

स्टील अथॉरिटी ऑफ इण्डिया लि०
बोकारो स्टील प्लान्ट
इस्पात भवन
बोकारो स्टील सिटी - 827 001
जिला : बोकारो (झारखण्ड)
फैक्स संख्या : 06542 242099
दूरभाष संख्या 06542 246605



SPEED POST

STEEL AUTHORITY OF INDIA LTD.
BOKARO STEEL PLANT
ISPAT BHAWAN
BOKARO STEEL CITY - 827001
DISTRICT - BOKARO (JHARKHAND)
Ph. No. 06542 246605 Fax No. 242099
E-mail : bslecd@gmail.com

REF NO. इसीएस/इएमएस/12/2024-116

DATE 28/03/2024

सेवा में,

सदस्य सचिव
झारखण्ड राज्य प्रदूषण नियंत्रण पर्वद
टी ए डिविजन बिल्डिंग
एच० ई० सी० कम्पलेक्स
धुर्वा राँची 834004

विषय : कैलेंडर वर्ष 2023 में बायोमेडिकल वेस्ट अनुपालन प्रतिवेदन ।

महाशय,

कैलेंडर वर्ष 2023 में बोकारो जनरल अस्पताल के बायोमेडिकल वेस्ट अनुपालन प्रतिवेदन अवलोकनार्थ एवं उचित कारबाई हेतु संलग्न है।

सधन्यवाद ।

आपका विश्वासी
वास्ते सेल/बोकारो स्टील प्लान्ट

नवीन 28.3.24

एन पी श्रीवास्तव
महाप्रबंधक/पर्यावरण संरक्षण

प्रतिलिपि

क्षेत्रीय पदाधिकारी
झारखण्ड राज्य प्रदूषण नियंत्रण पर्वद
हाउसिंग कोलोनी
एच आई जी-1
बरटांड
धनबाद-826001

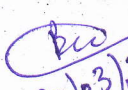
Form - IV
(See rule 13)
ANNUAL REPORT

[To be submitted to the prescribed authority on or before 30th June every year for the period from January to December of the preceding year, by the occupier of health care facility (HCF) or common bio-medical waste treatment facility (CBWTF)]


| SN | Particulars | | |
|----|--|--|---|
| 1. | Particulars of the Occupier | | |
| | (i) Name of the authorised person (occupier or operator of facility) | | Dr B.B KARUNAMAY, CHIEF MEDICAL OFFICER |
| | (ii) Name of HCF or CBMWTF : | | Bokaro General Hospital |
| | (iii) Address for Correspondence | | BOKARO STEEL CITY , BOKARO , JHARKHAND , 827004 |
| | (iv) Address of Facility | | BOKARO STEEL CITY , BOKARO , JHARKHAND , 827004 |
| | (v) Tel. No, Fax. No | | 06542-231227 – 231227, 06542 - 232911 |
| | (vi) E-mail ID | | bsl.bgh@sail.in , sailbgh@gmail.com |
| | (vii) URL of Website | | https://sail.co.in/plants/about-bokaro-steel-plant |
| | (viii) GPS coordinates of HCF or CBMWTF | | |
| | (ix) Ownership of HCF or CBMWTF | | Dr B.B KARUNAMAY, CHIEF MEDICAL OFFICER |
| | (x). Status of Authorisation under the Bio-Medical Waste (Management and Handling) Rules | | Authorisation No.:JSPCB/HO/RNC/BMW-9200586/2021/3 09/02/2021valid up to 31.12.2024 |
| | (xi). Status of Consents under Water Act and Air Act | | Valid up to: 31.12.2024 |
| 2. | Type of Health Care Facility | | |
| | (i) Bedded Hospital | | No. of Beds: 910 |
| | (ii) Non-bedded hospital (Clinic or Blood Bank or Clinical Laboratory or Research Institute or Veterinary Hospital or any other) | | NA |
| | (iii) License number and its date of expiry | | 2035500836 valid up to 03.04.24 |
| 3. | Details of CBMWTF | | Not applicable (BGH having captive Incinerator) |
| | (i) Number healthcare facilities covered by CBMWTF | | NA |
| | (ii) No of beds covered by CBMWTF | | NA |
| | (iii) Installed treatment and disposal capacity of | | __NA__ Kg per day |

20/03/2024
RANJU KUMARI
Jr. Officer (M & HS)
BOKARO GENERAL HOSPITAL

| | CBMWTF: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|--|-------------|-----------------|--|--------------|----|---------|-------------------|------------------|---|--|------------|---|--|-----------|---|--|------------|---|--|----------|----|--|--------------------------------|----|------------------|--|--------|--|--|--|-------------------------------|----|-----|--|-------------------|----|-----|--|------------------------|----|------------------|--|--------------------------------|--|--|--|--|
| | (iv) Quantity of biomedical waste treated or disposed by CBMWTF | | __NA__ Kg per day | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Quantity of waste generated or disposed in Kg per annum (on monthly average basis) | | Yellow Category :As per annexure-1 Red Category : As per annexure-1 White: As per annexure-1 Blue Category : As per annexure-1 General Solid waste: 150 Tonnes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. | Details of the Storage, treatment, transportation, processing and Disposal Facility | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (i) Details of the on-site storage facility | Size : NA Capacity : NA Provision of on-site storage : (cold storage or any other provision) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (ii) disposal facilities | <table border="1"> <thead> <tr> <th>Type of treatment equipment</th><th>No of units</th><th>Capacity Kg/day</th><th>Quantity treated or disposed in kg per annum</th></tr> </thead> <tbody> <tr> <td>Incinerators</td><td>01</td><td>50Kg/hr</td><td rowspan="6">As per annexure-1</td></tr> <tr> <td>Plasma Pyrolysis</td><td>0</td><td></td></tr> <tr> <td>Autoclaves</td><td>0</td><td></td></tr> <tr> <td>Microwave</td><td>0</td><td></td></tr> <tr> <td>Hydroclave</td><td>0</td><td></td></tr> <tr> <td>Shredder</td><td>01</td><td></td></tr> <tr> <td>Needle tip cutter or destroyer</td><td>45</td><td>One in each ward</td><td></td></tr> <tr> <td>Sharps</td><td></td><td></td><td></td></tr> <tr> <td>encapsulation or concrete pit</td><td>01</td><td>1m3</td><td></td></tr> <tr> <td>Deep burial pits:</td><td>02</td><td>1m3</td><td></td></tr> <tr> <td>Chemical disinfection:</td><td>45</td><td>One in each ward</td><td></td></tr> <tr> <td>Any other treatment equipment:</td><td></td><td></td><td></td></tr> </tbody> </table> | Type of treatment equipment | No of units | Capacity Kg/day | Quantity treated or disposed in kg per annum | Incinerators | 01 | 50Kg/hr | As per annexure-1 | Plasma Pyrolysis | 0 | | Autoclaves | 0 | | Microwave | 0 | | Hydroclave | 0 | | Shredder | 01 | | Needle tip cutter or destroyer | 45 | One in each ward | | Sharps | | | | encapsulation or concrete pit | 01 | 1m3 | | Deep burial pits: | 02 | 1m3 | | Chemical disinfection: | 45 | One in each ward | | Any other treatment equipment: | | | | |
| Type of treatment equipment | No of units | Capacity Kg/day | Quantity treated or disposed in kg per annum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Incinerators | 01 | 50Kg/hr | As per annexure-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Plasma Pyrolysis | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Autoclaves | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Microwave | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydroclave | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shredder | 01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Needle tip cutter or destroyer | 45 | One in each ward | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sharps | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| encapsulation or concrete pit | 01 | 1m3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deep burial pits: | 02 | 1m3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chemical disinfection: | 45 | One in each ward | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Any other treatment equipment: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (iii) Quantity of recyclable wastes sold to authorized recyclers after treatment in kg per annum. | Red Category (like plastic, glass etc.) As per annexure-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (iv) No of vehicles used for collection and transportation of biomedical waste | NA(BGH has its own Captive Incinerator) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

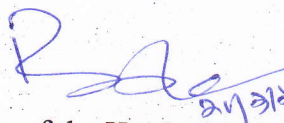

 20/03/2024
RANJU KUMARI
 Jr. Officer (M & HS)
 BOKARO GENERAL HOSPITAL

| | | | | |
|----|--|--------------------------------|----------------------------|--------------------------|
| | (v) Details of incineration ash and ETP sludge generated and disposed during the treatment of wastes in Kg per annum | Incineration Ash ETP Sludge | Quantity generated 60Kg | Where disposed HW Pit |
| | (vi) Name of the Common Bio-Medical Waste Treatment Facility Operator through which wastes are disposed of | NA | | |
| | (vii) List of member HCF not handed over bio-medical waste. | NA | | |
| 6. | Do you have bio-medical waste management committee? If yes, attach minutes of the meetings held during the reporting period | Yes. The copy of MOM attached | | |
| 7. | Details trainings conducted on BMW | | | |
| | (i) Number of trainings conducted on BMW management. | 2 | | |
| | (ii) number of personnel trained | 380 | | |
| | (iii) number of personnel trained at the time of induction | 100 % | | |
| | (iv) number of personnel not undergone any training so far | Nil | | |
| | (v) whether standard manual for training is available? | Yes | | |
| | (vi) any other information) | | | |
| 8. | Details of the accident occurred during the year | NIL | | |
| | (i) Number of Accidents occurred | NA | | |
| | (ii) Number of the persons affected | NA | | |
| | (iii) Remedial Action taken (Please attach details if any) | NA | | |
| | (iv) Any Fatality occurred, details. | NA | | |
| 9. | Are you meeting the standards of air Pollution from the Incinerator? How many times in last year could not meet the standards? | Yes, NIL | | |
| | Details of Continuous online | Installed | | |


 20/03/2024
RANJU KUMARI
 Jr. Officer (M & HS)
 KARO GENERAL HOSPITAL

| | | |
|-----|---|--|
| | emission monitoring systems installed | |
| 10. | Liquid waste generated and treatment methods in place. How many times you have not met the standards in a year? | As per annexure-1, 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? | Yes, NIL |
| 12. | Any other relevant information | Air Pollution Control Devices attached with the Incinerator : Wet Scrubber |

Certified that the above report is for the period from 1st JANUARY 2023 to 31st DECEMBER 2023 and all the information given are correct to the best of my knowledge.

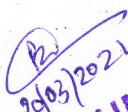

27/3/24

Name and Signature of the Head of the Institution

Date:

Place

Dr. B B Karunamay
CMO (M & HS)
Bokaro General Hospital
SAIL, Bokaro Steel Plant
Code-BBK


29/03/2024
RANJU KUMARI
Jr. Officer (M & HS)
BOKARO GENERAL HOSPITAL

**Minutes of the Housekeeping & BMW Monitoring committee meeting held in
the office of Dy.CMO (M&HS) & Chairman BMW Committee , BGH**

Date: 04/01/2024

Timing: - 11.00 AM

Name of job/ Contract: Sanitation & Disposal of Bio Medical Waste of BGH, OHS

Purpose of Meeting: To review the operational effectiveness and statutory compliance of Biomedical waste Management system in the M&HS department, BSL

1. Members :

- A. Mr Ashok Kumar
- B. Dr. Rajdeep
- C. Dr Awadh Kishore
- D. Mrs. Carol Sharma
- E. Mrs. Sudha Giri
- F. Mrs. Sushila Paswan
- G. Mrs. Ranju Kumari

- GM

- Addl. CMO

- ACO

- AGM

- Dy. Mgr.

- JO

- JO

2. The committee reviewed the monthly performance of the Biomedical waste management of the department (M&HS) outsourced vide work order no. 4565049078, dated 26.07.2023 to M/S SUN FACILITY SERVICES (P) LTD. The job was commenced from 10.08.2023 to 09.08.2025.

3. Point raised for the vendor :-

- a) Supervisor and all contract workers should be in proper dress.
- b) Rotation (In & Out) of Supervisor and contract workers should be done after every 2 or 3 months.
- c) Printed pay slip and attendance card should be provided to all workers.
- d) ESIC and PF should be paid as per norm.
- e) Dress, Shoes and jacket (full dress) should be provided to all workers.
- f) Counselling and safety should be done by supervisor before starting of work.
- g) Mask, Gloves and tester should be provided by the company.
- h) Hand over and take over should be done by machine workers in all shift.
- i) Supervisor should be available in each shift in each floor
- j) Cleaning of floor, glass, fan, door and wall should be done regularly.

4. Performance reports from each work area was reviewed along with actions imposed for non performance /poor performance of defined jobs and endorsement the same

Minutes of the Housekeeping & BMW Monitoring Committee meeting held in the office of Seminar Room (M & HS).

Date: 21.08.2023 at 12.00 Noon

Name of Job/ Contract: MANUAL AND AUTOMATED SANITATION & DISPOSAL OF BIO MEDICAL WASTE OF MEDICAL & HEALTH SERVICES (CAT B)

Purpose of Meeting: To Review the operational effectiveness and statutory compliance of Biomedical Waste Management System in the M & HS department, BSL

1. Members:

| | | |
|--|---|------------------------------|
| A. Dr. Awadh Kishore, ACOMO (M & HS) | - | Eng I/c |
| B. Md Saiffuduja, Asst. Mgr. (M & HS) | - | Member |
| C. Mrs. Sushila Paswan, JO (M & HS) | - | Member |
| D. Mrs. Ranju Kumari, JO (M & HS) | - | Member |
| E. Mr. Sandeep Pandey | - | Manager (M/s Sun Facilities) |

2. The committee reviewed the performance of the Biomedical waste management of the department (M & HS) outsourced vide work order no. 4565049078, dated: 26.07.2023 and shall continue till 09.08.2025.
3. All the supervisors, manager and Contract workers of CAT B are present in this meeting.
4. The committee has discussed about the following matters :-
 - a) Total no. of workers for machine :- 20
 - b) Total Female workers :- 25
 - c) As per work order Contractor must provide at least two set of Uniform, One Rain coat and one pair of shoes.
 - d) Weekly duty roaster should be provide by the supervisor
 - e) Contractor should provide antiseptic soap to the contract workers time to time.
 - f) Attendance card to be duly signed by the ward In charge.
 - g) Proper hand over and takeover of cleaning material/equipment by the workers daily.
 - h) Payment of contract workers should be done up to 07th of every month.
 - i) Contractors should provide payment slip to every workers.

JKR
21.8.23

Sushila
21.08.2023

Ranju Kumari
21/08/2023

S
21/8/23

| ANNUAL REPORT | | | | |
|---|---|--|-------------------------------|-------------------|
| 1ST JAN 2023 TO 31ST DEC 2023 | | | | |
| SCHEDULE-I | | | | |
| ANNEXURE-1 [SEE rules3(e),4(b),7(1),7(2),7(5),7(6) and 8(2)] Part-1 | | | | |
| BMW IN BGH FOR THE MONTH OF ...JAN 2023 TO DEC 2023... | | | | |
| Category | TYPE OF WASTE | TYPE OF BAG OR CONTAINER TO BE USED | TREATMENT AND DISPOSAL OPTION | QUANTITY KG/MONTH |
| 1 | 2 | 3 | 4 | 5 |
| | (a) Human Anatomical waste: human tissues, organs, body part and fetus below the viability period (as per the medical termination of pregnancy act 1971, amended from time to time). | yellow coloured non chlorinated plastic bags | Incineration | 1333KG |
| | (b) Animal Anatomical waste: Experimental animal carcasses, body parts, organs, tissues, including the waste generated from animals used in experiments or testing in veterinary hospital or colleges or animal houses. | | Incineration | NOT APPLICABLE |
| yellow | (c) Soiled waste: items contaminated with blood, body fluids like dressings, plaster casts, cotton swabs and bags containing residual or discarded blood and blood components. | | Incineration | 17505 KG |
| | (d) Expired or discarded medicines: Pharmaceutical waste like antibiotics, cytotoxic drugs including all items contaminated with cytotoxic drugs along with glass or plastic ampoules, vials etc. | Yellow coloured non-chlorinated plastic bags or containers | Incineration | 189 KG |
| | (e) Chemical waste: chemical used in production of biological and used or discarded disinfectants. | yellow coloured containers or non-chlorinated plastic bags | Disposed of by incineration | 1090 KG |

| ANNUAL REPORT | | | | |
|---|--|--|---|----------|
| 1ST JAN 2023 TO 31ST DEC 2023 | | | | |
| SCHEDULE-I | | | | |
| ANNEXURE-1 [SEE rules3(e),4(b),7(1),7(2),7(5),7(6) and 8(2)] Part-1 | | | | |
| BMW IN BGH FOR THE MONTH OF ...JAN 2023 TO DEC 2023... | | | | |
| | (f) Chemical liquid waste: Liquid waste generated due to use of chemical in production of biological and used or discarded disinfectants, silver x-ray developing liquid, discarded formalin, infected secretions, aspirated body fluids, liquid from laboratories and floor washings, cleaning, house-keeping and disinfecting activities etc. 36.00 | separate collection system leading to effluent treatment system | Treated in BGH Oxidation pond prior to disposal | 75960LTR |
| | (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 | 445 KG |
| | (h) Microbiology, biotechnology and other clinical laboratory waste: Blood bags, laboratory cultures, stocks or specimens of microorganisms, live or attenuated vaccines, human and animal cell cultures used in research, industrial laboratories, production of biological, residual toxins, dishes and devices used for cultures. | Autoclave safe plastic bags or containers | pre-treated to sterilize with non- chlorinated chemicals on site as per National AIDS control organisation or world health organisation guidelines thereafter for incineration. | 1068 KG |
| RED | Contaminated waste (Recyclable) (a) wastes generated from disposable item such as tubing, bottle, intravenous tubes and sets, catheters, urine bags, syringes(without needles and fixed needle syringes)and vaccutainers with their needles cut) and gloves. | Red coloured non-chlorinated plastic bags or containers. | Autoclaving or microwaving/ hydroclaving followed by shredding or mutilation or combination of sterilization and shredding. Treated waste to be sent for road making | 10216 KG |

ANNUAL REPORT

1ST JAN 2023 TO 31ST DEC 2023

SCHEDULE-I

ANNEXURE-1

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

BMW IN BGH FOR THE MONTH OF ...JAN 2023 TO DEC 2023...

| | | | | |
|--------------------|--|---|--|---------|
| White(translucent) | Waste sharp including metal: needles, syringes with fixed needles, needles from needle tip cutter or burner, scalpels, blades, or any other contaminated sharp object that may cause puncture and cuts. This includes both used, discarded and contaminated metal sharps | puncture proof, leak proof, tamper proof containers | Autoclaving or Dry heat sterilization followed by shredding or mutilation. | 118 KG |
| Blue | (a) Glassware: broken or discarded and contaminated glass including medicine vials and ampoules except those contaminated with cytotoxic wastes. | Cardboard boxes with blue colored marking | Disinfection (by soaking the washed glass waste after cleaning with detergent and sodium hypochlorite treatment or through autoclaving or microwaving or hydroclaving and then sent for recycling. | 6179 KG |
| | (b) Metallic Body Implants | cardboard boxes with blue colored marking | | 12 KG |