

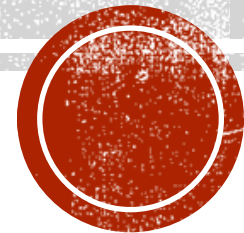
BIOMEDICAL WASTE MANAGEMENT :

**STATUS REVIEW & THE LABORATORY WASTE
PERSPECTIVE**

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Nodal Officer, Bio medical waste mgmt

AIIMS



तीन बैग, एक डिब्बा और एक गत्ता

सामान्य कचरा

- कार्डबोर्ड
- रैपर
- भोजन
- कागज़



इन्फेक्टेड

- मानवीय अंग
- कॉटन के स्वाबस
- खारिज, साइटोटोक्सिक दवा
- खून की थैली



कैथेटर

- ट्यूबिंग्स
- सिरिंजों सुइयों के बिना
- मूत्र बैग
- आईवी सेट



नोकदार

- सुइयों
- फिक्स्ड सुइयों के साथ सिरिंज
- स्केलपेल ब्लेड
- तेजधार



कांच

- कांच के बने पदार्थ
- धातु शरीर प्रत्यारोपण



PROCUREMENT:

Puncture proof & hub cutters containers already in RC

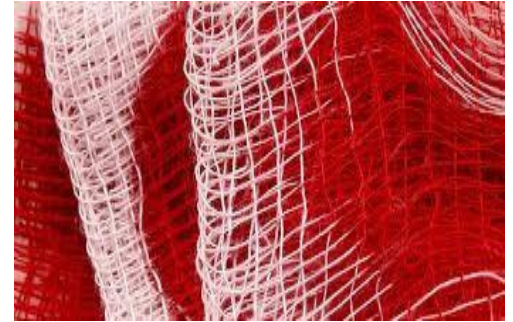


पीले में पट्टी ...



SCHEDULE I : YELLOW CATEGORY: SOILED WASTE

- (a) **Human Anatomical Waste:** Human tissues, organs, body parts and fetus
- (b) **Animal Anatomical Waste :**
- (c) **Soiled Waste:** Items contaminated with blood, body fluids like dressings, plaster casts, cotton swabs and bags containing residual or discarded blood



Incineration or Plasma Pyrolysis or deep burial



(d) Expired or Discarded Medicines including antibiotics



DRUGS

(d) CYTOTOXIC DRUGS: including all items contaminated with cytotoxic drugs along with glass or plastic ampoules, vials etc.



Common bio-medical waste treatment facility:
Incineration



लाल में PLASTIC और RUBBER !



PLASTIC RECYCLABLE WASTE

(a) Wastes generated from tubing, bottles, intravenous tubes and sets, catheters, urine bags, syringes (without needles and *fixed needle syringes*) and gloves



catheters, urine bags, syringes (without needles and *fixed needle syringes*) and gloves



Autoclaving or micro-waving/hydroclaving followed by shredding or mutilation

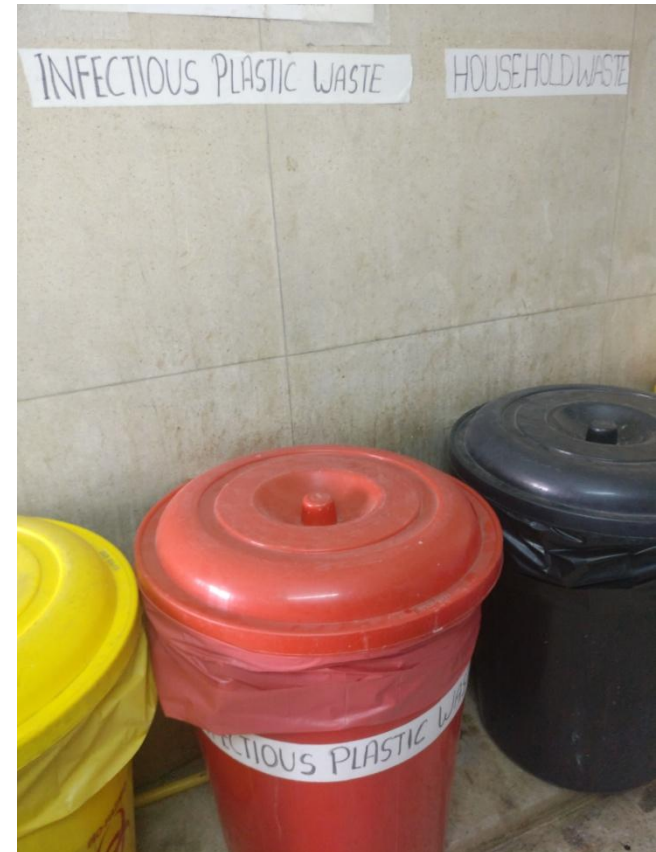


INFECTIOUS PLASTIC WASTE

Ward/ individual lab

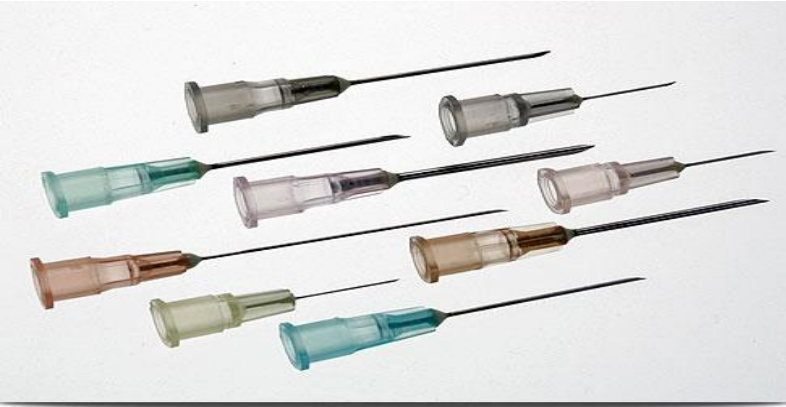


Sluice room/ common area



सफ़ेद में सूई....

नोकदार चीज़े जैसे सुइयां, स्कालपेल, ब्लेड या अन्य कोई नोकदार वस्तु



BLUE FOR BOTTLES....



कार्ड बोर्ड में कांच



GLASS WARE: CARDBOARD BOXES & BOTTLES

- [Video of glass bottles intramural transport](#)



PROCUREMENT: RATE CONTRACT

- Small bags
- Small bins
- Puncture proof container and hub cutter
- Large bins



FRESH TENDER FLOATED : CONSUMABLES FOR BMW MGMT.



SLUICE ROOM/ CENTRAL COLLECTION POINTS: THE BUCKET LIST?



CENTRAL COLLECTION FACILITY



LABORATORY WASTE: A SPECIAL FOCUS



Microbiology, Biotechnology and other clinical laboratory waste: Laboratory cultures, stocks or specimens of microorganisms



DESIGNATED YELLOW, RED & BLUE TROLLEYS



PLASTIC & RUBBER WASTE:



BOTTLE WASTE



ONSITE TREATMENT: LAB WASTE



LAB WASTE: MICROWAVE !!

- A chemical disinfectant approved by NACO or WHO?
- Blood bags disinfection
- **Microwave: Location and process flow.:**
- **Centralised or decentralised**



MICROWAVE: ONSITE TREATMENT



- 4 microwaves: 60 Ltrs
- 2 for yellow wastes, 1 for red and 1 for bottle(blue & white trolley)
- 1 hr cycle, 8hrs shift to be run by outsourced staff
- **METALS & GENERAL WASTES SHOULD NOT BE INCLUDED**



LIQUID EFFLUENT WASTE: STP

Sludge cakes



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BIO-MEDICAL WASTE MANAGEMENT

Last Updated On : 20 Sep 2017

INTRODUCTION

As per the act passed by the Ministry of Environment and Forests in 1986 & notified the Bio Medical Waste (Management and Handling) Rules in July 1998, it is the duty of every “occupier”, (in the case of AIIMS, the Director, AIIMS) i.e. a person who has the control over the institution or its premises, to take all steps to ensure that waste generated is handled without any adverse effect to human health and environment.

The biomedical waste management policy followed at AIIMS is as per the Biomedical Waste Management Rules 2016, notified by the Ministry of Environment, Forest and Climate Change, Government of India as per the gazette notification dated 28th March 2016. Prior to this notification, AIIMS had been following the Bio-medical Waste (Management & Handling) Rules 1998 notified by the same ministry. At present, the biomedical waste management at AIIMS has been outsourced to a common biomedical waste management facility, M/S Biotic Waste Solutions Pvt. Ltd..

DEFINITIONS

- **Hospital waste:** refers to all waste, biological or non- biological that is discarded and not intended for further use.

SEGREGATION: तेरे BIN या मेरा BIN ?



GROSS ERROR IN SEGREGATION



SYSTEMS APPROACH FOR SUSTAINABILITY



बायो मेडिकल वेस्ट / BIO MEDICAL WASTE



- मानवीय अंग एवं जीव वेस्ट
(मानवीय टिशू, शारीरिक अंग वेस्ट)
- रक्त से सनी वस्तु
(पट्टी, प्लास्टर, ब्लड बैग)
- अवधि समाप्त दवाइयाँ
(एंटीबायोटिक्स दवाइयाँ)
- कैमिकल वेस्ट
(जैव-विज्ञान में इस्तेमाल कैमिकल)
- रक्त से दूषित लीनेन, बिस्तर
- लेबोरेटोरी वेस्ट
(ब्लड बैग, कल्चर, माईक्रोऑरगेनिज़्म स्पेसिमेन)

पीला थैला / YELLOW BAG



- Human & Animal Anatomical Waste
(Tissues, Organs, Body Parts, Fetus etc.)
- Soiled Waste
(Dressings, Plaster Casts, Cotton Swabs, Residual/Discarded Blood Bags)
- Expired or Discarded Medicine
(Antibiotics etc.)
- Chemical Waste
(Discarded Reagents, Disinfectants)
- Discarded Linen, Mattresses & Beddings
- Pre-Treated Microbiology, Bio-technology & Clinical Lab Waste
(Blood Bags, Cultures, Residual Toxins, Dishes & Devices, Microorganism specimen)

- साइटोटोक्सिक वेस्ट
(साइटोटोक्सिक दवाइयाँ से दूषित वायल, एम्प्यूल, प्लास्टिक इत्यादि)

- Cytotoxic Waste
(All items Contaminated with Cytotoxic drugs along with glass or plastic ampoules, vials etc.)

- रीसायकल योग्य इंफैक्टेड वेस्ट
(ट्यूब, बोटल, इंट्रावीनस ट्यूब और सेट, कैथेटर, यूरो बैग, बिना सूई की सिरींज, वैक्यूटेनर एवं दस्ताने)

लाल थैला / RED BAG



- Contaminated Waste (Recyclable)
(Tubings, Plastic Bottles, Intravenous tubes & sets, Catheters, Urine Bags, Syringes without needle, Vacutainers and Gloves)

- नुकीला एवं धातु वाला वेस्ट
(सूई, सूई लगी सिरींज, स्कालपेल्स, ब्लेड एवं अन्य नोकदार वस्तु)

सफेद डिब्बा / WHITE CONTAINER

(पंचर, टैम्पर और लीक प्रूफ)/(PUNCTURE, TAMPER AND LEAK PROOF)



- Waste Sharps Including Metals
(Needles, Syringes with fixed Needles, Needles from needle tip cutter or Burner, Scalpels, Blades, Contaminated Sharp objects)

- कांच का वेस्ट
(टूटा हुआ कांच, दवाई की शीशियां एवं एम्प्यूल)
- धातु वाले इम्प्लांट

गत्ते का डिब्बा / CARDBOARD BOX

(नीले चिन्ह के साथ)/(WITH BLUE MARKING)



- Glassware
(Contaminated Broken/Discarded Glass, Vials, Ampoules)
- Metallic Body Implants



कौन बनेगा करोड़ पति- 1?



कौन बनेगा करोड़ पति- 2?



कौन बनेगा करोड़ पति- 3?



कौन बनेगा करोड़ पति- 4?



काले में जनरल कूड़ा

- कागज़, बचा हुआ भोजन, पैकिंग का गत्ता



BIO MEDICAL WASTE : सारांश

रंगों की सही पहचान:-

1. पीले में खून से सनी पट्टी, बेकार दवाइयां इत्यादि
2. लाल में लचीला प्लास्टिक
3. सफ़ेद में सुई, स्काल्पल इत्यादि
4. गत्ते में शीशों की बोतल व टूटे अम्पौले
5. सारे LAB WASTE पहलेले ट्रीट होंगे
6. काले में सामान्य कूड़ा



A hand is shown from the right side, palm up, holding a glowing, translucent white orb. The orb is centered in the upper half of the frame and contains the text "THANK YOU" in a bold, black, sans-serif font. The background is a solid, dark grey color. The lighting is soft, highlighting the contours of the hand and the glow of the orb.

**THANK
YOU**