



**The Member Secretary,
State Pollution Control Board,
Paribesh Bhawan,
A/118, Nilakantha Nagar,
Bhubaneswar – 751 012
Odisha**

MD/ENV/ 139 / 129/18
June 27, 2018

Subject: Submission of annual report of Bio – medical wastes in prescribed format (Form IV) of Tata Steel Hospital, Joda for a period 1st January 2017 to 31st December 2017, as per Bio Medical Waste Management Rule 2016.

Dear Sir,

Kindly find attached the Bio – Medical wastes in prescribed format (Form IV) of Tata Steel Hospital, Joda for a period 1st January 2017 to 31st December 2017, 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,

Head (Planning), OMQ
Encl.: As above.

c.c.: Regional officer,
State Pollution Control Board,
Baniapata, College Road
Keonjhar – 758 001, ODISHA

TATA STEEL LIMITED

Mines Division Noamundi 833 217 India
Tel 91 9234301340 Fax 91 6596 290737

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 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 authorised person (occupier or operator of facility)	: Dr. Ashok Kumar Ray																																																
	(ii) Name of HCF or CBWTF	: Tata Steel Hospital, Joda																																																
	(iii) Address for Correspondence	: Tata Steel Hospital, Joda west P.O.-Joda, Keonjhar-758034, Odisha.																																																
	(iv) Address of Facility	: Tata Steel Hospital, Joda west P.O.-Joda, Keonjhar-758034, Odisha.																																																
	(v) Tel. No, Fax. No.:	: 9040068251																																																
	(vi) E-mail ID :	: priyanka.upadhyav@tatasteel.com																																																
	(vii) URL of Website	: http://www.tatasteelindia.com/																																																
	(viii) GPS coordinates of HCF or CBWTF	: 22°06'47.5"N & 84°29'22.1"E																																																
	(ix) Ownership of HCF or CBWTF	: Private																																																
	(x). Status of Authorisation under the Bio-Medical Waste (Management and Handling) Rules	: Authorisation No. IND-IV-BW-186, Valid upto: 31.03.2019																																																
(xi). Status of Consents under Water Act and Air Act	: Consent to operate received vide letter no:413/WPC/APC dated 22.12.2017																																																	
2	Type of Health Care Facility																																																	
	(i) Bedded Hospital	: 75																																																
	(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	: IND-IV-BW-186/SPBC/Authorization(bio-medical waste) Exp-31.03.2019																																																	
3	Details of CBWTF																																																	
	(i) Number healthcare facilities covered by CBWTF	: NA																																																
	(ii) No of beds covered by CBWTF	: NA																																																
	(iii) Installed treatment and disposal capacity of CBWTF	: NA																																																
(iv) Quantity of biomedical waste treated or disposed by CBWTF	: NA																																																	
4	Quantity of waste generated or disposed in Kg per annum (on monthly average basis)																																																	
		: Yellow Category : 573.5 Kg																																																
		: Red Category : 247.8 Kg																																																
		: White : 72.9 Kg																																																
		: Blue Category : 17.5Kg General Solid waste : 17.37Tonn																																																
5	Details of the Storage, treatment, transportation, processing and Disposal Facility																																																	
	(i) Details of the on-site storage facility	: Length: 20 f, Width: 22 f, Height: 9 f Capacity : 900 ft3 Provision of on-site storage (cold storage or any other provision) : Does not Required																																																
	(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/ Annum</th> </tr> </thead> <tbody> <tr> <td>Incinerators</td> <td>1</td> <td>10kg/hour</td> <td>539.5kg</td> </tr> <tr> <td>Plasma Pyrolysis</td> <td>0</td> <td>0</td> <td>NA</td> </tr> <tr> <td>Autoclaves</td> <td>1</td> <td>1kg/day</td> <td>672 kg</td> </tr> <tr> <td>Microwave</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Hydroclave</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Shredder</td> <td>1</td> <td>1/hour</td> <td>680.1kg</td> </tr> <tr> <td>Needle tip cutter or destroyer</td> <td>6</td> <td></td> <td>72.9 kg</td> </tr> <tr> <td>Sharps Encapsulation or concrete pit</td> <td>1</td> <td>0</td> <td>90.4 kg</td> </tr> <tr> <td>Deep burial pits</td> <td>1</td> <td>As per standard</td> <td>34kg</td> </tr> <tr> <td>Chemical disinfection</td> <td>1% Na2Cl</td> <td>12 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/ Annum	Incinerators	1	10kg/hour	539.5kg	Plasma Pyrolysis	0	0	NA	Autoclaves	1	1kg/day	672 kg	Microwave	0	0	0	Hydroclave	0	0	0	Shredder	1	1/hour	680.1kg	Needle tip cutter or destroyer	6		72.9 kg	Sharps Encapsulation or concrete pit	1	0	90.4 kg	Deep burial pits	1	As per standard	34kg	Chemical disinfection	1% Na2Cl	12 kg Bucket	For internal use only	Any other treatment equipment			
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(iii) Quantity of recyclable wastes sold to authorized recyclers after treatment in kg per annum	: Nil																																																	
(iv) No of vehicles used for collection and transportation of biomedical waste	: Not Applicable because all the waste is being treated inside 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>29.4 kg</td> <td>Ash pit</td> </tr> <tr> <td>ETP Sludge</td> <td>393200 lit/yr</td> <td></td> </tr> </tbody> </table>		Quantity Generated	Where disposed	Incineration Ash	29.4 kg	Ash pit	ETP Sludge	393200 lit/yr																																									
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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	: 12
	(ii) number of personnel trained	: 80
	(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 so far	: 17
	(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	: 0
	(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?	: YES
	How many times in last year could not met the standards?	: 0
	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?	: 0
11	Is the disinfection method or sterilization meeting the log 4 standards?	: Yes
	How many times you have not met the standards in a year?	: 0
12	Any other relevant information	: Air Pollution Control Devices attached with the Incinerator

Certified that the above report is for the period from 01.01.2017 - 31.12.2017.

Date : 27.06.2018
Place : Joda


Signature

2017 / Month of October 2017.

Sl. No.	Duj. Hep. B	Duj. T. tavid	Name
1.	14. 10. 17	20. 10. 17.	Jagannath
2.	✓	✓	Dhaneswar
3.	✓	✓	Sujeet
4.	✓	✓	Deepak
5.	✓	✓	Kartik
6.	✓	✓	Abhimanyu
7.	✓	✓	Kashinath
8.	✓	✓	Sambhunath
9.	✓	✓	Malti
10.	✓	✓	Sanjulita
11.	✓	✓	Baby
12.	✓	✓	Yashodh
13.	✓	✓	Urmila
14.	✓	✓	Sabitri
15.	✓	✓	Sukanti
16.	✓	✓	Damyanti
17.	✓	✓	Arti
18.	✓	✓	Prigu
19.	✓	✓	Somya
20.	✓	✓	Sarita

Relihalozh Chetis
 MATRON
 TATA STEEL HOSPITAL JINDA

Duj Tetanus/Hepatitis B. /2016 for Handlers
 Toxoid

TS4J. August 2016.

	Duj. Hepatitis B	Duj. T. Toxoid	Sign
1. Malvi	10.8.16	26.8.16	मालवी
2. Sanjivita	✓	✓	संजीविका
3. Baby	✓	✓	
4. Yashoda	✓	✓	याशोदा
5. Urnila	✓	✓	उरनीला
6. Sabiti	✓	✓	साबिता
7. Sabita	✓	✓	साबिता
8. Sangeeta	✓	✓	
9. Sulekanti	✓	✓	सुलेकान्ति
10. Padma	✓	✓	पद्मा
11. Shanti	✓	✓	शान्ति
12. Damayanti	✓	✓	दामयान्ति
13. Jagannath	✓	✓	Jagannath
14. Dhaneswar	✓	✓	Dhaneswar
15. Sona	✓	✓	
16. Sujat	✓	✓	Sujat
17. Deepak	✓	✓	
18. Kashimath	✓	✓	काशिमथ
19. Abhimangyn	✓	✓	
20. Samsdu	✓	✓	
21. Bijn	✓	✓	Bijn
22. Tukun .	✓	✓	Tukunish

Rekha Gopin Chetis

Matron
 PATA STEEL HOSPITAL JODA

Bio-medical Waste Management (Storage & Disposal) Training for all Health Care Workers & Others

TATA Steel Hospital, Joda



TATA STEEL HOSPITAL, JODA

Training details on Bio medical waste management rule 2016

Sr. No.	Nursing staff	TRAINING	paramedicals/Technician	TRAINING DONE ON	Supervisors	TRAINING	Handlers/cleaners	TRAINING	
1	Manisha Dey		Sanjeev Prasad				Malati Karua		
2	Priyanka Mishra		Tusharkanti Pradhan				Sanjukta Karua		
3	Sandhyarani Ganguly		Sudhir Giri				Baby		
4	M J Bara		Arun Giri				Yashoda Karua		
5	S V Saroja		Uttam Das				Urmila		
6	Sabita Sahoo		Uttam Jena				Sabirri		
7	Sarita Horro		Devanand Mohanta				Sabita		
8	Madhusmita Biswal		Ram Tiwari				Sangita		
9	Tanushree Pattanaik	SCHEDULE 1 TO 6	Himanshu Hembaram	SCHEDULE 1 TO 6	Tuku and Biju	SCHEDULE 1 TO 6	Sukanti	SCHEDULE 1, 3,4,5,6	
10	Jhansirani Mishra		Kishan Shekhar				Padma		
11	Arunita Patra		Rupali Sahoo				Shanti		
12	Bilashi Nayak		Lalalendu				Damayanti		
13	Yashoda Das		Rabindra Barik				Dhania		
14	Babita Behera		Malati Del				Sona		
15	Grace Tigga		Anand Kumar				Sujit		
16	Saroj Dang						Deepak		
17	Laxmi Goud						Kashinath		
18	Pushpa Horro						Abhimanyu		
19							Sambhu		
20							Kartik		
Schedules-1				Schedule -2			Schedule-3		
Introduction to Bio-Medical waste management Rule 2016				Definitions & Duty of Occupier			Segregation packing, transportation and Storage		

Schedule -4

Colour Coding

Schedule-5

Standard for treatment and disposal

Schedule-6

Safe working and use of PPE



Ref.: ENVLAB/L8/R-2406

Date: 1/06/2018

ANALYSIS REPORT OF FLUE GAS

1. Name of Industry : Joda East Iron Mines (M/s TATA Steel Limited)

		Date of Sampling	15.05.2018 at 3.15pm	
A	General Information about Stack			
1	Stack Connected to	-	-	-
2	Emission due to	:	Incinerator	
3	Material of Construction of stack	:	Burning of H.S. Diesel	
4	Shape of stack	:	MS	
5	Whether stack is provided with permanent platform & ladder	:	Circular	
6	Generation capacity	:	Yes	
		:	N.A.	
B	Physical Characteristics of Stack:			
1	Height of the stack from ground level	-	-	-
2	Diameter of the stack at sampling point	:	30m (approx)	
3	Height of the sampling point from GL	:	0.254m	
4	Area of Stack	:	7.5m (approx)	
		:	0.0506 m ²	
C	Analysis / Characteristic of Stack:			
1	Fuel Used	-	-	-
2	Fuel consumption	:	N.A.	
		:	N.A.	
D	Results of Sampling & Analysis of Gaseous Emission			
			Analysis Results	CPCB Limit
1	Temperature of emission (°C)	-	45.0	
2	Barometric pressure (mm of Hg)	:	714	
3	Velocity of gas (m/sec.)	:	4.98	
4	Quantity of gas flow (Nm ³ /hr.)	:	1115.	
5	Concentration of Carbon monoxide (%)	:	0.94	
6	Concentration of Sulphur dioxide (mg/Nm ³)	:	1.8	
7	Concentration of Nitrogen dioxide (mg/Nm ³)	:	20.8	400
8	Concentration of particulate Matters (mg/Nm ³)	:	26.8	50
E	Pollution control Device			
	Details of pollution control			
	Device attached with the stack	:	Nil	
F	Remarks			



For Visiontek Consultancy Services Pvt. Ltd.