

DR. BABA SAHEB AMBEDKAR HOSPITAL (GOVT. OF NCT OF DELHI) SECTOR VI, ROHINI, DELHI—85

F. No.16(20)/2019/Misc correspondence/BSAH/Part File 1 977 - 87 Dated: 16 11 242

CIRCULAR

It has been brought to notice that there is mixing of General Waste with Biomedical Waste (Gloves, Cotton, Bandage etc) in certain areas of the hospital. This is against the rules of against the defaulters.

It is hereby directed that all the HODs/Unit Heads/Incharges/Sister Incharges ensure strict enforcement of Biomedical Waste Management Rules 2016 (as amended).

Further all the departments are directed to submit the compliance to amended BMW Rules 2016 within 7 days. This matter may be treated on priority basis.

A copy of the relevant BMW Rules, 2016 (as amended) is enclosed (Annexure Pg 1-4) for the needful.

Dr Ashok Jaiswal
Add. Medical Superintendent (I)

F. No.16(20)/2019/Misc correspondence/BSAH/Part File 1

le 1 977 - 85 Dated: KI 22

Copy to:-

- 1. PS to MD for information
- 2. AMS(A)/ AMS(I)/AMS(OPD)/AMS(M)/AMS(E)/DMS(A)
- MS(A&E)/MS(Surg & Allied)
- 4. All HODs
- 5. Nodal Officer BMW, Nodal Officer SWM
- 6. DNS/ ANS & All Senior Nursing Officers
- 7. Suptd. Hospital Managers (Caretaking & Indoor)
- 8. Notice Board Display
- 9. Asstt. programmer to upload on hospital website & Guard File

Dr Ashok Jaiswal Add. Medical Superintendent(I)

- (2) The selection of site for setting up of such facility shall be made in consultation with the prescribed authority, other stakeholders and in accordance with guidelines published by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board.
 18. Liability of the
- 18. Liability of the occupier, operator of a facility.- (1) The occupier or an operator of a common bio-medical waste treatment facility shall be liable for all the damages caused to the environment or the public due to improper handling of bio- medical wastes.
- (2) The occupier or operator of common bio-medical waste treatment facility shall be liable for action under section 5 and section 15 of the Act, in case of any violation.

SCHEDULE I [See rules 3 (e), 4(b), 7(1), 7(2), 7(5), 7 (6) and 8(2)] Part-1

Biomedical wastes categories and their segregation, collection, treatment, processing and disposal options

Category	Type of Waste		· .
		Type of Bag or	Treatment and Di
		Container to be	Treatment and Disposal options
(1)		used	
Yellow	(2)	(3)	
2011011	(a) Human Anatomical	Yellow coloured	(4)
Lagrant	yyaste:	non-chlorinated	Incineration or Plasma Pyrolysis or
	Human tissues, organs,	plastic bags	deep burial
44.7	body parts and fetus	histic bags	
	below the viability		
H (4)	period (as per the		
	Medical Termination of	T	• • •
	Pregnancy Act 1071		
9	Pregnancy Act 1971,		·
	amended from time to	4 II I	
	time).		- in the second
	(b)Animal Anatomical		
	Waste:	1	and the second of the second
•	Experimental animal	.] -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	carcasses, body parts,		
	organs, tissues,		
	including the waste		14000
114 114	generated from		
	animals used in	-	
	experiments or testing	1	
	in votes or testing	3	
	in veterinary hospital	S	5,40
	or colleges or anima	1	
	houses.		
1.00	* *		
A Flowigh	(c) Soiled Waste:		
			Incineration or Plasma Pyrolysis
		d D	deep burial
	with blood, body fluid	is	
	like dressings, plast	er	In absence of above facilitie
	casts, cotton swabs ar	nd	autoclaving or micro-waving

• 1	11 11		hydroclaving followed by the
	bags containing residual	<u>.</u>	hydroclaving followed by shredding or combination
	or discarded blood and		sterilization and shredding. Treated
	blood components.		waste to be sent for energy recovery.
			musto to observe to one gy recovery.
			'Euriged 'autotoxia deure
	(d) Expired or	Yellow coloured	Expired 'cytotoxic drugs and items
	Discarded Medicines:	non-chlorinated	contaminated with cytotoxic drugs to be
	Pharmaceutical waste	plastic bags or	returned back to the manufacturer or
	like antibiotics,	containers	supplier for incineration at temperature
	cytotoxic drugs		>1200 °C or to common bio-medical
	including all items	-	waste treatment facility or hazardous
	contaminated with		waste treatment, storage and disposal
	cytotoxic drugs along	4 ,	facility for incineration at >1200°C Or
	with glass or plastic		Encapsulation or Plasma Pyrolysis at
	ampoules, vials etc.	·	>1200°C.
	-		
			All other discarded medicines shall be
			either sent back to manufacturer or
			disposed by incineration.
	(e) Chemical Waste:	Yellow coloured	Disposed of hy in in-white an Bloom
	Chemicals used in	containers or	Disposed of by incineration or Plasma Pyrolysis or Encapsulation in
	production of biological	non-chlorinated	hazardous waste treatment, storage and
	and used or discarded	plastic bags	disposal facility.
	disinfectants.	,	. cisposar raemiji
	(f) Chemical Liquid	Separate	After resource recovery, the chemical
	Waste:	collection	liquid waste shall be pre-treated before
	Liquid waste generated	system leading	mixing with other wastewater. The
	due to use of chemicals	to effluent	combined discharge shall conform to
	in production of	treatment system	the discharge norms given in Schedule-
, •,	biological and used or discarded disinfectants,		1111
	Silver X-ray film		
•	developing liquid,		
	discarded Formalin,		
	infected secretions,		
	aspirated body	*	
	fluids, liquid from	•	•
	laboratories and floor		
	washings, cleaning,		
1	house-keeping and	· · · (9)	*
	disinfecting activities	٠,	
	etc.		,
	(g) Discarded linen,	Non-chlorinated	Non- chlorinated chemical disinfection
	mattresses, beddings	yellow plastic	followed by incineration or Plazma
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	contaminated with	bags or suitable	Pyrolysis or for energy recovery.
1:	blood or body fluid.	packing material	In absence of above facilities, shredding
		,	or mutilation or combination of
1.			sterilization and "shredding. Treated
			SICILIZATION WITE
			waste to be sent for energy recovery of
			waste to be sent for energy recovery or incineration or Plazma Pyrolysis.

Scanned by CamScanner

Pg	_	3
Pg	_	3

			1/1
1	(h) Microbiology, Biotechnology	Mary State of the	\mathcal{J}
. , "	Blotechnology, other and	Walnut Salata	The first term of the state of
		Autoclave ante	And the state of the state of the Section Sect
*	lahowa clini	P'MBUC Noise	Pre-treat to sterilize with non-
	Blood to Waster		chlorinated chemicals on-site as per
	Cult. bags. Labor.		National AIDS Control Organisation or
	Blood bags, Laboratory specimens, stocks or		World Health Organisation guidelines
	specimens or		thereafter for Incineration.
	organisms, of micro-	•	The memory and the second
•	attenuated live or		
•	human and vaccines,		
	human and animal cell		
	cultures used in	•	
	rescarch		
	laboratories, production		
	of hieles, production		
	la residual		
	l lighter		
	devices used e		• •
	cultures.		
-			
Red	Contaminated Waste		
•	(Recyclable) Waste	Red coloured	Autoclaving or micro-waving/
	(a) Went	non-chlorinated	hydroclaving followed by shredding or
	(a) Wastes generated	plastic bags or	mutilation or combination of
	from disposable items	containers	sterilization and shredding. Treated
	such as tubing, bottles.		
	intravenous tubes and	,	waste to be sent to registered or
	sets, catheters, urine		authorized recyclers or for energy
	bags, syringes (without		recovery or plastics to diesel or fuel oil
	needles and fixed needle		or for road making, whichever is
		,	possible.
	syringes) and		
	vaccutainers with their		Plastic waste should not be sent to
	needles cut) and gloves.		landfill sites.
White	Waste sharps	Puncture proof,	Autoclaving or Dry Heat Sterilization
(Translucent)	-	Leak proof,	followed by shredding or mutilation or
(Timbiaeem)	Needles, syringes with		encapsulation in metal container or
	fixed needles, needles		cement concrete; combination of
		l .	shredding cum autoclaving; and sent for
ĺ	from needle tip cutter or		final disposal to iron foundries (having
	burner, scalpels, blades,		
34	or any other		consent to operate from the State
	contaminated sharp		Pollution Control Boards or Pollution
1	object that may cause		Control Committees) or sanitary
	puncture and cuts. This		landfill or designated concrete waste
ı		1	sharp pit.
			I Sharp più
	includes both used,		Sharp pit.
	includes both used, discarded and		Sharp pit.
	includes both used,		Sharp pit.
	includes both used, discarded and contaminated metal		
Blue	includes both used, discarded and contaminated metal sharps		Disinfection (by soaking the washe
Blue	includes both used, discarded and contaminated metal sharps (a) Glassware:	Cardboard boxes	Disinfection (by soaking the washe glass waste after cleaning wit
Blue	includes both used, discarded and contaminated metal sharps (a) Glassware: Broken or discarded and	Cardboard boxes	Disinfection (by soaking the washe glass waste after cleaning wit
Blue	includes both used, discarded and contaminated metal sharps (a) Glassware: Broken or discarded and contaminated glass	Cardboard boxes with blue colored marking	Disinfection (by soaking the washe glass waste after cleaning wit detergent and Sodium Hypochloric treatment) or through autoclaving of
Blue	includes both used, discarded and contaminated metal sharps (a) Glassware: Broken or discarded and contaminated glass including medicine vials	Cardboard boxes with blue colored marking	Disinfection (by soaking the washe glass waste after cleaning wit detergent and Sodium Hypochloric treatment) or through autoclaving of
Blue	includes both used, discarded and contaminated metal sharps (a) Glassware: Broken or discarded and contaminated glass including medicine vials	Cardboard boxes with blue colored marking	Disinfection (by soaking the washe glass waste after cleaning wit detergent and Sodium Hypochlorit treatment) or through autoclaving a microwaving or hydroclaving and the
Blue	includes both used, discarded and contaminated metal sharps (a) Glassware: Broken or discarded and contaminated glass including medicine vials and ampoules except	Cardboard boxes with blue colored marking	Disinfection (by soaking the washe glass waste after cleaning wit detergent and Sodium Hypochloric treatment) or through autoclaving of
Blue	includes both used, discarded and contaminated metal sharps (a) Glassware: Broken or discarded and contaminated glass including medicine vials	Cardboard boxes with blue colored marking	Disinfection (by soaking the washe glass waste after cleaning wit detergent and Sodium Hypochlorit treatment) or through autoclaving a microwaving or hydroclaving and the

	(b)	Tourist first fire	Cardboard boxes with blue colored marking	I
			• ,	

Disposal by deep burial is permitted only in rural or remote areas where there is no access to common bio-medical waste treatment facility. This will be carried out with prior approval from the prescribed authority and as per the Standards specified in Schedule-III. The deep burial facility shall be located as per the provisions and guidelines issued by Central Pollution Control Board from time to time.

Part -2

- (1) All plastic bags shall be as per BIS standards as and when published, till then the prevailing Plastic Waste Management Rules shall be applicable.
- (2) Chemical treatment using at least 10% Sodium Hypochlorite having 30% residual chlorine for twenty minutesor any other equivalent chemical reagent that should demonstrate Log₁₀4 reduction efficiency for microorganisms as given in Schedule-III.
- (3) Mutilation or shredding must be to an extent to prevent unauthorized reuse.
- (4) There will be no chemical pretreatment before incineration, except for microbiological, lab and highly infectious waste.
- (5) Incineration ash (ash from incineration of any bio-medical waste) shall be disposed through hazardous waste treatment, storage and disposal facility, if toxic or hazardous constituents are present beyond the prescribed limits as given in the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008 or as revised from time to time.
- (6) Dead Fetus below the viability period (as per the Medical Termination of Pregnancy Act 1971, amended from time to time) can be considered as human anatomical waste. Such waste should be handed over to the operator of common bio-medical waste treatment and disposal facility in yellow bag with a copy of the official Medical Termination of Pregnancy certificate from the Obstetrician or the Medical Superintendent of hospital or healthcare establishment.
- (7) Cytotoxic drug vials shall not be handed over to unauthorised person under any circumstances. These shall be sent back to the manufactures for necessary disposal at a single point. As a second option, these may be sent for incineration at common bio-medical waste treatment and disposal facility or TSDFs or plasma pyrolys is at temperature > 1200 °C.
- Residual or discarded chemical wastes, used or discarded disinfectants and chemical sludge can be disposed at hazardous waste treatment, storage and disposal facility. In such case, the waste should bio-medical waste treatment, storage and disposal facility through operator of common treatment and disposal facility only.

Scanned by CamScanner