

o/e



TSL/SPCB/BS-39/2024-01/405
January 19, 2024

The Member Secretary
State Pollution Control Board, Odisha
Parivesh Bhawan, A/118,
Nilakantha Nagar, Unit-VIII
Bhubaneswar -751 012

Subject: Submission of annual report under Bio-Medical Waste (Management and Handling) Rules, 2016

Reference: Authorization No. 3932/IND-IV-BW-2151, dated. 27.03.2020

Dear Sir,

With reference to aforesaid subject and cited reference, please find herewith enclosed Biomedical Waste Annual Report for the period from January 2023 to December 2023 under the Bio-Medical Waste (Management and Handling) Rules, 2016 with necessary relevant documents enclosed as Annexure-I.

Hope, the information furnished is in line with the requirement.

Thanking you,

Yours faithfully,

For Tata Steel Limited

Anoop Srivastava

Anoop Srivastava
Chief Environment - TSM

Enclosed: As above

Copy to: The Regional Officer, State Pollution Control Board, Odisha, Angul.

Received



TATA STEEL LIMITED

Narendrapur Kusunpanga Meramandali Dhenkanal 759 121 Odisha India Tel 91 6762 352000
Registered Office Bombay House 24 Homi Mody Street Fort Mumbai 400 001 India Tel 91 22 66658282 Fax 91 22 66657724
Corporate Identity Number L27100MH1907PLC000260 Website www.tatasteel.com

Form-IV
(See rule 13)
ANNUAL REPORT

(To be submitted to the prescribed 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))

Sl. no.	Particulars	
1.	Particulars of the Occupier	
	(i) Name of the authorized person (occupier or operator of facility)	: Sri Subodh Pandey (VP Operation, TSM)
	(ii) Name of HCF or CBMWTF	: Tata Steel Limited, Meramandali
	(iii) Address for Correspondence	: Tata Steel Limited Narendrapur, Kusupanga, Meramandali, Dhenkanal-759121
	(iv) Address of Facility	: Same as point No. iii.
	(v) Tel.No, fax. No.	: 91-6764-229800,229853
	(vi) E-mail ID	: anoop.srivastava@tatasteel.com
	(vii) URL of Website	: www.tatasteel.com
	(viii) GPS coordinates of HCF or CBMWTF	: 20° 48' 30.11" N 85° 15' 12.62" E
	(ix) Ownership of HCF or CBMWTF	: Private
	(x) Status of Authorization under the Bio-medical waste (Management and Handling Rules)	: Authorization no.3932/IND-IV-BM-2151 dated 27.03.2020, Valid up to 31.03.2025
	(xi) Status of Consents under Water Act and Air Act	: No.4463/IND-I-CON-5440 dated 23.03.2023 valid up to 31.03.2025
2.	Type of Health Care Facility	: Primary Health Care Facility
	(i) Bedded Hospital	: No. of beds:5 nos.
	(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	: DL-95 dated 16.11.2016 Valid up to 31.12.2031 (Factory License)
3.	Details of CBMWTF	: NA
	(i) Number healthcare facilities covered by CBMWTF	: NA
	(ii) No of beds covered by CBMWTF	: NA

	(iii) Installed treatment and disposal capacity of CBMWTF	:	NA																																															
	(iv) Quantity of biomedical waste treated or disposed by CBMWTF	:	NA																																															
4.	Quantity of waste generated or disposed in Kg per annum (on monthly average basis)	:	Yellow Category	:53.487 kg																																														
		:	Red Category	:257.124 kg																																														
		:	White Category	:32.505 kg																																														
		:	Blue Category	:2.503 kg																																														
5.	Details of the Storage,treatment,transportation,processing and disposal facility																																																	
	(i) Details of the on-site storage facility	:	Size : 5' dia,12' depth																																															
		:	Capacity : 6.6 m ³																																															
		:	Provision of on-site storage: NA																																															
	(ii)Disposal facility	:	<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>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>Plasma Pyrolysis</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>Autoclaves</td> <td>3</td> <td>Potable Steel autoclave</td> <td>-</td> </tr> <tr> <td>Microwave</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>Hydro-clave</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>Shredder</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>Needle tip cutter or destroyer Sharps</td> <td>4</td> <td>Manual</td> <td>-</td> </tr> <tr> <td>Encapsulation or concrete pit</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>Deep burial pits</td> <td>3</td> <td>2m dia,2m depth</td> <td>-</td> </tr> <tr> <td>ChemicalDisinfection</td> <td>01</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	-	-	-	Plasma Pyrolysis	-	-	-	Autoclaves	3	Potable Steel autoclave	-	Microwave	-	-	-	Hydro-clave	-	-	-	Shredder	-	-	-	Needle tip cutter or destroyer Sharps	4	Manual	-	Encapsulation or concrete pit	-	-	-	Deep burial pits	3	2m dia,2m depth	-	ChemicalDisinfection	01	-	-
Type of treatment equipment	No. of units	Capacity Kg/day	Quantity treated or disposed in kg per annum																																															
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Deep burial pits	3	2m dia,2m depth	-																																															
ChemicalDisinfection	01	-	-																																															

		Any other treatment equipment	-	-	-
	(iii) Quality of recyclable wastes sold to authorized recyclers after treatment in kg per annum	:	Nil		
	(iv) No of vehicle used for collection and transportation of biomedical waste	:	Nil		
	(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	-	-
			Ash	-	-
			ETP Sludge	-	-
	(vi) Name of the common Bio-medical waste Treatment facility Operator through which wastes are disposed of	:	M/s. Sani Clean Pvt. Ltd., Khurdha		
	(vii) List of member HCF not handed over bio-medical waste	:	NA		
6.	Do you have bio-medical waste management committee? Yes/No	:	Yes		
7.	Details training conducted on BWM				
	(i) Number of trainings conducted on BMW management.	:	Quarterly Once		
	(ii) Number of personnel trained	:	54		
	(iii) Number of personnel trained at the time of induction	:	100%		
	(iv) Number of personnel not undergone any training so far	:	All the paramedical staffs and health care workers undergone for BMW training.		
	(v) Whether standard manual for training is available?	:	Yes		
	(vi) Any other information	:	-		
8.	Details of the accident occurred during the year	:	NO		
	(i) Number of accidents occurred	:	Nil		
	(ii) Number of Persons affected	:	Nil		
	(iii) Remedial Action taken (Please attach details if any)	:	-		
	(iv) Any Fatality occurred, details	:	-		
9.	Are you meeting the standards of air pollution from the incinerator? How many time in last year could not met the standards. Details of	:	NA		

	continuous online emission monitoring system installed	
10.	Liquid waste generated and treatment methods in place. How many times you have not met the standards in a year?	: Yes (Liquid waste generated from testing lab is being disinfected by Sodium hypochlorite and discharge into soak pit)
11.	Is the disinfection method of sterilizer meeting the log 4 standards? How many times you have not met the standards in a year?	: Yes
12.	Any other relevant information	: -

Certified that the above report is for the period from January 2023 to December 2023.

Date :19.01.2023

Place : Meramandali

Dash
19.01.2024
on behalf of
Dr. Avinash


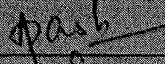




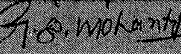

Name and Signature

Dr. AVINASH DASH
Sr. Registrar (MBBS,AFIH)
Reg. No-21678/2016
TATA STEEL MERAMANDALI

Minutes of the meeting:Date of the meeting: 09th June 2023**Meeting attended by:**

1. Discussions pertaining to the waste segregation was done, it was observed that there were particular gaps in the process of segregation. As, the BMW is generated in the phlebotomy area, the lab area & the OT area, particular emphasis must be given to the personnel handling the waste in the areas.
2. It was discussed that there is need for staff training & sensitisation of the staff regarding waste segregation.
3. It was also discussed that though there is provision for liquid waste management, the records for the same are not being maintained. So, it was decided that the facility for the same has to be created.
4. It was also decided the waste burial area need to be improved as per the BMW protocols.
5. A need for the health check-ups & vaccination of all the employees who are handling the BMW was planned to be done.
6. BMW segregation, Transportation and disposal is done & also record keeping is done.
7. BMW audit is done.

Members

SLNO	Members Name	Designation	Signature
1	Dr. Ashish Mahapatra	Consultant, Medical Services	
2	Mr. Rajesh Kumar Shah	Hospital Administrator	
3	Dr. Avinash Dash	Medical Officer / Sr. Rgst.	
4	Dr. Soumya Smruti Parida	Medical Officer	
5	Jashobanta Pany	BMW Operator	
6	Rajashree Behera	Staff Nurse	
7	Sujata Mohanty	Staff Nurse	
8	Nrushima Thara	EMD Sr. Manager	
9	Dr. Girja Shankar Mohanty	EMD Officer	

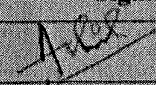

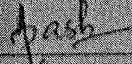





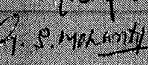
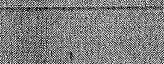
Minutes of the meeting:

Date of the meeting: 13th Dec 2023

Meeting attended by:

1. Discussions pertaining to the waste segregation was done, it was observed process of segregation. As, the BMW is generated in the phlebotomy area, the lab area & the OT area, particular continuous emphasis must be given to the personnel handling the waste in the areas.
2. As discussed in previous meeting regular training was given to all staffs (Nurses, Housekeeping staffs)
3. As lab has closed so no liquid waste created though we are giving training to staffs.
4. BMW waste storage are being done.
5. A need for the health check-ups & vaccination of all the employees who are handling the BMW was done.
6. BMW segregation, Transportation and disposal is done & also record keeping is done.
7. BMW audit is done.

Members

SLNO	Members Name	Designation	Signature
1	Dr. Ashish Mahapatra	Consultant, Medical Services	
2	Mr. Rajesh Kumar Shah	Hospital Administrator	
3	Dr. Avinash Dash	Medical Officer / Sr. Rgn.	
4	Dr. Soumya Smruti Parida	Medical Officer	
5	Dr. Vimal Kumar Ammasi	Medical Officer	
6	Jashobanta Pany	BMW Operator	
7	Rajashree Behera	Staff Nurse	
8	Sujata Mohanty	Staff Nurse	
9	Nrushima Thara	EMD Sr. Manager	
10	Dr. Girija Shankar Mohanty	EMD Officer	

BMW Training

14-7-23

TATA STEEL
We Also Make Tomorrow



ATTENDANCE SHEET

NAME OF THE PROGRAMME:

DATE: 14/7/23

VENUE:

SLNO	EMP CODE	NAME	DESIGNATION	DEPT	SIGNATURE
1)	AS0421104217	Dilakaa Kumar	supervisor	OHC	
2)	960599	Jyotsnandhu Sun	Br Lab Tech	OHC	
3)	960538	Gukulchand Singh	Apprentice	OHC	G.N. Panigrahi
4)	AB10114	AJOK KUMAR	EMT	OHC	
5)		Sujit Soodhi	LT	OHC	Sujit
6)	AW00051110	Sudhansu Behera	RT	OHC	SJS
7)	960780	Sushanta Jena	Sr Pharmacist	OHC	
8)	AW000310026	Abhishok Mahanty	EMT	OHC	
9)	AW02224871 51	Nalini Kantaputra	Staff Nurse	OHC	Nalini
10)	AW0421104219	Susanta Malik	Housekeeping	OHC	
11)	AW0005111087	Reema Tiwari	Staff Nurse	OHC	RT
12)	AW0005111087	Meeta Mahajan	Staff Nurse	OHC	Meeta
13)	AW0005111087	Subhashree Behera	Staff Nurse	OHC	
14)	961827	Sujata Mahanty	Staff Nurse	OHC	Sujata
15)	961897	Priyanka	ASST	OHC	Priyanka
16)	AW0005111000	Debasini Pradhan	Staff Nurse	OHC	D Pradhan

14-7-23

ATTENDANCE SHEET

NAME OF THE PROGRAMME		BMW Training			Trainer- Mr. Rajesh Shah	
DATE:	08.09.23	VENUE:	DHC			
SL NO	EMP CODE	NAME	DESIGNATION	DEPT	SIGNATURE	
1)	AS0421104317	Divakar Kumar	supervisor	OHC		
2)	AW0722548773	Somya Rajan Parikh	Deputy Operator	DHC		
3)	AW1021125673	Badr Prasad Ballarsingh	Audio metering Tech	OHC		
4)	AW0923867037	Saimita Behara	Primary	OHC		
5)	AS0922580386	Pragyankani Samantary.	off. Asst.	OHC	Pragya.	
6	960599	Jagabandhu	Dr Lab Tech	OHC		
7	AW0421104239	Ajay Naik	HK	OHC		
8	AW0421104239 4282	Sipu Crockhadal	HK	OHC		
9	AW005110091	Charan Kumar Sahu	Lab. Tech	OHC.		
10	960629	Manal Kulkarni	MEDICAL	OHC		
11	960687	Sisira Koo Bhoi	medical service	OHC	Sisira	
12	AW1123907984	Sachinranjan Sahu	staff Nurse	OHC		
13	960625 Rebecca	Rebati Mishra	Attendant	OHC	Rebati	
14	910064	Abhinav Bhutia	ASSIST	OHC		
15	961287	Avinash Kumar	DRIVER	OHC		

Annual data of BMW generation'2023 OHC, Tata Steel Limited, Meramandali, Dhenkanal-759121				
MONTH	Category			
	Yellow Category	Red Category	Blue Category	White Category
JANUARY	4.065	25.700	3.970	0.239
FEBRUARY	5.563	18.295	4.362	0.181
MARCH	3.577	13.026	2.025	0.156
APRIL	1.522	10.525	1.567	0.124
MAY	1.653	12.546	1.739	0.127
JUNE	1.797	26.542	2.410	0.151
JULY	12.490	45.470	3.127	0.355
AUGUST	9.850	32.270	4.105	0.35
SEPTEMBER	4.320	22.810	1.135	0.215
OCTOBER	3.000	16.390	2.500	0.250
NOVEMBER	4.500	21.300	3.000	0.2
DECEMBER	1.150	12.250	2.565	0.155
Total	53.487	257.124	32.505	2.503

Note: All Figures in KG