

**Annexure-4 to BMW Amended
Rule 2018**

**Form - IV
(See rule 13)
ANNUAL REPORT**

1. Particulars of the Occupier

Particulars		
(i)	Name of the authorized person (occupier or operator of facility)	AVM S SHANKAR Commandant Command Hospital Air Force
(ii)	Name of HCF or CBMWTF	Command Hospital Air Force Bangalore-560007
(iii)	Address for Correspondence	Command Hospital, AF, Agram Post, Bangalore – 560007 Tele : 25369030/201, Fax No – 080/25579151
(iv)	Address of Facility	Command Hospital, AF, Agram Post, Bangalore – 560007
(v)	Tel. No, Fax. No	Tele : 25369030/201 Fax No – 080/25579151
(vi)	E-mail ID	Chafb.1959.gov.in
(vii)	URL of Website	Nil
(viii)	GPS coordinates of HCF or CBMWTF	-
(ix)	Ownership of HCF or CBMWTF	Govt of India (Ministry Of Defence)
(x)	Status of Authorization under the Bio-Medical Waste (Management and Handling) Rules	Authorization No:3548/DGAFMS/DG-3A dated 28 Oct 2019 valid up to 28 Oct 2024
(xi)	Status of Consents under Water Act and Air Act	Valid till 30 Jun 2026

2. Type of Health Care Facility

Particulars		
(i)	Bedded Hospital	No. of Beds: 800 (laid 722)
(ii)	Non-bedded hospital (Clinic or Blood Bank or Clinical Laboratory or Research Institute or Veterinary Hospital or any other)	N/A
(iii)	License number and its date of expiry	No:3548/DGAFMS/DG-3A dated 28 Oct 2019 valid up to 28 Oct 2024

3. Details of CBMWTF

Particulars		
(i)	(i) Number healthcare facilities covered by CBMWTF	84
(ii)	(ii) No of beds covered by CBMWTF	8000
(iii)	(iii) Installed treatment and disposal capacity of CBMWTF:	10 tons/day
(iv)	(iv) Quantity of biomedical waste treated or disposed by CBMWTF	02 tons/day

**Form - IV
(See rule 13)
ANNUAL REPORT (CONTD)**

4. Quantity of waste generated or disposed in Kg per Annum

	Particulars	Qty of waste (in Kg)
(i)	Yellow Category :	12599 Kg
(ii)	Red Category :	10210.5 Kg
(iii)	Blue Category :	2865 Kg
(iv)	White:	2937 Kg
(v)	General Solid waste:	N/A

5. Details of the Storage, treatment, transportation, processing and Disposal Facility

(i)	Details of the on-site storage Facility	Size : 15X20 feet closed room
		Capacity: It Can Store BMW upto 48 Hrs of daily average BMW.
		Provision of on-site storage : (cold storage or any other provision): NIL

(ii)	Disposal facilities	Type of treatment equipment	No of units	Capacity Kg/ day	Quantity Treated or disposed in kg per annum
		Incinerators	Nil	Nil	Nil
		Plasma Pyrolysis	Nil	Nil	Nil
		Autoclaves	01	20Kg/day	5312 kg
		Microwave	Nil	Nil	Nil
		Hydroclave	Nil	Nil	Nil
		Shredder	Nil	Nil	Nil
		Needle tip cutter or destroyer	87	6.35 Kg	2140 Kg
		Sharps encapsulation or concrete pit	Nil	Nil	Nil
		Deep burial pits	Nil	Nil	Nil
		Chemical disinfection	Nil	Nil	Nil
		Any other treatment equipment:	Nil	Nil	Nil

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(iii)	Quantity of recyclable wastes sold to authorized recyclers after treatment in kg per annum.	Nil		
(iv)	No of vehicles used for collection and transportation of biomedical waste	TWO		
(v)	Details of incineration ash and ETP sludge generated and disposed during the treatment of wastes in Kg per annum		Quantity generated	Where disposed
		Incineration	Nil	Nil
		Ash	Nil	Nil
		ETP Sludge	7500 kg	Through BBMP
(vi)	Name of the Common Bio-Medical Waste Treatment Facility Operator through which wastes are disposed of	Anu Autoclave & Incin Service. Sy No.145/2, Gullahali Village, Sulibele Hobli, Hoskote Taluk, Bangalore Rural Dist Pin - 562122		
(vii)	List of member HCF not handed Over bio-medical waste.	NIL		

6 Do you have bio-medical waste management committee? If yes, attach Minutes of the meetings held during the reporting period: **Attached**

7 Details trainings conducted on BMW

(i)	Number of trainings conducted on BMW Management	14
(ii)	Number of personnel trained	254
(iii)	Number of personnel trained at the time of induction	254
(iv)	Number of personnel not undergone any training so far	Nil
(v)	Whether standard manual for Training is available?	Yes
(vi)	Any other information	Nil

8 Details of the accident occurred during the year

(i)	Number of Accidents occurred	Nil
(ii)	Number of the persons affected	Nil
(iii)	Remedial Action taken (Please attach details if any)	Nil
(iv)	Any Fatality occurred, details.	Nil

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9. Standards of Air monitoring

Are you meeting the standards of air Pollution from the incinerator?

How many times in last year could not meet the standards? **N/A**

10 Liquid waste


(i)	Generated	1,80,0000 Ltr/Annum
(ii)	Treatment methods in place.	ETP
(iii)	How many times you have not met the standards in a year?	Nil

11 Is the disinfection method or sterilization meeting the log 4 standards? How many times you have not met the standards in a year? **Nil**

12. Any other relevant information: (Air Pollution Control Devices attached with the Incinerator)
Nil

Certified that the above report is for the period from 01 Jan 2022 to 31 Dec 2022

Place: CHAFB
Date: Jan 23


**(S. Shankar)
Air Vice Marshal
Commandant
CHAF Bangalore**
Name and Signature of the
Head of the Institution

12 JAN 2023

**PROFORMA FOR INSPECTION OF HEALTH CARE EST
FOR BMW DISPOSAL**

1. **Particulars**

(i) Name of the Institution : **Command Hospital Air Force, Bangalore**

2. **Activities**

(i) Amount of Waste generated (Category wise)

Category	Type of Waste	Average Quantity Generated/ Collected kg/day	Method of Treatment and Disposal
Yellow	(a) Human Anatomical Waste:	35.51 Kg	-
	(b) Animal Anatomical Waste :		-
	(c) Soiled Waste:		-
	(d) Expired or Discarded Medicines:		-
	(e) Chemical Solid Waste:		-
	(f) Chemical Liquid Waste :		-
	(g) Discarded linen, mattresses, beddings contaminated with blood or body fluid.		-
	(h) Microbiology, Biotechnology and other		-
Red	Contaminated Waste (Recyclable)	27.97 kg	-
White (Translucent)	Waste sharps including Metals:	8.04 kg	-
Blue	Glassware/ Metallic Body Implants	7.84 kg	-

(ii) **Compliance**

S No	Activity	Good/Satisfactory/Poor
1	Collection & Storage Availability of Plastic Bags/buckets	Good
2	Mode of Transportation	Good
3	Knowledge Attitude & Practices among BMW Handlers	Good

**PROFORMA FOR INSPECTION OF HEALTH CARE EST
FOR BMW DISPOSAL (CONTD)**

(iii) Final Disposal

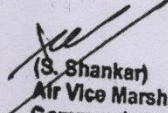
Sno	Equipment	Working/Not working	Remarks
1	Incinerators	-	-
2	Plasma Pyrolysis	-	-
3	Autoclaves	Working	-
4	Microwave	-	-
5	Hydroclave	-	-
6	Shredder	-	-
7	Needle tip cutter or destroyer	Working	-
8	Sharps encapsulation or concrete pit	-	-
9	Deep burial pits	-	-
10	Chemical disinfection	-	-
11	Any other treatment equipment:	-	-

3. Declaration

I hereby declare that the statements made and information given above is true to the best of my knowledge and belief and I have not concealed any information

Date: Jan 23

102 JAN 2023


(S. Shankar)
Air Vice Marshal
Commandant
CHAF, Bengaluru-07
Signature of Commandant

“FORM-IV A”

**FORMAT FOR SUBMISSION OF INFORMATION ON
 BIO MEDICAL WASTE MANAGEMENT BY THE AFHCE**

1	Name of Organization	Command Hospital Air Force Bangalore-560007
2	Name of the Nodal Officer with contact Telephone No and email	AVM S SHANKAR Commandant Command Hospital Air Force Tele : 25369030/201 Email ID:Chafb.1959.gov.in
3	Total no of Health Care Facility	One
	(i) Bedded hospitals and Nursing homes (bedded)	Bedded hospital
	(ii) Clinics, Dispensaries	Yes
	(iii) Pathological Laboratories	NABL certified Laboratory
	(iv) Blood Banks	One
	(v) Clinical Establishment	Nil
	(vi) Research Institutions	Nil
	(vii) AYUSH	Nil
4	Total No of Beds	800 (laid 722)
5	Status of Authorization	No: 3548/DGAFMS/DG-3A dated 28 Oct 2019 valid up to 28 Oct 2024.
	(i) Total No of Occupiers applied for authorization	-
	(ii) Total no of Occupiers granted authorization	-
	(iii) Total no of application under consideration	-
	(iv) Total no of applications rejected	-
	(v) Total no of occupiers in operation without applying for authorization	-
6	Quantity of Bio Medical Waste generation (In Kg /day)	
	(i) Biomedical generation by bedded hospitals (In KG /day)	78.38 Kg/day (Yellow, Red, White & Blue)
	(ii) Bio medical waste generation by non bedded hospital (In KG/day)	-
	(iii) Any Other	-
	Total	78.38 kg/day (Yellow, Red, White & Blue)

7	Biomedical waste treatment and disposal		
(a)	By captive biomedical waste treatment and disposal by health care facilities (Please enclose details as per Part-3)		N/A
	(i) No of health care facilities having captive treatment and disposal facility.		N/A
	(ii) Total Bio Medical Waste treated and disposal by captive treatment and facilities in kg/day		N/A
(b)	Bio Medical Waste Treatment and Disposal by common biomedical waste treatment facilities.		
	(i) No of common bio medical waste treatment facilities in operation		-
	(ii) No of Common biomedical waste treatment facilities under consideration.		-
	(iii) Total Bio Medical Waste treated in kg/day		78.38 Kg/day
	(iv) Total treated bio medical waste disposed through authorized recyclers (in kg)		28611.5 Kg/Annum
8	Total no of violation by		
	(i) Health care facilities (bedded and non bedded)		Nil
	(ii) Common bio medical waste treatment facilities		Nil
	(iii) Others(Specific)		Nil
9	Show cause notices / direction issue to defaulters		Nil
	(i) Health care facilities (bedded and non bedded)		Nil
	(ii) Common bio medical waste treatment facilities		Nil
	(iii) Others		Nil
10	Any Other relevant information		Nil
	(i) No of workshop by training conducted during the year		Nil
	(ii) No of occupiers installed liquid waste treatment facility		01
	(iii) Number of captive incinerators complying to the norms		Nil
	(iv) Number of occupiers organized trainings		14
	(v) Number of occupiers constituted bio-medical waste management committee meeting		02
	(vi) Number of occupiers submitted annual report for the previous calendar year		Submitted
	(vii) Occupiers practicing pre treatment of lab microbiology and bio-technology waste		Yes
	(viii) Number of common bio medical waste treatment facilities that have installed continuous online emission monitoring		N/A

Part-2: District wise Biomedical Waste Generation (for the previous calendar year 2022)

Sl no.	Name of the state/union territory	Name of the district	Biomedical waste generation (in Kg/Day)	Existing total biomedical waste treatment capacity (Both Captive and CBMWTF) in Kg/day
				Equipment Total N/A Incinerator: N/A Autoclave : N/A Deep burial: N/A Any other: N/A
			N/A	

Part 3: Information on health care facilities having captive treatment facilities (for the previous calendar year 2022)

Sl no	Name and address of the health care facility	Quantity of bio medical waste generation (in Kg/day)				Total Bio-medical waste generated (in kg/day)	Total installed treatment capacity in kg/day				Total bio medical waste treated and disposed by health care facilities in kg/day	
		Yellow	Red	Blue	White		Incinerator	Autoclave	Deep burial	Any other		
												Incinerator: N/A Autoclave N/A Deep burial N/A Any other N/A Total N/A

Pa 4: Information on Common Bio-Medical Waste Treatment Facilities (for the previous calendar year 2021)

Sl No	Name and address of the Common Bio Medical Waste Treatment Facilities with contact person name and telephone number	GPS coordinates	Name of the cities /areas covered by Common Bio Medical Waste Treatment Facilities	Total number of beds covered being covered	Total quantity of bio medical waste	Capacity of Treatment equipment installed by Common Bio Medical Waste Treatment Facilities collected from member health care facilities(In kg/day)	Method of disposal of treated wastes (Incineration Ash/Sharps/plastic)																																							
1.	Anu Autoclave & Incin Service. Sy No.145/2, Gullahali Village, Sulibele Hobli, Hoskote Taluk, Bangalore Rural Dist Pin - 562122 Name-PSS Rao, Mob-8861437446 Phone -080-41242178	13.09'37.1"N77.51'05.8"E	East Bangalore & other part of Bangalore	8000	912.5 tons/Annun	<table border="1"> <thead> <tr> <th>Equipment</th> <th>Numbers</th> <th>Total installed capacity (kg/day)</th> <th>Total bio-Medical Waste Treated in kg/day</th> </tr> </thead> <tbody> <tr> <td>Incinerator</td> <td>02</td> <td>250 kg/hr 100 kg/hr</td> <td rowspan="4">2.5 tons/day</td> </tr> <tr> <td>Plasma Pyrolysis</td> <td>Nil</td> <td>Nil</td> </tr> <tr> <td>Autoclave</td> <td>01</td> <td>240 Ltr/Hr</td> </tr> <tr> <td>Hydroclave</td> <td>Nil</td> <td>Nil</td> </tr> <tr> <td>Microwave Shredder</td> <td>Nil</td> <td>Nil</td> <td rowspan="2">Plastics Disposed by authorized recycler</td> </tr> <tr> <td>Sharps encapsulation or concrete pit</td> <td>As per requirement</td> <td>18.2 tons/Annun</td> </tr> <tr> <td>Deep burial pits</td> <td>Nil</td> <td>Nil</td> <td rowspan="2">ETP sludge Disposed by land filling</td> </tr> <tr> <td>Any other equipment</td> <td>Nil</td> <td>Nil</td> </tr> <tr> <td>Effluent Treatment Plant</td> <td>01</td> <td>8000 Ltr</td> <td></td> </tr> <tr> <td>Sub Total</td> <td>06</td> <td></td> <td></td> </tr> </tbody> </table>	Equipment	Numbers	Total installed capacity (kg/day)	Total bio-Medical Waste Treated in kg/day	Incinerator	02	250 kg/hr 100 kg/hr	2.5 tons/day	Plasma Pyrolysis	Nil	Nil	Autoclave	01	240 Ltr/Hr	Hydroclave	Nil	Nil	Microwave Shredder	Nil	Nil	Plastics Disposed by authorized recycler	Sharps encapsulation or concrete pit	As per requirement	18.2 tons/Annun	Deep burial pits	Nil	Nil	ETP sludge Disposed by land filling	Any other equipment	Nil	Nil	Effluent Treatment Plant	01	8000 Ltr		Sub Total	06			a) Incineration b) Autoclaving c) cemented encapsulation d) Land filling Incineration Ash Quantity 364 tons/Annun Disposed by Land filling Sharps Quantity 18.2 tons/Annun Disposed by cemented encapsulation Plastics Quantity 136.5 tons/Annun Disposed by authorized recycler ETP sludge Quantity 10 tons Disposed by land filling
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Effluent Treatment Plant	01	8000 Ltr																																												
Sub Total	06																																													

- (a) Total numbers of transportation vehicles used for collection of Bio-medical Waste on daily basis by the common bio-medical waste treatment facilities- **02**
- (b) List of Health care Facilities not having membership with the common Bio-medical Waste treatment facilities and neither having captive treatment facilities- **Nil**
- (c) Number of training organized by the common bio –Medical waste treatment facility operators: **14 training sessions in 2022**
- (d) Number of accidents reported by the common bio-Medical waste Treatment Facilities: **NIL**