

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



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 : bsl.environment@sail.in

REF NO. इसीएस/इएमएस/29/2023- 273

DATE 28/06/2023

सेवा में,

सदस्य सचिव
झारखण्ड राज्य प्रदूषण नियंत्रण पर्वद
टी ए डिविजन बिल्डिंग
एच० ई० सी० कम्प्लेक्स
धुर्वा
रांची 834 004

विषय : वित्तीय वर्ष 2022-23 का बायोमेडिकल वेस्ट अनुपालन प्रतिवेदन ।

महाशय,

वित्तीय वर्ष 2022-23 का बोकारो जनरल अस्पताल के बायोमेडिकल वेस्ट अनुपालन प्रतिवेदन अवलोकनार्थ एवं उचित कारबाई हेतु संलग्न है।

सधन्यवाद ।

आपका विश्वासी
वास्ते सेल/बोकारो स्टील प्लान्ट

नवीन 28.6.23

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 , CMO
	(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		sailbgh@gmail.com
	(vii) URL of Website		
	(viii) GPS coordinates of HCF or CBMWTF		
	(ix) Ownership of HCF or CBMWTF		Dr. B B Karunamay , CMO, MEDICAL AND HS
	(x). Status of Authorisation under the Bio-Medical Waste (Management and Handling) Rules		Authorisation No.: JSPCB/HO/RNC/BMW-11226411/2021/46 20/12/2021 Valid 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)		
	(iii) License number and its date of expiry		
3.	Details of CBMWTF		Not applicable
	(i) Number healthcare facilities covered by CBMWTF		
	(ii) No of beds covered by CBMWTF		

	(iii) Installed treatment and disposal capacity of CBMWTF:		_____ Kg per day			
	(iv) Quantity of biomedical waste treated or disposed by CBMWTF		_____ 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 : _____ Capacity : _____ Provision of on-site storage : (cold storage or any other provision): _____			
	(ii) disposal facilities		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-I
			Plasma Pyrolysis	0		
			Autoclaves	01	3.39m3	
			Microwave	0		
			Hydroclave	0	2.20m3	
			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		
	(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	HWPit.
		Ash	
		ETP Sludge	
	(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, Copy of MoM Attached	
7.	Details trainings conducted on BMW		
	(i) Number of trainings conducted onBMW management.		
	(ii) number of personnel trained		
	(iii) number of personnel trained atthe time of induction		
	(iv) number of personnel not undergone any training so far		
	(v) whether standard manual for training is available?		
	(vi) any other information)		
8.	Details of the accident occurredduring the year	NIL	
	(i) Number of Accidents occurred		
	(ii) Number of the		

	persons affected	
	(iii) Remedial Action taken (Please attach details if any)	
	(iv) Any Fatality occurred, details.	
9.	Are you meeting the standards of airPollution from the Incinerator? Howmany times in last year could not metthe standards?	Yes, NIL
	Details of Continuous online emissionmonitoring systems installed	Installed
10.	Liquid waste generated and treatmentmethods in place. How many timesyou have not met the standards in ayear?	As per annexure-1, NIL
11.	Is the disinfection method or Sterilization meeting the log 4 standards? How many times you havenot met the standards in a year?	Yes
12.	Any other relevant information	(Air Pollution Control Devices attached with the Incinerator)

Certified that the above report is for the period from 01st APRIL 2022 TO 31st MARCH 2023 and all information given are correct to the best of my knowledge.

Name and Signature of the Head of the Institution: Dr. B B Karunamay , CMO (M&HS)

Date: 27.06.23

Place: B S City

डॉ० बी० बी० करुणामय
Dr. B. B. KARUNAMAY
मुख्य चिकित्सा पदाधिकारी
C. M. O.
बोकारो जेनरल अस्पताल
BOKARO GENERAL HOSPITAL
कोड-BBK

Status of Bio-Medical Waste Generated & Disposed During 01.04.2022-31.03.23
SCHEDULE I

[See rules 3 (e), 4(b), 7(1), 7(2), 7(5), 7 (6) and 8(2)]Part-1
 In BSL for Dec'2016 as per BMW Rules'2016

Category ^a	Type of Waste (2)	Type of Bag or Container to be used (3)	Treatment and Disposal options (4)	Quantity Kg/Month (5)
Yellow	(a) Human Anatomical Waste: Human tissues, organs, body parts 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	1340 kg
	(b) Animal Anatomical Waste : Experimental Animal carcasses, body parts, organs, tissues, including the waste generated from animals used in experiments or testing in veterinary hospitals or colleges or animal houses.	Yellow coloured non-chlorinated plastic bags	Incineration	NA
	(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.	Yellow coloured non-chlorinated plastic bags	Incineration	17,192 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	15 kg
	(e) Chemical Waste: Chemicals used in Production of biological and used or discarded disinfectants.	Yellow coloured containers or non-chlorinated plastic bags	Disposed of by incineration	1233 kg
	(f) Chemical Liquid Waste : Liquid waste Generated due to use of chemicals in production of biological and used or discarded disinfectants, Silver X-ray film developing liquid, discarded Formalin, infected secretions, aspirated body	Separate collection system leading to effluent treatment system	Treated in BGH Oxidation pond prior to disposal	1,60,000 Ltr.


DR. RAJENDRA KUMAR SHARMA
 ADDL. CHD (M & H)
 बीकानेर जेनरल
 बीकानेर
 BONGARO CODE: 141001

	fluids, liquid from laboratories and floor washings, cleaning, house-keeping and disinfecting activities etc.36.00		Non-chlorinated yellow plastic bags or suitable packing material	Non-chlorinated chemical disinfection followed by incineration	295 kg
	(g) Discarded linen, mattresses, beddings contaminated with blood or body fluid. (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 Organization or World Health Organization guidelines thereafter for Incineration	996 kg
Red	Contaminated Waste (Recyclable) (a) Wastes generated from disposable items such as tubing, bottles, intravenous tubes and sets, catheters, urine bags, syringes (without needles and fixed needle syringes) and vacuoners with their needles cut) and gloves.		Red coloured non-chlorinated plastic bags or containers	Autoclaving or micro-Waving/hydroplaning followed by shredding or mutilation or combination of sterilization and shredding. Treated waste to be sent for road making.	9823 kg
White (Translucent)	Waste sharps including Metals: 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.	115.50 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 Micro waving or hydroclaving and then recycling	3573 kg
	(b) Metallic Body Implants		Cardboard boxes with blue colored marking		12 kg


DR. ANIL KUMAR SHARMA
 ADDL. CMO (M & HS)
 BOKARO GENERAL HOSPITAL
 CODE: NKS-4

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

Date: 25.03.2023

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. Dr. S K Agarwal, Addl. CMO (M&HS) | - Chairman |
| B. Dr Veena Lakra, Dy. CMO (M&HS) | - Member |
| C. Dr. G Kr. Singh, Dy. CMO (M&HS) | - Member |
| D. Dr. Prabhat Dy. CMO (M&HS) | - Member |
| E. Md Saiffudujja Asst. Mgr. (M&HS) | - Member |

2. The committee reviewed the monthly performance of the Biomedical waste Management of the department (M&HS) outsourced vide work order no. 4565046059, dated 10-10-2022, work order no. 4565047321, dated 11-01-2023 and work order no. 4565048533, dated 29-05-2023 all three W. O. issued to M/S HSCL, Bokaro Steel City. The job was commenced from 01-09-2022 and shall continue till 30-11-2023.

3. Performance reports from each Work area were reviewed along with actions imposed for non performance/poor performance of defined jobs and endorsed the same.

4. To ensure adherence to guidelines for waste segregation, retraining of Nurses & Paramedical staff and contractual staff for cleaning and waste disposal was being continued on periodic basis. The Committee reviewed the record of the same and noted that all 40 contractual staff deployed for waste disposal and management of biomedical wastes were trained/retrained during the period.

5. The committee also perused the compliance to the Consent to Operate Waste Treatment & Disposal report and expressed admiration on the achievement of the National Ambient Air Quality Standard in all 12 parameters.

6. The Committee also observed that proposal for installation of ETP & STP in the BGH premises was initiated by the department on 03.03.2021. The current status is that technical evaluation has been completed and soon the RA will be done amongst eligible bidders.

7. The Committee also reviewed records and noted that there was no incidence of Mercury Spillage during the period 1st April, 2022 to 31st March, 2023


(DR. VEENA LAKRA)


(DR. G.K. SINGH)


(DR. PRABHAT)


(DR. S.K. AGARWAL)


(MD. SAIFFUDUJJA)

FORM - I

[(See rule 4(o), 5(i) and 15 (2))]

ACCIDENT REPORTING

1. Date and time of accident: **NIL REPORT**
2. Type of Accident :
3. Sequence of events leading to accident :
4. Has the Authority been informed immediately
5. The type of waste involved in accident :
6. Assessment of the effects of the accidents on human health and the environment:
7. Emergency measures taken :
8. Steps taken to alleviate the effects of accidents:
9. Steps taken to prevent the recurrence of such an accident :
10. Does your facility has an Emergency Control policy? If yes give details:

Date: 27.06.2023

Signature:


27/06/23

Place: Bokaro Steel City

Designation: Addl. CMO (MA)

डॉ० निपन कुमार शर्मा
Dr. NIPON KUMAR SHARMA
अस मुख्य चिकित्सा अधिकारी (वि० एवं स्ना० देखरेख)
ADDL. CMO (M & HS)
बोकारो जेनरल अस्पताल
BOKARO GENERAL HOSPITAL
CODE: NKS-4