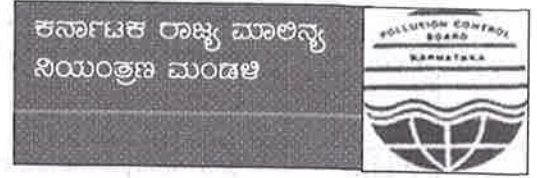


Office of the Regional Officer  
Karnataka State Pollution Control  
Board, Regional Office, Bommanahalli  
"PRAKRUTHI BHAVAN" Ground  
Floor, Site No. 1421, Sector -C,  
Suryanagar 2<sup>nd</sup> Stage, Anekal Taluk,  
Bengaluru Urban District  
Phone : (0)

ಪ್ರಾದೇಶಿಕ ಅಧಿಕಾರಿಯವರ ಕಛೇರಿ  
ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ  
ಪ್ರಾದೇಶಿಕ ಕಛೇರಿ- ಬೊಮ್ಮನಹಳ್ಳಿ, "ಪ್ರಕೃತಿ ಭವನ"  
ನೇಲ ಅಂತಸ್ತು, ಸೈಟ್ ನಂ-1421, ಸೆಕ್ಟರ್ -ಸಿ,  
ಸೂರ್ಯನಗರ 2ನೇ ಹಂತ, ಆನೇಕಲ್ ತಾಲ್ಲೂಕು,  
ಬೆಂಗಳೂರು ನಗರ ಜಿಲ್ಲೆ  
ದೂರವಾಣಿ:



Towards a cleaner Karnataka

**FORM -III**  
**(See rule 10)**  
**AUTHORISATION**

(Authorization for operating a facility for generation, collection, reception, treatment, storage, transport and disposal of biomedical wastes)

- 9 JUN 2022

1. Authorization No. 12 / PCB/RO/BMN/ BMW- 2022-23/08/ 1403

Date:

2 M/s. Tata Advanced Systems Limited., is an Large Red Industry is having in house health care facility for their employees located at Hosur Main road, Electronic City Phase-1, Bangalore-560100 is hereby granted an authorization for;

Activity	Please Tick
Generation, Segregation	<input checked="" type="checkbox"/>
Collection	<input checked="" type="checkbox"/>
Storage	<input checked="" type="checkbox"/>
Packaging	<input checked="" type="checkbox"/>
Reception	<input checked="" type="checkbox"/>
Transportation	--
Treatment or Processing or conversion	--
Recycling	--
Disposal or destruction	--
Use	--
Offering for sale, transfer	--
Any other form of handling	--

3 M/s. Tata Advanced Systems Limited is hereby authorized for handling of Biomedical waste as per the capacity given below

(i) Number of beds of HCF: Nil

(ii) Quantity of Biomedical waste handled, treated or disposed: 2400 Grams/ Month.

Cat.No (1)	Waste category Type(2)	Quantity generated/ collected(3)	Treatment & disposal method(4)
Yellow	a) Human Anatomical Waste:	1000 Grams / Month	The Clinic shall hand over the wastes of this category to CBMWTF
	(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 clinical laboratory waste:		
Red	Contaminated Waste (Recyclable)	800 Grams / Month	The Clinic shall hand over the wastes of this category to CBMWTF
White (Translucent)	Waste sharps including Metals	100 Grams / Month	-do-
Blue	Glassware :	500 Grams / Month	-do-
	Metallic Body Implants		

- 4 This is a **onetime permanent authorization** issued as per the Biomedical Waste Management Rules 2016 notified by Government of India, Ministry of Environment, Forest & Climate Change, New Delhi Dtd: 28<sup>th</sup> March 2016
- 5 This authorization is subject to the conditions stated below and to such other conditions as may be specified in the rules for the time being in force under the Environment (Protection) Act, 1986.

  
**Environmental Officer**  
**RO-Bommanahalli**

To

**M/s. Tata Advanced Systems Limited.,**  
**at Hosur Main Road,**  
**Electronic City Phase-1,**  
**Bangalore-560100**

### Terms and conditions of authorization

1. The applicant shall comply with the provisions of the Environment (Protection) Act, 1986 and the rules made there under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the prescribed authority (Karnataka State Pollution Control Board)
3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the biomedical wastes without obtaining prior permission of the prescribed authority.
4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
5. It is the duty of the authorized person to take prior permission of the prescribed authority to close down the facility and such other terms and conditions may be stipulated by the prescribed authority.
6. The applicant shall file Annual report in the Form – IV on or before 30<sup>th</sup> June every year for the period from January to December of the preceding year w.r.t details of Bio medical Waste Storage, Treatment, Transportation, Processing and Disposal Facility.
7. The applicant shall immediately report to the Board of any accident.
8. The applicant shall take all necessary steps to ensure that bio-medical waste is handled without any adverse effect to human health and the environment and in accordance with rules.
9. The applicant shall make a provision within the premises for a safe, ventilated and secured location for storage of segregated biomedical waste in colored bags or containers in the manner as specified in Schedule I, to ensure that there shall be no secondary handling, pilferage of recyclables or inadvertent scattering or spillage by animals and the bio-medical waste from such place or premises shall be directly transported in the manner as prescribed in rules to the common bio-medical waste treatment facility or for the appropriate treatment and disposal, as the case may be, in the manner as prescribed in Schedule I.
10. The applicant shall pre-treat the laboratory waste, microbiological waste, blood samples and blood bags through disinfection or sterilization on-site in the manner as prescribed by the World Health Organization (WHO) or National AIDs Control Organization (NACO) guidelines and then sent to the common bio-medical waste treatment facility for final disposal; if any.
11. The applicant shall phase out use of chlorinated plastic bags, gloves and blood bags within two years from the date of notification of these rules;
12. The applicant shall dispose of solid waste other than bio-medical waste in accordance with the provisions of respective waste management rules made under the relevant laws and amended from time to time
13. The applicant shall provide training to all its health care workers and others, involved in handling of bio medical waste at the time of induction and thereafter at least once every year and the details of training program conducted, number of personnel trained and number of personnel not undergone any training shall be provided in the Annual Report.
14. The applicant shall immunize all its health care workers and others, involved in handling of bio-medical waste for protection against diseases including Hepatitis B and Tetanus that are likely to be transmitted by handling of bio-medical waste, in the manner as prescribed in the National Immunization Policy or the guidelines of the Ministry of Health and Family Welfare issued from time to time.
15. The applicant shall establish a Bar- Code System for bags or containers containing bio-medical waste to be sent out of the premises or place for any purpose within one year from the date of the notification of these rules;

  
Environmental Officer  
RO-Bommanahalli

16. The applicant shall ensure segregation of liquid chemical waste at source and ensure pre-treatment or neutralization prior to mixing with other effluent generated from health care facilities; If any.
17. The applicant shall ensure treatment and disposal of liquid waste in accordance with the Water (Prevention and Control of Pollution) Act, 1974 ( 6 of 1974). The treated effluents shall conform to the standards for discharge of liquid wastes as mentioned below.

#### STANDARDS FOR DISCHARGE OF LIQUID WASTE

Sl. No.	Parameters	Permissible units
01	pH	6.5- 9.0
02	Suspended solids	100mg/l
03	Oil & grease	10mg/l
04	BOD	30mg/l
05	COD	250mg/l
06	Bio-assay test	90%Survival of fish after 96 hours in 100% effluent

**Note:** Sludge from effluent treatment plant shall be disposed to common Bio medical wastes treatment facility for incineration or to hazardous waste treatment, storage and disposal facility.

18. The applicant shall ensure occupational safety of all its health care workers and others involved in handling of biomedical waste by providing appropriate and adequate personal protective equipments;
19. The applicant shall conduct health check up at the time of induction and at least once in a year for all its health care workers and others involved in handling of bio- medical waste and maintain the records for the same;
20. The applicant shall maintain and update on day to day basis the bio-medical waste management register and display the monthly record on its website according to the bio-medical waste generated in terms of category and colour coding as specified in Schedule I;
21. The applicant shall report major accidents including accidents caused by fire hazards, blasts during handling of biomedical waste and the remedial action taken and the records relevant thereto, (including nil report) in Form I to the prescribed authority and also along with the annual report to Regional Office, Bommanahalli.
22. The applicant shall make available the annual report on its web-site and all the health care facilities shall make own website within two years from the date of notification of these rules.
23. The applicant shall inform the prescribed authority immediately in case the operator of a facility does not collect the bio-medical waste within the intended time or as per the agreed time;
24. The applicant shall designate a qualified person to review and monitor the activities relating to bio-medical waste management within that establishment and submit the annual report.
25. The applicant shall display Charter on implementation of Bio-Medical Waste (M&H) Rules to the public in the hospital.
26. The applicant shall display this authorization at a prominent place like reception / entrance Etc.,
27. The agreement copy with **M/s. Maridi Bio Industries Systems**, to handle BMW waste is valid upto 31.05.2022. After the date of expiry, you are hereby informed to submit the renewal of agreement copy to handle the BMW waste. Failing which BMW authorization issued will be withdrawn.

  
**Environmental Officer**  
**RO-Bommanahalli**

### Schedule I

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


#### Part-I

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

Category	Type of Waste	Type of Bag or Container to be used	Treatment and Disposal option
(1)	(2)	(3)	(4)
Yellow	a) Human Anatomical Waste:	Yellow coloured non-chlorinated plastic bags	Incineration or Plasma Pyrolysis deep burial*
	(b) Animal Anatomical Waste :		Incineration or Plasma Pyrolysis deep burial*. In absence of above facilities, autoclaving or microwaving/ hydroclaving followed by shredding or mutilation or combination of sterilization and shredding. Treated waste to be sent for energy recovery.
	c) Soiled Waste:		
	d) Expired or Discarded Medicines:	Yellow coloured non-chlorinated plastic bags or containers	Expired cytotoxic drugs and its contaminated with cytotoxic drug be returned back to the manufacturer or supplier for incineration at temperature >1200 °C or to common bio-medical waste treatment facility or hazardous waste treatment storage and disposal facility incineration at >1200°C Encapsulation or Plasma Pyrolysis >1200°C.  All other discarded medicines shall be either sent back to manufacturer or disposed by incineration.
	e) Chemical Waste:	Yellow coloured containers or non-chlorinated plastic bags	Disposed of by incineration Plasma Pyrolysis or Encapsulation hazardous waste treatment, storage and disposal facility.
	f) Chemical Liquid Waste :	Separate collection system leading to effluent treatment system	After resource recovery, chemical liquid waste shall be pre-treated before mixing with other wastewater. The combined discharge shall conform to the discharge norms given in Schedule-III.
	g) Discarded linen, mattresses, beddings contaminated with blood or body fluid.	Non-chlorinated yellow plastic bags or suitable packing material	Non-chlorinated chemical disinfection followed by incineration or Plasma Pyrolysis or for energy recovery. In absence of above facilities



Category	Type of Waste	Type of Bag or Container to be used	Treatment and Disposal
			shredding or mu combination of ster shredding. Treated was for energy recovery or or Plazma Pyrolysis.
	(h) Microbiology, Biotechnology and other clinical laboratory waste:	Autoclave safe plastic bags or containers	Pre-treat to sterilize chlorinated chemicals c National AIDS Control or World Health guidelines thereafter for
Red	Contaminated Waste (Recyclable)	Red coloured non-chlorinated plastic bags or containers	Autoclaving or micro-w hydroclaving followed or mutilation or con sterilization and shredd waste to be sent ) r authorized recyclers or recovery or plastics to c oil or for road making, w possible. Plastic waste s sent to landfill sites.
White (Translucent)	Waste sharps including Metals	Puncture proof, Leak proof, tamper proof containers	Autoclaving or I Sterilization followed b or mutilation or encap metal container or ceme combination of shrec autoclaving; and sent disposal to iron foundr consent to operate from Pollution Control E Pollution Control Com sanitary landfill or concrete waste sharp pit.
Blue	a) Glassware	Cardboard boxes with blue colored marking	Disinfection (by so hg glass waste after clea detergent and Sodium Hy Treatment) or through aut microwaving or hydrocl then sent for recycling.
	b) Metallic Body Implants		

  
**Environmental Officer**  
**RO-Bommanhalli**

**SCHEDULE IV**  
[See rule 8(3) and (5)]  
Part A

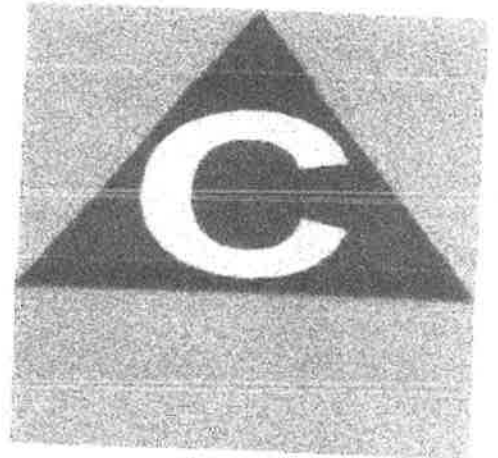
**LABEL FOR BIO-MEDICAL WASTE CONTAINERS/BAGS**

**BIOHAZARD SYMBOL**



**HANDLE WITH CARE**

**CYTOTOXIC HAZARD SYMBOL**



**HANDLE WITH CARE**

*Note: Label shall be non-washable and prominently visible.*

*K.S. Shale*  
**Environmental Officer**  
**RO-Bommanhalli**

