

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

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

20 MAY 2022

Date:

1. Authorization No. <sup>13</sup> / PCB/RO/BMN/ BMW- 2022-23/26/ 354
2. M/s. Tata Power Solar Systems Limited., is an Large Red Industry is having in house health care facility for their employees located at Plot No.43(P) &44(P), Electronic City,Phase-2,Hosur Road, Bangalore-560010 is hereby granted an authorization for;

| Activity                              | Please Tick |
|---------------------------------------|-------------|
| Generation, Segregation               | ✓           |
| Collection                            | ✓           |
| Storage                               | ✓           |
| Packaging                             | ✓           |
| Reception                             | ✓           |
| Transportation                        | --          |
| Treatment or Processing or conversion | --          |
| Recycling                             | --          |
| Disposal or destruction               | --          |
| Use                                   | --          |
| Offering for sale, transfer           | --          |
| Any other form of handling            | --          |


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

- (i) Number of beds of HCF: Nil  
(ii) Quantity of Biomedical waste handled, treated or disposed: 3950 Grams/ Day.

| Cat.No (1) | Waste category Type(2)   | Quantity generated/ collected(3) | Treatment & disposal method(4)                                   |
|------------|--|----------------------------------|--|
| Yellow     | a) Human Anatomical Waste:<br>(b) Animal Anatomical Waste :<br>c) Soiled Waste:<br>d) Expired or Discarded Medicines:<br>e) Chemical Solid Waste:<br>f) Chemical Liquid Waste :<br>g) Discarded linen, mattresses, beddings contaminated with blood or body fluid.<br>(h) Microbiology, Biotechnology and other clinical laboratory waste: | 2000 Grams / Day                 | The Clinic shall hand over the wastes of this category to CBMWTF |

|                     |                                 |                  |  |
|---------------------|---------------------------------|------------------|--|
| Red                 | Contaminated Waste (Recyclable) | 1750 Grams / Day | The Clinic shall hand over the wastes of this category to CBMWTF |
| White (Translucent) | Waste sharps including Metals   | 100 Grams / Day  | -do-   |
| Blue                | Glassware :                     | 100 Grams / Day  | -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 Power Solar Systems Limited.,  
at Plot No.43(P) &44(P), Electronic City,  
Phase-2, Hosur Road,  
Bangalore-560010**

### 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 confirm 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 form effluent treatment plant shall be dispose 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 31.08.2022. 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-1

#### 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 options   |
|----------|---|--|--|
| (1)      | (2)   | (3)  | (4)  |
| Yellow   | a) Human Anatomical Waste:  | Yellow coloured non-chlorinated plastic bags                     | Incineration or Plasma Pyrolysis or deep burial*   |
|          | (b) Animal Anatomical Waste :   |  | Incineration or Plasma Pyrolysis or deep burial*. In absence of above facilities, autoclaving or micro-waving/ 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 items contaminated with cytotoxic drugs to 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 for incineration at >1200°C or Encapsulation or Plasma Pyrolysis at >1200°C.<br><br>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 or Plasma Pyrolysis or Encapsulation in hazardous waste treatment, storage and disposal facility.  |
|          | f) Chemical Liquid Waste :  | Separate collection system leading to effluent treatment system  | After resource recovery, the 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.<br><br>In absence of above facilities,  |

| Category            | Type of Waste  | Type of Bag or Container to be used                     | Treatment and Disposal of  |
|---------------------|--|---|--|
|                     |  |   | shredding or mutilation or combination of sterilization and shredding. Treated waste to be sent to incinerator for energy recovery or incineration or Plasma Pyrolysis.  |
|                     | (h) Microbiology, Biotechnology and other clinical laboratory waste: | Autoclave safe plastic bags or containers               | Pre-treat to sterilize with chlorinated chemicals on-site. National AIDS Control Organisation or World Health Organisation guidelines thereafter for incineration.   |
| Red                 | Contaminated Waste (Recyclable)                                      | Red coloured non-chlorinated plastic bags or containers | Autoclaving or micro-waving or hydroclaving followed by shredding or mutilation or combination of sterilization and shredding. Waste to be sent to registered authorized recyclers or for energy recovery or plastics to diesel fuel or for road making, whichever is possible. Plastic waste should not be sent to landfill sites.                |
| White (Translucent) | Waste sharps including Metals  | Puncture proof, Leak proof, tamper proof containers     | Autoclaving or Dry Heat Sterilization followed by shredding or mutilation or encapsulation in metal container or cement combination of shredding and autoclaving; and sent for disposal to iron foundries (with consent from the Pollution Control Boards or Pollution Control Committee sanitary landfill or designated concrete waste sharp pit. |
| Blue                | a) Glassware   | Cardboard boxes with blue colored marking               | Disinfection (by soaking the waste in detergent and Sodium Hypochlorite Treatment) or through autoclaving or microwaving or hydroclaving then sent for recycling.  |
|                     | b) Metallic Body Implants  |   |  |

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

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

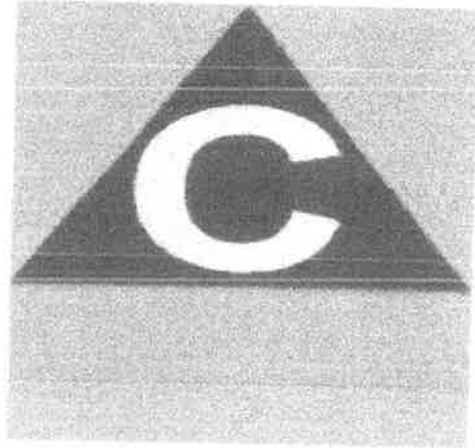
**LABEL FOR BIO-MEDICAL WASTE CONTAINERS/BAGS**

**BIOHAZARD SYMBOL**



**HANDLE WITH CARE**

**CYTOTOXIC HAZARD SYMBOL**



**HANDLE WITH CARE**

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

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