



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

MD/ENV/ 731 /129/2020  
Date: 29.06.2020

**Subject: Submission of annual report of Bio - medical wastes in the prescribed format (Form-IV), of TATA Steel Hospital, Joda for a period 1<sup>st</sup> January 2019 to 31<sup>st</sup> December 2019, as per Bio-medical Waste Management Rule 2016.**

**Ref.: Bio-medical Waste Authorization of Joda East Iron Mine, M/s Tata Steel Ltd., vide. Letter No. IND-IV\_BW-186/976/SPCB/Authorization (Biomedical Waste) dated: 24.01.2019 valid till 31.03.2024.**

Dear Sir,

Kindly find attach the Bio-medical waste in the prescribed format (Form-IV) of Tata Steel Hospital, Joda for a period 1<sup>st</sup> January 2019 to 31<sup>st</sup> December 2019, as per Bio-medical Waste Management Rule 2016 along with the required documents.

We trust the information furnished is in line with your requirement. Kindly acknowledge the same.

Thanking you,

Yours sincerely,

**F: Tata Steel Limited**

**Chief Medical Officer  
Chief Medical Officer  
TATA STEEL HOSPITAL, JODA**  
Encl.: As above

Copy to: The Regional Officer, State Pollution Control Board Odisha, At: Baniapata,  
College Road, Keonjhar - 758001, Odisha

**TATA STEEL LIMITED**

Mines Division Joda Keonjhar Odisha 758 034 India

Tel 91 7440037036

Registered Office Bombay House 24 Homi Mody Street Fort Mumbai 400 001

Tel 91 22 66658282 Fax 91 22 66657724

Corporate Identity Number L27100MH1907PLC000260 Website [www.tatasteel.com](http://www.tatasteel.com)



Form - I

[(See rule 4(O), 5 (i) & 15 (2)]

## ACCIDENT REPORTING

### NIL REPORT

1. Date and time of accident : NIL. Not any such
2. Type of Accident : NIL. Not any such
3. Sequences of events leading to accident : NIL. Not any such
4. Has the authority been informed immediately : NIL. Not any such
5. The type of waste involved in accident : NIL. Not any such
6. Assessment of the effects of the accident on human health and the environment : NIL. Not any such
7. Emergency measure taken : NIL. Not any such
8. Steps taken to alleviate the effects of accidents : NIL. Not any such
9. Steps taken to prevent the recurrence of such an accident : Various measure taken
10. Does your facility has an Emergency Control Policy? If yes give details :

The hospital doesn't have any separate Emergency Control Policy. However, various emergency measures such as fire detection devices, fire alarm, fire hydrants, fire extinguishers, separate storage of gas (LPG etc. used in cooking), day-night 24 hours ambulance service, all the wards / rooms are regularly being monitored by Sister In-charge and Medical Officer. The Hospital always has a well-qualified Medical Officer for 24 hours to address any eventuality. Apart from above the hospital is certified for ISO: 9001:2015, ISO: 14001:2015 & OHSAS: 18001:2007 integrated with other units.

Date: 29<sup>th</sup> June 2020

Place: Tata Steel Hospital, Joda

Signature:  Dr. Mahendra Kumar Tripathy

**Chief Medical Officer  
TATA STEEL HOSPITAL, JODA**

Designation: Chief Medical Officer

Note: As per Bio-medical waste Management Rule 2016, this report is been made.

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**Training schedule for employees of Tata Steel Hospital, Joda; Year 2019**  
**Topic : Bio-medical Waste Management Rule, 2016**

Name of Trainee	Group	Date	Time	Name of Facilitator
Belo Bodra	<b>GROUP 1</b>	13.7.19		
Rita Karua				
Tikifullo Khuntia				
Sri Sudhir Giri				
Sri T.K. Pradhan				
Subash Karua				
Ms.Asha Peter				
Babita Behera				
Puspa Horo				
Jhansi rani Mishra				
Tanushree Mohanty				
Sarita Horo				
S.V.Saroja				
Neha				
Jayshree Sahoo				
Sri Uttam Kr.Dash	<b>Group 2</b>	18.7.19		DR. B K PAL
Miss Bhargabi Nayak				
Sri Uttam Kr. Jena				
Sri Devendra Mohanta				
Laxmi Goud				
Roshini				
Soumya Behera				
Sanjukta Patra				
Sudipta				
Reshma Majhi				
Sri A K Giri				
Sri Sanjeev Prasad				
Sri Guru Barik				
Sri Santosh Sunani				
Sibani				
Swapna	<b>Group 3</b>	26.05.2019		REKHA GOGOI CHETIA
Sabita Sahoo				
Bilasini Nayak				
Madhusmita Biswal				
Grace Tigga				
Yoshoda Das				
Saroj Dang				
Arunima Patra				
Kamala Boipai				
Bina Hembram				
Sri Bijay Karua				
Bhimsen Patra				
Akilandewswari				
Sushanta				

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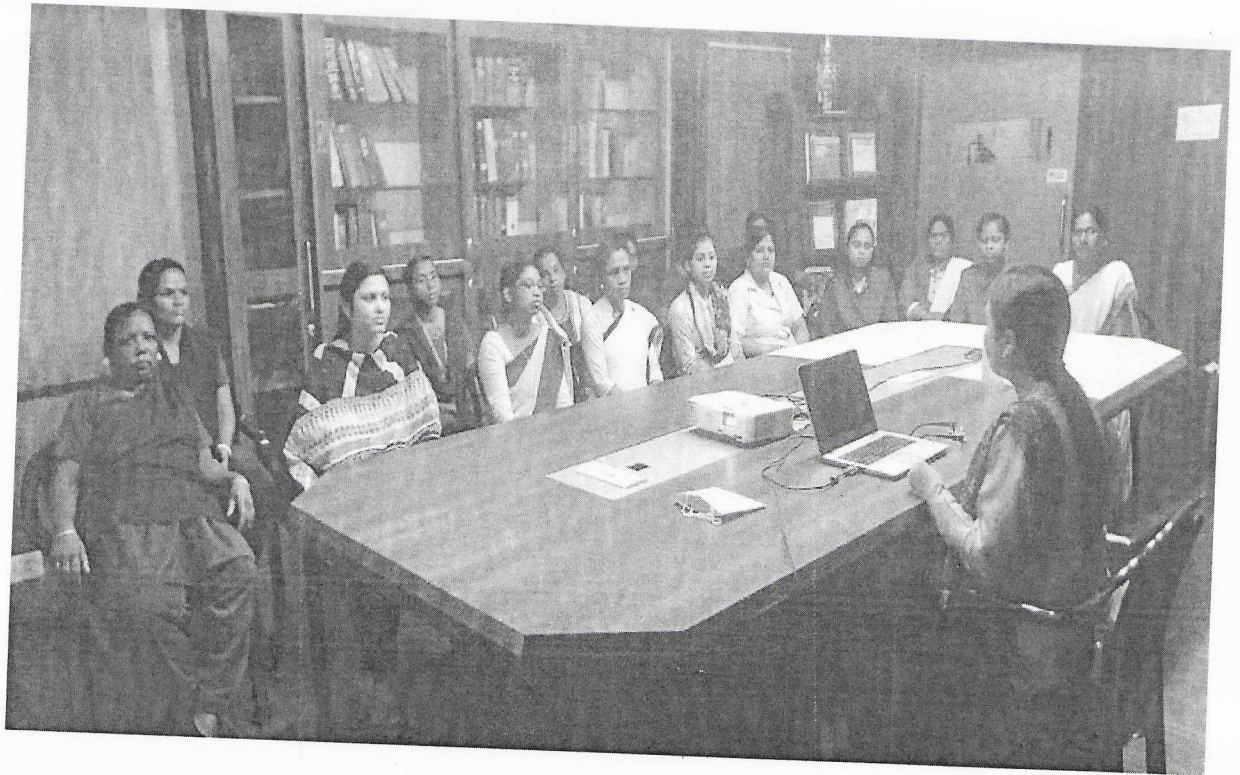




**Bio-Medical Waste Management (Storage & Disposal)**

**Training for Health Care Workers and Others**

**Tata Steel Hospital Joda**



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Inj Hepatitis B and Inj Tetanus Toxoid

Bio Medical Waste Handlers



Hospital, Joda  
2019.

		Inj Hepatitis B	Inj. T. Toxoid	Signature
1	Jagannath	10.10.19	10.10.19	for Tuko
2	Dhaneswar	"	"	Dhaneswar
3	Sujit	"	"	Sujeet
4	Sambhunath	✓	✓	Sambhu
5	Malti	✓	✓	ମାଲ୍ଟି
6	Sanjukta	✓	✓	Sanjukta
7	Baby	✓	✓	
8	Manila	✓	✓	ମନିଲା
9	Sabitri	✓	✓	
10	Sukanti	✓	✓	
11	Damayanti	✓	✓	Sucanti
12	Santi	✓	✓	Damayanti
13	Jasoda	✓	✓	ଜସୋଡା
14	Rakhi	✓	✓	6/10/19
15	Sanjukta	✓	✓	Rakhi Karan
16	Sanjosh	✓	✓	Sanjukta
17	Sanjosh	✓	✓	ସଞ୍ଜୋଶ
18	Madhu	✓	✓	sanjosh
19	Deepak	✓	✓	ଦୀପକ
20	Sona	✓	✓	Deepak Karan
21	Jay	✓	✓	SONA
22	Sambhari	✓	✓	Jai
23	Padma	✓	✓	Sambhari
24	Selechana	✓	✓	ସିଲେଚନା
25	Reena	✓	✓	ରିନା
26	Tapan	✓	✓	ଟାପନ
27	Biju	✓	✓	Tapan Karan
28	Jagadish	✓	✓	Biju Jagadish

Relita Biswal

Matron

TATA STEEL HOSPITAL JODA

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**YEARLY REPORT OF BIO-MEDICAL WASTE  
TATA STEEL HOSPITAL, JODA  
JANUARY 2019 - DECEMBER 2019**

MONTH	YELLOW (KG)	WHITE (KG)	BLUE (KG)	RED (KG)	GENERAL WASTE (KG)	INCINERATED ASH (KG)	SHERDEDDED PLASTIC (KG)	LIQUID CHEM. WASTE (LITRE)
Jan 19	61.080	3.246	1.628	28.111	149.60	3.050	56	39890
Feb 19	56.615	2.697	1.392	24.506	137.20	2.170	71	37880
Mar 19	61.545	3.684	1.582	27.000	157.70	3.570	83	40010
Apr 19	57.512	3.370	1.690	26.848	146.90	3.150	81	38890
May 19	58.152	3.621	1.626	26.692	156.70	3.270	72	39900
Jun 19	55.405	3.537	1.522	27.194	151.90	2.780	73	38400
Jul 19	54.550	3.552	1.865	26.882	158.80	2.680	81	40100
Aug 19	61.753	3.359	1.733	25.302	156.40	3.100	76	38300
Sep 19	58.331	3.457	1.723	25.978	152.90	2.800	82	37800
Oct 19	63.486	3.828	1.878	25.656	157.30	3.100	82	39100
Nov 19	55.391	3.154	1.401	26.236	155.70	2.900	78	37800
Dec 19	54.620	3.150	1.350	25.766	165.50	3.100	76	39200
<b>Total</b>	<b>698.44</b>	<b>40.65</b>	<b>19.37</b>	<b>316.17</b>	<b>1846.6</b>	<b>35.67</b>	<b>911</b>	<b>459800</b>

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	so far	
	(v) Whether standard manual for training is available?	Yes
	(vi) any other information)	No
8.	Details of the accident occurred during the year	
	(i) Number of Accidents occurred	Nil
	(ii) Number of the persons affected	Nil
	(iii) Remedial Action taken (Please attach details if any)	Nil
	(iv) Any Fatality occurred, details.	Nil
9.	Are you meeting the standards of air Pollution from the incinerator? How many times in last year could not met the standards?	Yes. All the times
	Details of Continuous online emission monitoring systems installed	NA, however the stack monitoring of incinerator is being done by external party.
10.	Liquid waste generated and treatment methods in place. How many times you have not met the standards in a year?	<ol style="list-style-type: none"> <li>1. Yes, all liquid waste generated being pre-treated and neutralized for 1-2% sodium hypochlorite dosing. All the liquid waste after pre-treatment is been treated in effluent treatment plant.</li> <li>2. Integrated Effluent Treatment Plant of 10 KLD is installed and regularly been operated.</li> <li>3. All the waste water from hospital is been collected and connected to 10 KLD Sewage Treatment Plant in the area.</li> <li>4. The required standard is met always.</li> <li>5. All the monitoring results are attached herewith.</li> </ol>
11.	Is the disinfection method or sterilization meeting the log 4 standards? How many times you have not met the standards in a year?	All the times.
12.	Any other relevant information	: (Air Pollution Control Devices attached with the Incinerator).  The double chambered incinerator is installed as per standard.

Certified that the above report is for the period of **one year from January 2019 to December 2019.**

Date: 29<sup>th</sup> June 2020

Signature:  Dr Mahendra Kumar Tripathy

**Chief Medical Officer**  
**TATA STEEL HOSPITAL, JODA**

Designation: Chief Medical Officer

Place: Tata Steel Hospital, Hoda

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		General Solid waste : 18.46 Tonne																																																	
5.	Details of the Storage, treatment, transportation, processing and Disposal Facility																																																		
	(i) Details of the on-site storage facility																																																		
		: Size : Length: 20 f, Height: 9 f																																																	
		: Capacity : 900 ft <sup>3</sup>																																																	
		: Provision of on-site storage : (cold storage or any other provision) <b>Not Available</b>																																																	
		(ii) Details of the treatment or 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>1</td> <td>10 kg/hour</td> <td>698.44 239 kg</td> </tr> <tr> <td>Plasma Pyrolysis</td> <td>NIL</td> <td>NIL</td> <td>NA</td> </tr> <tr> <td>Autoclaves</td> <td>1</td> <td>25</td> <td>316.17 kg</td> </tr> <tr> <td>Microwave</td> <td>NIL</td> <td>NIL</td> <td>NIL</td> </tr> <tr> <td>Hydroclave</td> <td>NIL</td> <td>NIL</td> <td>NIL</td> </tr> <tr> <td>Shredder</td> <td>1</td> <td>10</td> <td>911 kg</td> </tr> <tr> <td>Needle tip cutter or destroyer</td> <td>6 Cutter</td> <td></td> <td>40.65 kg</td> </tr> <tr> <td>Sharp encapsulation or concrete pit</td> <td>1</td> <td>NIL</td> <td>60.04 kg</td> </tr> <tr> <td>Deep burial pits:</td> <td>1</td> <td></td> <td>0</td> </tr> <tr> <td>Chemical disinfection:</td> <td>1% Na<sub>2</sub>Cl</td> <td>10 KG Bucket</td> <td>For internal use only</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	1	10 kg/hour	698.44 239 kg	Plasma Pyrolysis	NIL	NIL	NA	Autoclaves	1	25	316.17 kg	Microwave	NIL	NIL	NIL	Hydroclave	NIL	NIL	NIL	Shredder	1	10	911 kg	Needle tip cutter or destroyer	6 Cutter		40.65 kg	Sharp encapsulation or concrete pit	1	NIL	60.04 kg	Deep burial pits:	1		0	Chemical disinfection:	1% Na <sub>2</sub> Cl	10 KG Bucket	For internal use only	Any other treatment equipment			
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(iii) Quantity of recyclable wastes sold to authorize recyclers after treatment in kg per annum.		Red Category (like plastic, glass etc.) <b>Nil</b>																																																	
(iv) No of vehicles used for collection and transportation of biomedical waste.		Not applicable because entire waste is being treated & incinerated in the hospital only.																																																	
(v) Details of incineration ash and ETP sludge generated and disposed during the treatment of wastes in Kg per annum		<table border="1"> <thead> <tr> <th></th> <th>Quantity generated</th> <th>Where disposed</th> </tr> </thead> <tbody> <tr> <td>Incineration Ash</td> <td>35.67 Kg</td> <td>Ass pit</td> </tr> <tr> <td>ETP Sludge*</td> <td colspan="2">459800 liter</td> </tr> </tbody> </table>			Quantity generated	Where disposed	Incineration Ash	35.67 Kg	Ass pit	ETP Sludge*	459800 liter																																								
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(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		No																																																
7.	Details trainings conducted on BMW																																																		
(i) Number of trainings conducted on BMW Management.		16																																																	
(ii) number of personnel trained		82																																																	
(iii) number of personnel trained at the time of induction		Not applicable because of no new entry																																																	
(iv) number of personnel not undergone any training		12																																																	

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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)]

Sl. No.	Particulars	
1.	Particulars of the Occupier	
	(i) Name of the authorized person (occupier or operator of facility)	Dr Mahendra Kumar Tripathy
	(ii) Name of HCF or CBMWTF	Tata steel Hospital, Joda West
	(iii) Address for Correspondence	P.O.: - Joda
	(iv) Address of Facility	District: Keonjhar
	(v) Tel. No, Fax. No	Pin – 758034, Odisha
	(vi) E-mail ID	Phone: 9031055738
	(vii) URL of Website	<a href="mailto:mahendra.tripathy@tatasteel.com">mahendra.tripathy@tatasteel.com</a>
	(viii) GPS coordinates of HCF or CBMWTF	<a href="http://www.tatasteelindia.com/">http://www.tatasteelindia.com/</a>
	(ix) Ownership of HCF or CBMWTF	Lat - 22°06'47.5"N, Lon - 84°29'22.1"E
	(x). Status of Authorization under the Bio-Medical Waste (Management and Handling) Rules	PRIVATE
	(xi). Status of Consents under Water Act and Air Act	Authorization No.: IND-IV-BW-186/976/SPCB/ Authorization (Biomedical Waste) dated 24 <sup>th</sup> January 2019 valid till 31.03.2022. Consent to Operate (CTO) No.: 413/WPC/APC dated 22.12.2017 valid till 31.03.2022.
	Type of Health Care Facility	
2.	(i) Bedded Hospital	No. of Beds : <b>75 (Seventy five)</b>
	(ii) Non-bedded hospital	The hospital is integrated with ICU, Blood Bank, Pathological Lab, X-ray Room, Ultra Sonography facility etc.
	(Clinic or Blood Bank or Clinical Laboratory or Research Institute or Veterinary Hospital or any other)	
	(iii) License number and its date of expiry	IND-IV-BW-186/976/SPCB/Authorization (Biomedical Waste) dated: 24.01.2019 valid till 31.03.2022.
3.	Details of CBMWTF	
	(i) Number healthcare facilities covered by CBMWTF	Not applicable
	(ii) No of beds covered by CBMWTF	Not applicable
	(iii) Installed treatment and disposal capacity of CBMWTF:	Not applicable
	(iv) Quantity of biomedical waste treated or disposed by CBMWTF	Captive facilities
4.	Quantity of waste generated or disposed in Kg per annum (on monthly average basis)	Yellow Category : 698.44 KG Red Category : 316.17 KG White : 40.65 KG Blue Category : 19.39 KG

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