

Regional Officer, Jharkhand State Pollution Control Board, H.I.G.- 1 Sardar Patel Nagar, Housing Colony Hirapur, Dhanbad (Jharkhand).

Ref. No.- S&E/ENV/ESSA/05/ 841 /2015

September 28th, 2015

Dear Sir,

With reference to the above, we are enclosing here with form (V) (See rule-14) the Environmental Statement for **BHELATAND COAL WASHERY**.

Kindly acknowledge the receipt of the same.

Thanking you,

Yours faithfully,

Manager (Environment)

Copy to: Member Secretary, Jharkhand State Pollution Control Soard, T.A. Bhawan, H.E. C.

Campus, Dhurwa, Ranchi, 834004, Jharkhand.

Copy to: Head (BCPP)

TATA STEEL LIMITED

Jharia Collieries Jamadoba 828 112 Dhanbad India Tel 91 326 2320263/2320265/2320267 Fax 91 326 2320268 Regd. Office Bombay House 24 Homi Mody Street Mumbai 400 001 Tel 91 22 66655282 Fax 91 22 66657724 Corporate Identity Number L27100MH1907PLC000260 Website www.tatasteel.com



$\frac{FORM-V\ (See\ rule-14\)}{Environmental\ Statement\ for\ the\ financial\ year\ ending\ the\ 31^{st}\ March\ -2015}$ Bhelatand Coal Washery

PART - A

1.Name and address of the owner/ occupier of the : industry/ operation or process	Bhelatand Coal Washery
Head :	Mr. M. P. Sinha Head(Bhelatand Coal Washery) Tata Steel Ltd., P.O Bhelatand
	Dist Dhanbad, Jharkhand-828 103
Nominated Owner :	Mr. T.V.Narendran
	Managing Director, Tata Steel Ltd
	(India and South East Asia)
	Jamshedpur, Dist- East Singhbhum
	Jharkhand – 831 001
2.Industry category: Primary (STC Code) Secondary (STC Code)	with the second
3.Production Capacity – Units	0.54 MTPA Clean coal
4.Year of Establishment	1995
5.Date of the last environmental statement submitted	27 th September' 2014
	(Vide Letter
	No.S&E/ENV/ESSA/05/866/14)

PART - B

Water and Raw Material Consumption

Water Consumption M³ / day. 1.

	Water consumption in 2013-2014	Water consumption in 2014-2015 924.74 M ³ / day	
Process	858 M ³ / day		
Cooling	Not Applicable	Not Applicable	
Domestic	1 M ³ / day	$1 \text{ M}^3 / \text{day}$	

SI. No	Name of the products	Process water consumption per unit of product output.			
		During the previous financial year 2013-2014	During the current financial year 2014-2015		
1.	Clean Coal	0.50 M ³ /Tonnes	0.60 M ³ /Tonnes		

FORM - V (See rule - 14)

Environmental Statement for the financial year ending the 31st March -2015 Bhelatand Coal Washery

2. Raw Material Consumption

SI. No	Name of the Raw Material	Name of the product	Raw Materials consumption per unit production output.			
			During the previous financial year 2013-2014	During the current financial year 2014-2015		
1.	Raw Coal	Cl. C.1	1.76 tonne/tonne	1.96 tonne/tonne		
2.	Magnetite	Clean Coal	0.96 kg/tonne	1.02 kg/tonne		

^{*}Industries may use codes if disclosing details of raw materials would violate contractual obligation, otherwise all industries have to name the raw materials used.

 $\frac{PART-C}{Pollution\ discharged\ to\ environment\ /\ unit\ of\ output.}$

(Parameter as prescribed in the consent issued)

SI. No	Pollution	Quantity o discharged (n		llutants ay)	nts Concentration of pollutants in discharges (Mass/Volume)		n discharges	Percentage of variation from prescribed standard with reason.	
A.	AIR	PM ₁₀ Level : 24 Hourly Limit- 100μg/m ³	: 24] Li	M _{2.5} Level 24 Hourly Limit- 60μg/m ³		x Level: Hourly Limit- Oµg/m³	NOx Level: 24 Hourly Limit- 80µg/m ³	All values are within limits.	
		76.8	4	3.0		15.5	19.6		
В.	WATER	Zero water discharge (Closed analysis of water in the settling					All values are within limits.		
		Paramete	r	Resul	ts	Measur ment	re Limit		
		pН		8.47		pН	5.5-9.0		
		Total Suspended Solid		70.92	2	mg/ltr	100		
		Total Dissolved Solid 718.		718.3	3	mg/ltr	2100		
			Biological Oxygen Demand 5.05			mg/ltr	. 30		
		Chemical Ox Demand	70.1		7	mg/ltr	. 250		
		Oil & Grea	se	3.42		mg/ltr	. 10		

The washery does not have any single point source of air pollution. Hence, quantitative estimation of air pollutants discharged in Kg/day cannot be ascertained.

FORM - V (See rule - 14)

Environmental Statement for the financial year ending the 31st March -2015 Bhelatand Coal Washery

$\underline{PART-D}$

Hazardous Wastes

(as specified under Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008)

SI	Hazardous Waste	Total Quantity (Kg.)			
No		During the previous financial year 2013-2014	During the current financial year 2014-2015		
1.	From process Used Oil Lead Acid Battery	1890 Litres Nil	2400 Litres 1 No		
2.	From pollution control facility	-	-		

PART – E Solid Wastes

SI	Solid Wastes	Total Quantity (Kg.)			
No		During the previous financial year 2013-2014	During the current financial year 2014-2015		
1.	From process a. Tailings b. Scrap materials	134591 Tonnes 209.71 Tonnes	207963 Tonnes 158.27 Tonnes		
2.	(i) Quantity recycled or reutilized within the unit/sold/disposed	All tailings sold to institutionalized customers and scrap sold to dealers	All tailings sold to institutionalized customers and scrap sold to dealers		

PART - F

Please specify the characterization (in term of composition and quantum) of hazardous as well as solid wastes and indicate disposal practices adopted for both these categories of wastes.

Category of Waste	Characteristics	Quantity	Disposal Practice
Solid Waste 1. Tailings	Coal of -0.5mm size (Solid)	207963 Tonnes	All tailings sold to institutionalized customers
2. Scrap materials	Solid	158.27 Tonnes	Steel scrap is sold off to vendors.
Hazardous Waste			
1. Used Oil	Used Oil (Liquid)	2400 Litres	Disposed off to authorized recycler.
2. Used Battery	Lead Acid Battery(Solid)	1 No	Disposed off to authorized recycler.

FORM - V (See rule - 14)

Environmental Statement for the financial year ending the 31st March -2015 Bhelatand Coal Washery

PART - G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

Bhelatand coal washery of TATA Steel Ltd. is an ISO 9001, 14001 and OHSAS 18001 unit, entire coal washing is done by eco-friendly way by using standard practice. Dry-fog system has been already installed to suppress the dust generated at CHP and transfer points of belt conveyor systems and is operated at all times to check fugitive emissions. Adequate fixed-type water sprinklers are also installed at the internal roads of the washery.

Tailing management cost per annum is Rs. 20.82 Lakhs.

Rs. 2.35 Lakhs yearly on cost of Mechanical dewatering system.

Rs. 14.16 Lakhs yearly on cost of Housekeeping measures includes removing spillage, improvement of roads.

Rs. 5.54 Lakhs yearly on cost of Dust suppression system (Dry fog system + water sprinklers)

Rs. 0.10 Lakhs yearly on cost of Dust Extraction System.

Rs. 2.83 Lakhs yearly on cost of Water Spraying on Roads.

PART – H

Additional measures/ investment proposals for environmental protection including abatement of pollution, prevention of pollution

Efforts are being made to increase the utilization of the mine out water from Bhelatand colliery for washery operation.

PART-I

Any other particulars for improving the quality of environment

- 1. We are providing safe drinking water from our water treatment plant & MADA to our employees.
- 2. We are regularly sprinkling water in and around the units to suppress dust.
- 3. Our welfare department arranges to clean the domestic garbage from our colonies to provide better environment.
- 4. We also reimburse the cost of LPG cylinder refilling cost to the employees to avoid coal burning.
- 5. Regular monitoring of Air quality & mine water analysis by our separate environment management cell.
- 6. We are continuously increasing the green cover of our leasehold area by planting trees.
- 7. Regular thrust on Environment awareness by conducting training classes at PTI, Jamadoba.
- 8. We are an IMS certified unit (ISO 9001 & 14001 and OHSAS 18001 certified).

Name of Unit - Bhelatand Coal Washery

Head, Bhelatand Coal Washery TATA STEEL LIMITED

