery
8. The Nursing Superintendent
9. The Accounts Officer
10. The Administrative Officer
11. The Sanitary Superintendent
12. The Senior Sanitary Inspector
13. The Officer in charge BMW

CATEGORIES OF BIO MEDICAL WASTES

<u>Option</u>	<u>Waste category</u>	<u>Treatment and disposal</u>
Category 1	Human Anatomical waste	Incineration/deep burial
Category 2	Animal waste	Incineration/deep burial
Category 3	Microbiology and Biotechnology waste	Local autoclaving or microwaving
Category 4	Waste sharps	Chemical disinfection/autoclaving and mutilation and shredding
Category 5	Discarded medicines and cytotoxic drugs	Incineration/disposal in secured landfills.
Category 6	Solid waste (contaminated with body fluids)	Incineration/autoclaving
Category 7	Solid waste (disposable items)	Chemical disinfection/micro waving
Category 8	Liquid waste	Chemical disinfection and discharge into drains
Category 9	Incineration ash	Disposal in municipal landfills.
Category 10	Chemical waste	Chemical treatment discharge into drains/secured land fill

Schedule II of the BMW Management Rules mention the colour coding for disposal of the wastes:-

1. Yellow - For waste category 1,2,3 and 6
2. Blue - For waste category 4 and 7
3. Black - For waste category 5,9 and 10(Solid)

COLOUR CODING SYSTEM FOR SEGREGATION OF BIOMEDICAL WASTE

YELLOW BAG

- ▶ Human tissue, Placenta, Organs, Body parts from OT, Amputated limb.
- ▶ Soiled cotton, pad, dressings.
- ▶ All used mask, glove, plastic apron, head cap.
- ▶ Blood stained plaster.
- ▶ Material contaminated with blood.

RED BAG

- ▶ All infected plastics & rubber items.
- ▶ IV sets, IV bottle, Syringes.
- ▶ Blood Bag, Blood set.
- ▶ All Tubings- ET Tube, Urinary Catheter, Rye's Tube, Suction Catheter.

BLUE BAG

- ▶ All Sharp items.
- ▶ Hypodermic Needle, scalpel, blade, glass-cause Puncture wound.
- ▶ Destroy needle tip using needle destroyer.
- ▶ Cut the Syringe Hub.
- ▶ Put the needle in PPB and Syringe in Blue Bag.
- ▶ Broken Ampules, Vials, Glass bottle.
- ▶ Put all sharps into Puncture Proof Box.

BLACK BAG

- ▶ All non-infectious waste.
- ▶ Kitchen waste.
- ▶ All covers, wrapper, paper, empty boxes and office waste.
- ▶ Cytotoxic Drug, Outdated Medicine.

NOTE

- ▶ -Follow proper color coding system as per norms.
- ▶ -Do proper segregation of Biomedical Wastes.
- ▶ -Use needle destroyer & check its working condition.
- ▶ -Destroy needle tip & cut hub then put in PPB.
- ▶ -Collect IV set, IV Bottle & Syringe in separate bin.
- ▶ -Educate the patient where to put the waste like cotton, food waste, etc.
- ▶ -Ask G4S to tie the bags & label the bag with stickers.
- ▶ -Weigh the Bags.
- ▶ -Keep in a separate place far away from patient.
- ▶ -Yellow & Blue Bag should not go to dumping yard.
- ▶ -For any Query Contact BMWM Office-6507.

JIPMER BMW SLOGAN

- ▶ YOUR HEALTH AND
ENVIROMENT IS OUR TOP
PRIORITY