

WASTE MANAGEMENT

The Institute of Aerospace Medicine upholds the importance of safe work practices and better environment for effective and efficient functioning of services provided by the various departments and Station Medicare Centre (SMC). The organisation manages a conducive work environment needed to achieve conformity to service requirements like safety rules, use of safety equipment, cleanliness, noise, illumination, hygiene, ventilation, pollution and waste management.

The healthcare workers, laboratory staff and waste handlers are educated on a regular basis on importance of practicing sanitization, hand hygiene, respiratory etiquettes, social distancing and appropriate use of PPE. The work surfaces are decontaminated twice daily; before the work begins and at completion of work. The equipment such as electromedical equipment, vortex, centrifuge, deep freezer, telephone and computer keyboards are decontaminated on a daily basis.

The disposal of pathological solid and liquid Biomedical waste is implemented in the Institute and SMC as per the Biomedical waste (BMW) management rules 2016 (amended 2019). The most essential part of BMW is segregation and is performed within the premises based on colour code. Mutilation/shredding of the needle is done. There is no chemical pre-treatment before incineration. Chlorinated plastics are not incinerated.

Liquid BMW generated in laboratory is collected in a container containing freshly prepared 1% hypochlorite for pre-treatment before disposal into sewerage system. Biodegradable dry and wet solid waste is segregated and tied securely in leak proof bags.

The use of hazardous material is unavoidable and there is a risk of spillage. These could be substances like blood/ body fluids, chemicals (pesticides, disinfectants and chemicals). A policy to contain the spill, clean the spilt material and dispose them appropriately, without causing adverse effects to the handlers is in place. This spill-kit contains the safety data sheets of all chemicals, lab-kits and housekeeping solutions. The laboratory and housekeeping staff are familiarised with the kit and periodically trained.

Management protocols are followed for occupational exposure to blood/ body fluids as per DGAFMS guidelines 5496/HIV policy/DGAFMS/DG-3 dated 01 Feb 2010 for post exposure prophylaxis (PEP). Also, there is a laid down guideline for PEP of HCV/HBV.

The guidelines on sorting/labelling/handling/storage/transport and disposal of hazardous material like explosives, flammable compressed gases, non-flammable compressed gases, flammable liquids, oxidising flammables, toxic materials like vaccines/ cytotoxics/ radioactive materials, corrosives have been placed in order. Large containers with corrosives are stored at ground level. Smaller containers with corrosives are placed at work bench level. All flammables except working supply are stored in fire proof cabinets outside the lab away from the Sunlight.

The COVID-19 waste is identified at sample collection area, treatment zone and quarantine facility. The COVID-19 waste is segregated at source using double layer liner for disposal and priority treatment. A separate record of BMW and COVID-19 waste generated is maintained in the log book. The BMW and COVID-19 wastes are collected thrice in a week from Laboratory and SMC by an outsourced agency for disposal to CBWTF.

The e-waste generated in the Institute and SMC are disposed through Metal and Scrap Trading Corporation (MSTC) Limited.

The President of India represented by Commandant, Institute of Aerospace Medicine, Air Force Bangalore (Contract Operating Authority), hereinafter referred to as the CUSTOMER, which terms, unless Excluded by the contract, shall be deemed to include his successor(s) and permitted assignees, ON THE FIRST PART

AND

ANU AUTOCLAVE & INCIN SERVICES having its registered office at GF, #854/F, 10th Main, Indiranagar 2nd Stage, Bangalore – 560038 hereinafter referred to as the CONTRACTOR, which expression shall include their Administrator, Executors, Successors and Assignees, ON THE SECOND PART.

AND whereas the customer agrees to deliver the Bio Medical Waste to The CONTRACTOR for undertaking its treatment and disposal as per the Central Pollution Control Board Guidelines for a period of 12 months effective from the date of this contract.

It is now agreed by and between both the parties here to as follows: -

1. CONTRACTOR with consent from Karnataka State Pollution Control Board has established a Treatment facility for Bio Medical Waste in Bangalore at Sy No – 145/2 Gullahalli Village, Sulibele Hobli, Hoskote Taluk, Bangalore Rural Dist-562122. The facility consists of State-of-the-art Autoclave system along with Shredder and Incinerator.
2. (a) CUSTOMER will give Bio Medical Waste, properly packed in Color-coded bags as per Pollution Control Board regulations for treatment and disposal to CONTRACTOR at a Single Common Storage Point in Pathology Dept, IAM and SMC MP Camp.
(b) The CONTRACTOR will employ adequate manpower to collect Bio Medical Waste from common storage point, including driver and covered vehicle of appropriate capacity to collect BMW from storage place and dispose the same, in morning time on a weekly thrice basis except on Sunday.
3. The CONTRACTOR will issue a proof of BMW collection at the time of collecting, for auditing of Bio Medical Waste.
4. The Institute authority would not be liable for any action for any injuries sustained or any diseases contracted by the CONTRACTOR's workers during the disposal of waste. The CONTRACTOR will undertake any investigation/treatment of worker at his own cost. The CONTRACTOR shall abide by Employee's Provident Funds and MISC provisions of Act 1952 and other relevant enactments of center/state government in respect of employees engage by him for collection of BMW from common storage point.
5. Disposal of BMW collected from the premises will be the sole responsibility of the CONTRACTOR and this institute will not be liable to answer any query on area where such articles are disposed of. Hence disposal at appropriate place as specified by the competent authority shall be the responsibility of the CONTRACTOR.
6. He will collect untreated infected BMW from central storage site at Institute Pathology/SMC and treatment/disposal of the waste will be done at CONTRACTOR's site.
7. Any violation of the laid down procedure on indulging in unlawful activities by the CONTRACTOR is liable for penal deduction in monthly payment to cessation of contract without notice.
8. The CONTRACTOR will supply a total number of 06 (six) Puncture proof containers, 24 (twenty-four) Polythene bags (12 each of yellow, Red color) per month.
9. CONTRACTOR will collect Bio medical waste regularly and treat the waste as per the regulations. The Inspection will be carried out by SMO/HOD Pathology. CONTRACTOR will not collect any waste segregated or properly packed. CONTRACTOR will not collect any general garbage.



(विजय वि जोशी / Vijay V Joshi)
एयर कमांडर / Air Cmde
समादेशक / Commandant
वां औ सं, भा वा से / IAM, IAF

10. Essential details of Items/Services Contracted –		Amount in Rs
SI No.	Description	
1	Collection of bio-medical waste from your premises and transportation, treatment & disposal of the same except liquid waste, Radioactive elements & Hazardous waste. Weekly Thrice Collection (Except on Sunday)	11,000/-
2	Purchase of Puncture-proof containers (6 puncture proof containers)	935/-
3	Purchase of polythene bags (24 Polythene bags)	165/-
Total Monthly Charges (*GST Included)		12,100/- (Twelve thousand & One hundred only)

M, IAF
Nomenclature
Monthly cost (Pathology treatment)
01

11. **Payment Terms:** - CUSTOMER will ensure timely payment to CONTRACTOR on or before 10th of every month, for the Bio Medical Waste collected, treated and disposed during the previous month provided the bill complete in all respects is submitted by 3rd of the following month. No advance payment will be made. The payment will be made as per the laid down term, on production of the requisite documents: -

- (a) Ink signed copy of contingent bill/company/agency bill.
- (b) Ink signed copy of commercial invoice/company/agency bill.
- (c) Claim for statutory and other levies to be supported with requisite documents/proof of payment such as excise duty challan, customs duty clearance certificate, octroi receipt, proof of payment for EPF/ESIC contribution with nominal roll of beneficiaries, etc as applicable.
- (d) Exemption certificate for excise duty/customs duty, if applicable.
- (e) Guarantee/Warranty certificate.
- (f) **Details for electronic payment: -**
A/c Name: **ANU AUTOCLAVE & INCIN SERVICES; A/c.No: 0000038600340239;**
Type of A/c: **CURRENT ACCOUNT; Bank: STATE BANK OF INDIA; MICR Code: 560002183.**
Branch: **PREMIER BANKING BRANCH - INDIRANAGAR; IFSC Code: SBIN0015035.**
- (g) Any other documents/certificate that may be provided for in the supply order/contract.

12. **Paying Authority:** - Senior Accountant Officer, Institute of Aerospace Medicine, Bangalore will be the paying Authority.

13. In case of non-collection of waste as agreed to by CONTRACTOR for any reason proportionate payment for the Days with penalty @ 10% will be deducted from the amount payable by the CUSTOMER to CONTRACTOR in the monthly bills.

14. CONTRACTOR will maintain the plant in good running condition all the time and ensure continuity of service on all days without fail as per the terms and conditions of this contract.

15. All disputes relating to this agreement are subject to the jurisdiction of the Court in Bangalore only.

16. This agreement is effective from **01 JULY 2021 to 30 JUNE 2022.**

For Anu Autoclave & Incin. Services.,


For Institute of Aerospace Medicine, AF-Bangalore.


Business-Head.



Commandant.

For and on behalf of President of India


(विजय वि जोशी / Vijay V Joshi)
एयर कमांडर / Air Cmde
संस्थान / Commandant
वा अॉ स, आ वा से / IAM, IAF

