

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

MD/ENV/ 257 /129/2019

Date: 25.06.2019

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 2018 to 31<sup>st</sup> December 2018, as per Bio-medical Waste Management Rule 2016.

Ref.: Bio-medical Waste Authorization of Joda East Iron Mine, 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  $\mathbf{1}^{\text{st}}$  January 2018 to  $3\mathbf{1}^{\text{st}}$  December 2018, as per Biomedical 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

Copy to: The Regional Officer.

State Pollution Control Board, At: Baniapata, College Road

Keonjhar - 758001, Odisha

#### 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)]

NO.	Particulars	7027000								
	Particulars of the Occupier									
	(i) Name of the authorised person	T:	Dr. Ashok Kumar Ray							
	(occupier or operator of facility)	1								
	(ii) Name of HCF or CBMWTF	+.	Tata Steel Hospital,Jod	a (UCE)						
	(iii) Address for Correspondence		: Tata Steel Hospital, Joda west							
	(iii) Address for correspondence	1.								
	(C.) Add (F9)	+	P.OJoda , Keonjhar-75		a.					
,	(iv) Address of Facility	1:	Tata Steel Hospital, Joo							
			P.OJoda, Keonjhar-75	8034, Odish	a.					
	(v)Tel. No, Fax. No:	T:	9040068251							
	(vi) E-mail ID:	:	priyanka.upadhyay@tatas	teel.com						
	(vii) URL of Website		http://www.tatasteelindia							
	(viii) GPS coordinates of HCF or CBMWTF	:	22°06'47.5"N & 84°29	'22.1"E						
	(ix) Ownership of HCF or CBMWTF	1:	: Private							
	(x). Status of Authorisation under the Bio-Medical Waste (Management	1:	: No. 976/SPCB/Authorisation(Biomedical Waste) Date <u>24.01.2019</u> /IND-IV-BW-186, Valid upto: 31.03.2022							
	and Handling) Rules									
	(xi). Status of Consents under Water Act and Air Act	+.	Consent to operate rec		ttorno.412/WDC/	ADC dated 22 12 20				
	Type of Health Care Facility	1 :	Toolische to operate rec	cived vide ie	tter no.413/ WFt/	Art uateu 22.12.20				
	(i) Bedded Hospital	Τ.	75							
	(ii) Non-bedded hospital		NA							
	(Clinic or Blood Bank or Clinical Laboratory or Research Institute or	1.	lun.							
	Veterinary Hospital or any other)									
	· · · · · · · · · · · · · · · · · · ·	1								
	(iii) License number and its date of expiry	:	No. 976/SPCB/Author	isation(Biom	edical Waste) Date	24.01.2019/IND-I				
			BW-186, Valid upto: 31	1.03.2022						
1	Details of CBMWTF									
	(i) Number healthcare facilities covered by CBMWTF		NA							
	(ii) No of beds covered by CBMWTF	:	NA		9.4					
	(iii) Installed treatment and disposal capacity of CBMWTF	1:	NA							
	(iv) Quantity of biomedical waste treated or disposed by CBMWTF									
	Quantity of waste generated or disposed in Kg per annum	:	Yellow Category: 648.	75 Kg						
	(on monthly average basis)		Red Category: 280.06Kg							
			White: 41.86 Kg							
			Blue Category: 17.15Kg							
		General Solid waste: 18.64Tonn								
5	Details of the Storage, treatment, transportation, processing and Disposal	Fa								
	(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 orany other provision): Does no							
			Required							
	(ii) Disposal facilities	:	Type of treatment	No. of	Capacity	Quantity treated				
			Equipment	Units	(Kg/day)	disposed/ Annu				
		1	Incinerators	1	10kg/hour	648.7kg				
			Plasma Pyrolysis	0	0	NA				
		1	Autoclaves	1	1kg/day	280kg				
			Microwave	0	0	0				
			Hydroclave	0	0	0				
			Shredder	1	10kg/hour	780 KG				
			Needle tip cutter or	6	G/ TT TT	41.86kg				
			destroyer			- 2.00.16				
			Sharps Encapsulation	1	0	58.9kg				
			or concrete pit	•	9	30.7Kg				
		1		-						
			Deep burial pits	1	As per standard	0				
			Chemical disinfection	10% NaOCl	12 kg Bucket	For internal use of				
			Any other treatment							
	(iii) Quantity of recyclable wastes sold to authorized recyclers after	-	equipment Nil	1						
		1:								

6 II	(v) Details of incineration ash and ETP sludge generated and disposed during the treatment of wastes in Kg per annum  (vi) Name of the Common Bio-Medical Waste Treatment Facility Operator through which wastes are disposed of	;	Incineration Ash	Quantity Generated	Where disposed				
6 I	during the treatment of wastes in Kg per annum  (vi) Name of the Common Bio-Medical Waste Treatment Facility Operator through which wastes are disposed of	:			TTAILLE GISDOSCG				
6 I	through which wastes are disposed of	-		38.54kg	Ash pit				
6 I	through which wastes are disposed of	:	ETP Sludge	3745					
6 I			NA						
n	(vii) List of member HCF not handed over bio-medical waste.	:	NA						
	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								
0	(i) Number of trainings conducted on BMW Management		16						
(i	(ii) number of personnel trained		82						
(i	(iii) number of personnel trained at the time of induction		Not applicable because o	f no new entry					
(i	(iv) number of personnel not undergone any training so far	:	12	a no new entry					
0	(v) whether standard manual for training is available?	-	Yes						
(	(vi) any other information	-	No						
8 D	Details of the accident occurred during the year								
(i	(i) Number of Accidents occurred	:	0						
[Ci	(ii) Number of the persons affected		NA						
Ci	(iii) Remedial Action taken (Please attach details if any)	:	NA						
	(iv) Any Fatality occurred, details.	:	NA						
9 A	Are you meeting the standards of Air Pollution from the incinerator?	:	YES						
12. H	How many times in last year could not met the standards?	:	0						
D	Details of Continuous online emission monitoring systems installed	:	NA,however the stack mo	onitoring of incenerator is b	eing done by external n				
ti	liquid waste generated and treatmentmethods in place How many imesyou have not met thestandards in a year?	:	0		only done by externar p				
11 Is	s the disinfection method or sterilization meeting the log 4 standards?	:	Yes						
Н	How many times you have not met the standards in a year?	:	0						
12 A	Any other relevant information			ices attached with the Incin	erator				

Date: 28

Chief Medical Officer
TATA STEEL HOSPITAL, JODA

## ANNUAL BIO-MEDICAL WASTE REPORT TATASTEEL HOSPITAL JODA FROM JANUARY 2018 TO DECEMBER 2018

MONTH	YELLOW	WHITE	BLUE	RED	GENERAL	INCINEARATED	SHEREDDED	LIQUID
	(KG)	(KG)	(KG)	(KG)	WASTE	ASH	PLASTIC	CHEM.
	,				(KG)	(KG)	(KG)	WASTE
						2 20		(LIT)
Jan 18	48.34	3.16	1.26	19.95	165.50	3.25	42.00	34.10
Feb 18	40.45	4.76	1.36	18.20	148.50	2.77	40.00	29.42
March 18	41.98	3.99	1.49	20.10	174.00	3.08	42.00	34.70
April 18	38.65	4.06	1.37	19.10	150.00	3.08	34.00	30.50
May 18	65.76	3.24	1.26	21.05	150.90	3.41	75.00	32.90
June 18	67.01	3.08	1.32	19.75	164.40	3.09	67.00	32.50
July 18	58.16	3.20	1.41	27.53	158.40	3.26	86.00	30.50
Aug 18	44.78	3.24	1.32	26.04	155.50	3.39	70.00	31.41
Sept 18	57.87	3.23	1.68	26.82	149.90	3.31	67.00	32.70
Oct 18	57.47	3.20	1.57	26.69	150.10	3.25	91.00	33.40
Nov 18	62.60	3.34	1.44	27.05	144.90	3.35	81.00	30.90
Dec 18	65.68	3.36	1.67	27.78	152.00	3.30	85.00	31.52
Total								
KG	648.75	41.86	17.15	280.06	1864.1	38.54	746	384.55

# Bio-Medical Waste Management (Storage and Disposal) Training for Health Care Workers and Others Tata Steel Hospital Joda





## Training schedule for contractual-employees of Tata Steel Hospital, Joda, Month of July 2018 Topic-Bio-medical waste management rule, 2016

Group 1	19.07.2018, 28.07.2018		
Group 1	19.07.2018, 28.07.2018		
Group 1	19.07.2018, 28.07.2018		
Group 1	19.07.2018, 28.07.2018		
Group 1	19.07.2018, 28.07.2018		
Group 1	19.07.2018, 28.07.2018		
Group 1	19.07.2018, 28.07.2018		
Group 1	19.07.2018, 28.07.2018		
Group 1	19.07.2018, 28.07.2		
Group 1	19.07.2018, 28.0		
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	Group 2	Group 2  13.07.2018 , 16.07.2018, 21. 07.2018, 27.07.2018	Group 2  13.07.2018 , 16.07.2018, 21. 07.2018, 27.07.2018  6-7 PM

## Training schedule for employees of Tata Steel Hospital, Joda; For the Month of July 2018 Topic-Bio-medical waste management rule, 2016

Name of Trainee	Group	Date	Time	Name of Facilitator
Belo Bodra				
Rita Karua				- A
Tikifullo Khuntia				
Sri Sudhir Giri				2
Sri T.K. Pradhan				
Subash Karua				
Ms.Asha Peter	_			
Babita Behera	GROUP 1	13.7.18	190	
Puspa Horo	Ž	13.7	1.8	
Jhansi rani Mishra	<u> </u>			
Tanushree Mohanty				
Sarita Horo				
S.V.Saroja				-
Niharika Behera				
Jayshree Sahoo				
Sri Uttam Kr.Dash			H	
Miss Bhargabi Nayak				
Sri Uttam Kr. Jena			82	
Sri Devendra Mohanta		-		
Laxmi Goud				
Basanti Karua				
Soumya Behera	Group 2	18		
Sanjukta Patra .		18.7.18	1	DR. B K PAL
Babita Giri		7		
Reshma Majhi				
Sri A K Giri			- 1	
Sri Sanjeev Prasad				
Sri Rabindra Barik .				
Sri Santosh Sunani				
Sri R. K. Mishra				
Priyanka Mishra				
Sabita Sahoo				
Bilasini Nayak				
Madhusmita Biswal				
Grace Tigga	m	118		
Yoshda Das	Group 3	26.07.2018		REKHA GOGOI CHETIA
Saroj Dang	2	5.07		
Ranjubala Mohanty		75		
Kamala Boipai Bina Hembram	•			
Sri Bijay Karua				
Bhimsen Patra				7
Akilandewswari				
Manisha Tamang				

Dy Hepotitis B & T. Toxoid for 2018.

		0 1 11 0	0 1 - =	0: 1 0 1	
%. no	Name	Jang. Hep. B	Juj. T. Toxoid	Sign/Themb imp	
1	Jagannath Karua	13, 11,2018	23. 11. 2018	Jaganneth baraca	
2.	Tapan Karua	V		Epan Karrica	
3.	Dhaneswar		~	Shanegwan Kanna	
4.	Sryeet		~	Saject	
ς.	Deepak		V	peopal	
6.	Abhimanyn	V	/		
7.	Kachi nath		V	पानित्राधु	
8.	Samblu nath	~	V	8925	
9.	Malti Karua	V	V	र्रो किहें देशकेंद्र	
10	Sanjuleta	· V	V	Sangulita	
11 -		~		Managaran Company Comp	
12.	Baby Yashoda	~		for Tuke	
13-	Urmila	~	V	B 2001116	
14.	Sabition	~	V	25.00	
15.	Sulcanti	~		Sispate	
16.	Damayanti		V	Demojount!	
17.	Priju	~	~		
18.	Jagdish	V	~	Diju Tugadish	
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	787	A STEEL HOSPITAL			
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## Visiontek Consultancy Services Pvt. Ltd.

(An Enviro Engineering Consulting Cell)



ISO 14001: 2004 OHSAS 18001: 2007

Ref.: Env Lab/18/R-410

Date: 03.03.2018

#### ANALYSIS REPORT OF FLUE GAS

1. Name of Industry

Joda East Iron Mines (M/s TATA Steel Limited)

	Date of Sampling	:	16.02.2018 at 3.15pm
Α	General Information about Stack	-	-
1	Stack Connected to	:	Incinerator
2	Emission due to	:	Burning of H.S. Diesel
3	Material of Construction of stack	:	MS
4	Shape of stack	:	Circular
5	Whether stack is provided with permanent platform & ladder	:	Yes
6	Generation capacity	:	N.A.
В	Physical Characteristics of Stack:	-	-
1	Height of the stack from ground level	:	30m (approx)
2	Diameter of the stack at sampling point	1:	0.254m
3	Height of the sampling point from GL	:	7.5m (approx)
4	Area of Stack	:	0.0506 m <sup>2</sup>
С	Analysis / Characteristic of Stack:	T-	-
1	Fuel Used	:	N.A.
2	Fuel consumption	:	N.A.
D	Results of Sampling & Analysis of Gaseous Emission	-	Analysis Results CPCB Limit
1	Temperature of emission (°C)	:	42
2	Barometric pressure (mm of Hg)	:	714
3	Velocity of gas (m/sec.)	1:	5.30
4	Quantity of gas flow (Nm³/hr.)	:	1198
5	Concentration of Carbon monoxide (%)	:	0.78
6	Concentration of Sulphur dioxide (mg/Nm³)	:	1.2
7	Concentration of Nitrogen dioxide (mg/Nm³)	:	20.8 400
8	Concentration of particulate Matters (mg/Nm³)	:	25.7 -50
E	Pollution control Device		
	Details of pollution control		
	Device attached with the stack	:	Nil
F	Remarks		

Dvices Pvt. Ltd. For Visiontek Con



### Visiontek Consultancy Services Pvt. Ltd.

(An Enviro Engineering Consulting Cell)



ISO 14001 : 2004 OHSAS 18001 : 2007

Ref.: ENVLAB/18/R-2406

Date: 1/06/1018

#### **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		Incinerator
2	Emission due to		Burning of H.S. Diesel
3	Material of Construction of stack	1:	MS
4	Shape of stack	:	Circular
5	Whether stack is provided with permanent platform & ladder	:	Yes
6	Generation capacity	:	N.A.
В	Physical Characteristics of Stack:	_	
1	Height of the stack from ground level	:	30m (approx)
2	Diameter of the stack at sampling point	:	0.254m
3	Height of the sampling point from GL	:	7.5m (approx)
4	Area of Stack	:	$0.0506 \mathrm{m^2}$
С	Analysis / Characteristic of Stack:	-	
1	Fuel Used	:	N.A.
2	Fuel consumption		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 (Nm³/hr.)	:	1115.
5	Concentration of Carbon monoxide (%)	:	0.94
6	Concentration of Sulphur dioxide (mg/Nm³)		1.8
7	Concentration of Nitrogen dioxide (mg/Nm <sup>3</sup> )		20.8 400
8	Concentration of particulate Matters (mg/Nm³)	:	26.8 50
Ε	Pollution control Device		
	Details of pollution control		
	Device attached with the stack		Nil
F	Remarks		

For Visioniek Consultancy Services Pvt. Ltd.



### Visiontek Consultancy Services Pvt. Ltd.

(An Enviro Engineering Consulting Cell)



ISO 14001 : 2004 OHSAS 18001 : 2007

Ref.: Envlab/18/R-8641(I)

Date: 05.09.18

#### ANALYSIS REPORT OF FLUE GAS

1. Name of Industry

: Joda East Iron Mines (M/s TATA Steel Limited)

	Date of Sampling		20.08.2018 at 3.1:	5pm
Α	General Information about Stack	1-	-	-
1	Stack Connected to		Incinerator	
2	Emission due to	:	Burning of H.S. D	iesel
3	Material of Construction of stack		MS	
4	Shape of stack		Circular	
5	Whether stack is provided with permanent platform & ladder		Yes	
6	Generation capacity		N.A.	
В	Physical Characteristics of Stack:		1_	
1	Height of the stack from ground level		30m (approx)	
2	Diameter of the stack at sampling point		0.254m	
3	Height of the sampling point from GL		7.5m (approx)	
4	Area of Stack		0.0506 m <sup>2</sup>	
С	Analysis / Characteristic of Stack:			_
1	Fuel Used		N.A.	
2	Fuel consumption		N.A.	
D	Results of Sampling & Analysis of Gaseous Emission	-	Analysis Results	CPCB Limit
1	Temperature of emission (°C)	:	44.0	T. CD Laune
2	Barometric pressure (mm of Hg)	:	714	<u> </u>
3	Velocity of gas (m/sec.)	:	5.1	
4	Quantity of gas flow (Nm3/hr.)		1078	
5	Concentration of Carbon monoxide (%)		0.88(%)	
6	Concentration of Sulphur dioxide (mg/Nm³)	.:	1.2	
7	Concentration of Nitrogen dioxide (mg/Nm³)	:	19.2	400
8	Concentration of particulate Matters (mg/Nm³)		25.6	50
E	Pollution control Device			
	Details of pollution control			
	Device attached with the stack	;	Nil	
F	Remarks		ACES TV	\

Plot No.-M-22&23, Chandaka Industrial Estate, Patra, Bhubaneswar-751024 245, Khurda Odsski 281. 7/32017905
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Committed For Better Environment