

To,  
The Member Secretary  
Jharkhand State Pollution Control Board  
TA Building, HEC Complex, Dhurwa,  
Ranchi – 834004  
Jharkhand

11<sup>th</sup> March, 2019

**Subject: Submission of annual report of Bio-medical waste in prescribed format (Form-IV) of TATA Steel Hospital, Noamundi, for a period of one year (1<sup>st</sup> Jan. 2018 to 31<sup>st</sup> Dec. 2018), as per Bio-medical Waste Management Rule 2016.**

Ref: 1. Bio-medical Waste authorization no. JSPCB/HO/RNC/BMW-1355118/2017/28, dated 30<sup>th</sup> Aug. 2017, valid till 24.10.2021.  
2. Consent to Operate (CTO) no. JSPCB/HO/RNC/CTO-1619551/2017/1284, dated 25<sup>th</sup> Sept. 2017, valid till 24.10.2021.

Dear Sir,

Kindly find attached the annual report of Bio-medical Waste in a prescribed format (Form – IV) as per Bio-medical Waste Management Rules, 2016 for a period of January 2018 to December 2018 of TATA Steel Hospital, Noamundi, Babuline Campus, West Singhbhum district, Jharkhand along with required documents.

Also, kindly find attached the compliance of Consent to Operate (CTO) and Bio-medical Waste Authorization of TATA Steel Hospital, Noamundi as on date for your kind information.

Kindly acknowledge the same.

Thanking you,

Yours sincerely,  
f: TATA Steel Limited

  
11/03/19  
Chief Medical Officer OFFICE  
TATA STEEL HOSPITAL

Enclosed:

- NOAMUNDI
1. Form-IV (Annual Report), Form-1 (Accident Report), Bio-medical Waste Details, Immunization Details, Training Details, Hospital Registration Certificate with Govt. of Jharkhand.
  2. Compliance of Consent to Operate (CTO) & Bio-medical Waste Authorization as on date.
  3. Environmental Monitoring Report of Incinerator, STP & ETP of TATA Steel Hospital, Noamundi.

Copy to:

Regional Officer, Jharkhand State Pollution Control Board, Jamshedpur.



**Form – IV**  
**(See rule 13)**  
**ANNUAL REPORT**

[To be submitted to prescribed authority on before 30<sup>th</sup> 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	: TATA Steel Hospital, Noamundi Health Care Facility
	(i) Name of the authorised person (occupier or operator of facility)	: Dr. Dharendra Kumar, Chief (Medical Officer)
	(ii) Name of HCF or CBMWTF	: TATA Steel Hospital, Noamundi,
	(iii) Address for correspondence	: Babu Line Campus, Noamundi
	(iv) Address of Facility	: District: West Singhbhum,
	(v) Tel. No, Fax. No	: Pin: 833217, JHARKHAND
	(vi) E-mail ID	: Phone:
	(vii) URL of Website	: Fax No. :
	(viii) GPS coordinates of HFC or CBMWTF	: E-mail: <a href="mailto:dharendra.kumar2@tatasteel.com">dharendra.kumar2@tatasteel.com</a> <a href="mailto:envgroup.noa@tatasteel.com">envgroup.noa@tatasteel.com</a> Website: <a href="http://www.tatasteelindia.com">www.tatasteelindia.com</a> GPS location: Lat - 22°08'49.5"N Lon - 85°29'38.1"E
	(ix) Ownership of HCF or CBMWTF	: ( <del>State Government</del> or <b>private</b> or Semi-Govt. or any others) <b>By TATA Steel Ltd.</b>
	(x) Status of Authorisation under the Bio-Medical Waste (Management and Handling)	: Authorization No.: <b>JSPCB/HO/RNC/BMW-1355118/2017/28, dated 30<sup>th</sup> Aug., 2017</b> valid up to <b>24.10.2021</b> .
	(xi) Status of Consent under Water Act and Air Act	: Consent to Operate (CTO) No. JSPCB/HO/RNC/CTO-1619551/2017/1284, dated 25 <sup>th</sup> Sept., 2017 valid up to <b>24.10.2021</b>
2.	Type of health Care Facility	: <b>No. of Beds: 75 (Seventy-Five)</b>
	(i) Bedded hospital	:
	(ii) Non-bedded hospital	:
	(Clinic or Blood Bank or Clinical Laboratory or Research Institute or Veterinary Hospital or any other)	: The hospital is integrated with ICU, Blood Bank, Pathological Lab, X-Ray Room, Ultra Sound facility etc.
	(iii) License number and its date of expiry	: Hospital is registered as per Clinical Establishment Act (Registration & Regulation) 2010 from Govt. of Jharkhand and subsequently applied for renewal.  Registration no.:- JH/BB/1311/1988 (as attached).
3.	Details of CBMWTF	:
	(i) Number healthcare facilities covered by CBMWTF	: <b>Not applicable</b>
	(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



Sl. No	Particulars																																					
4.	Quantity of waste generated or disposed in Kg per annum (on monthly average basis)	<p><b>Yellow Category : 1063 Kg</b> <b>(Average:- 80kg/month)</b></p> <p><b>Red Category : 784.0 Kg</b> (including liquid chemical waste) <b>(Average:- 70kg/month)</b></p> <p><b>White : 1564 Kg</b> <b>(Average:- 100kg/month)</b></p> <p><b>Blue : 521 Kg</b> <b>(Average:-50kg/month)</b></p> <p>General Solid waste : 3.93 Tonnes/yr</p>																																				
5.	Details of the Storage, treatment, transportation, processing and Disposal Facility																																					
	(i) Details of the on-site storage facility	<p>Size :</p> <p>Yellow category : } <b>Provision for</b>  Red Category : } <b>48 hrs storage</b>  White Category : } <b>only</b>  Blue Category : }</p> <p>Capacity :</p> <p>Provision of on-site storage : (cold storage or any other provision) <b>Not available</b></p>																																				
	(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/annum</th> </tr> </thead> <tbody> <tr> <td>Incinerators</td> <td>01</td> <td>25kg/day</td> <td>180</td> </tr> <tr> <td>Plasma Pyrolysis</td> <td>Nil</td> <td></td> <td></td> </tr> <tr> <td>Autoclaves</td> <td>01</td> <td>25kg/day</td> <td></td> </tr> <tr> <td>Microwave</td> <td>Nil</td> <td></td> <td></td> </tr> <tr> <td>Hydroclave</td> <td>Nil</td> <td></td> <td></td> </tr> <tr> <td>Shedder</td> <td>01</td> <td>10kg/day</td> <td>150</td> </tr> <tr> <td>Needle tip cutter or destroyer sharp encapsulation or concrete pit</td> <td>07</td> <td></td> <td>100</td> </tr> <tr> <td>Deep burial pits:</td> <td>01</td> <td></td> <td>as per standard</td> </tr> </tbody> </table> <p>Chemical Disinfection:- <b>Thru Chemical Treatment</b>  Any other treatment.  Equipment :</p> <p><b>10 KLD Effluent Treatment Plant (ETP) &amp; 10 KLD Sewage Treatment Plant (STP) installed and regularly been operated.</b></p>	Type of treatment equipment	No. of units	Capacity Kg/day	Quantity treated or disposed in kg/annum	Incinerators	01	25kg/day	180	Plasma Pyrolysis	Nil			Autoclaves	01	25kg/day		Microwave	Nil			Hydroclave	Nil			Shedder	01	10kg/day	150	Needle tip cutter or destroyer sharp encapsulation or concrete pit	07		100	Deep burial pits:	01		as per standard
Type of treatment equipment	No. of units	Capacity Kg/day	Quantity treated or disposed in kg/annum																																			
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Deep burial pits:	01		as per standard																																			
	(iii) Quantity of recyclable wastes sold to authorized recycler after treatment in kg per annum.	<p>Red Category (like plastic, glass etc.)</p> <p><b>Nil</b></p>																																				
	(iv) No of vehicles used for collection and transportation of biomedical waste	<p><b>Nil.</b> Since entire waste is been treated &amp; incinerated in the premises.</p> <p>However, municipal solid waste (Food, plastic etc) is been collected &amp; disposed by 01 no. vehicle.</p>																																				
	(v) Details of incineration ash and ETP sludge generated and disposed during	<table border="1"> <thead> <tr> <th></th> <th>Quantity Generated</th> <th>Where disposed</th> </tr> </thead> <tbody> <tr> <td>Incineration Ash</td> <td><b>12kg</b></td> <td><b>As per standard</b></td> </tr> </tbody> </table>		Quantity Generated	Where disposed	Incineration Ash	<b>12kg</b>	<b>As per standard</b>																														
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Sl. No	Particulars	
	the treatment of waste in kg per annum	ETP Sludge* <b>Incinerated</b> *Till date no ETP sludge is generated
	(vi) Name of the Common Bio-Medical Waste Treatment Facility Operator through which wastes are disposed of	Nil. Bio-medical waste is collected & disposed internally. The list of incinerator operators are attached in annexure.
	(vii) List of member HCF not handed over bio-medical waste.	--
6.	Do you have bio-medical waste management committee? If yes, attach minutes of the meeting held during the reporting period.	At district level, a bio-medical waste management committee made, chaired by Hon. Dy. Commission, East Singhbhum.  At local level an EHS committee made.
7.	Details trainings conducted on BMW	
	(i) Number of training conducted on BMW Management.	
	(ii) Number of personnel trained	
	(iii) Number of personnel trained at the time of induction	All (100%)
	(iv) Number of personnel not undergone any training so far	Nil (Zero), All paramedical staff & healthcare workers undergone for BMW training
	(v) Whether standard manual for training is available?	Yes
	(vi) Any other information	All healthcare workers under gone for immunization for Hepatitis B and Tetanus regularly.
8.	Details of the accident occurred during the year	<b>Not any such.</b> However, a NIL accident report is attached as annexure.
	(i) Number of Accidents occurred	Nil
	(ii) Number of the persons affected	Nil
	(iii) Remedial Action taken (Please attach details if any)	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  At all the times.
	Details of Continuous online emission monitoring system installed	Online emission monitoring facility is not installed. However, from recognized agency emission monitoring been done regularly. All the monitoring results are attached herewith in annexure.
10.	Liquid waste generated and emission 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>

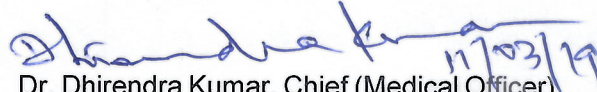




Sl. No	Particulars	
11.	Is the disinfection method or sterilization meeting the log 4 standards? How many times you have not met the standards in a year?	All the times.
12.	Any other relevant information	: (Air Pollution Control Devices attached with the Incinerator).  The double chambered incinerator is installed as per standard.

Certified that the above report is for the period of **one year from January -2018 to December - 2018**

Name and signature of the Head of the Institution

  
Dr. Dharendra Kumar, Chief (Medical Officer)

Date: 11<sup>th</sup> March 2019

Place: TATA Steel Hospital, Noamundi



**Form – I**  
**[(See rule 4(o), 5(i) and 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. Sequence 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 Adequate emergency measure taken to address any accident
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 hrs ambulance service, all the wards / rooms are regularly being monitored by Sister In-charge and Medical Officer. The Hospital always have a well-qualified medical officer for 24hrs 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: **11<sup>th</sup> March 2019**

  
Signature...**Dr. Dharendra Kumar**.....

Place: **TATA Steel Hospital, Noamundi**

Designation ...**Chief (Medical Officer)** .....

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





**YEARLY REPORT OF BIO-MEDICAL WASTE**

**TATA STEEL HOSPITAL, NOAMUNDI**

**JANUARY 2018 - TO DECEMBER 2018**

MONTH	YELLOW (K.G)	RED (K.G)	BLUE (K.G)	WHITE (K.G)	LIQUID (Galon)	GARBAGES (K.G)
JANUARY(2018)	86	61.5	43	123	37000	322.5
FEBRUARY	100	72	50	144	39000	375
MARCH	76	57	38	144	34500	285
APRIL	88	66	37	111	33500	285
MAY	98	73.5	46	138	38500	355
JUNE	60	45	30	90	30000	225
JULY	61	44.5	30	85	33000	227.5
AUGUST	128	96	64	192	49000	482.5
SEPTEMBER	138	103.5	69	207	49500	522
OCTOBER	86	61.5	43	123	37000	322.5
NOVEMBER	80	57	40	114	35000	301.5
DECEMBER	62	46.5	31	93	31000	232.5
TOTAL K. G	1063	784	521	1564	447000	3936





# Immunization Details of Health Care Workers & Others TATA Steel Hospital, Noamundi

Hepatitis 'b' 2017				
S. NO.	NAME	01.05.17 1st dose	02.06.17 2nd dose	02.11.17 3rd dose
01.	Dinesh Karua	✓	✓	✓
02.	Chitrangim Behera	✓	✓	✓
03.	Kiran Chettri	✓	✓	✓
04.	Manalika Basik	✓	✓	✓
05.	Sukdev Masandi	✓	✓	✓
06.	Amanth Reddy	✓	✓	✓
07.	Sudha Sandil	✓	✓	✓
08.	Krishna Karua	✓	✓	✓
09.	Rameshwari Tanti	✓	✓	✓
10.	Seema Sandil	✓	✓	✓
11.	Kanchan Rout	✓	✓	✓
12.	Gousango Ch. Sitar	✓	✓	✓
13.	Krishna Korah	✓	✓	✓
14.	Satyadev Karua	✓	✓	✓
15.	Vivek Kumar	✓	✓	✓
16.	Arti Lohar	✓	✓	✓
17.	Sameer Karua	✓	✓	✓
18.	Nisaj Guchhait	✓	✓	✓
19.	Sitnika Munda	✓	✓	✓
20.	Somibari Terai	✓	✓	✓
21.	Subhasi Topno	✓	✓	✓
22.	Renu Guchhait	✓	✓	✓
23.	Submi Guchhait	✓	✓	✓
24.	Sunika Guchhait	✓	✓	✓
25.	Sufochana Guchhait	✓	✓	✓
26.	Punam Bagti	✓	✓	✓
27.	Nutan Shashi Bisua	✓	✓	✓
28.	Rocky Karua	✓	✓	✓
29.	Nita Behera	✓	✓	✓
30.	Ruby Swati Aind	✓	✓	✓
31.	Maddhuri Hembroin	✓	✓	✓
32.	Chumki Guchhait	✓	✓	✓
33.	Amita Karua	✓	✓	✓
34.	Puja Karua	✓	✓	✓



Anti Hepatitis 'B' S. INJ. T.T.

S.NO.	NAME	1st dose	2nd dose	3rd dose
35.	Gemti Karua	✓	✓	✓
36.	Amit Karua	✓	✓	✓
37.	Raj Kishor Karua	✓	✓	✓
38.	Kishan Das	✓	✓	✓
39.	Sunny Karua	✓	✓	✓
40.	Anamika Karua	✓	✓	✓
41.	Vishnu Karua	✓	✓	✓
42.	Vikash Karua	✓	✓	✓
43.	Abhimanyu Karua.	✓	✓	✓



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

TATA Steel Hospital, Noamundi





**Training of BMW Handlers for disposal of waste through Incinerator**



**Training of BMW Handlers for disposal of waste through Plastic Shredders**

