

FORM – V (See rule – 14)
Environmental Statement for the financial year ending the 31st March -2014
Bhelatand Coal Washery

PART – A

1.Name and address of the owner/ occupier of the : industry/ operation or process	Bhelatand Coal Washery
Agent :	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)	--
3.Production Capacity – Units	0.54 MTPA Clean coal
4.Year of Establishment	1995
5.Date of the last environmental statement submitted	30 th September' 2013 (Vide Letter No.S&E/ENV/ESSA/05/957/13)

PART – B

Water and Raw Material Consumption

1. Water Consumption M³ / day.

	Water consumption in 2013-2014
Process	858 M ³ / day
Cooling	Not Applicable
Domestic	1 M ³ / day

Sl. No	Name of the products	Process water consumption per unit of product output.	
		During the previous financial year 2012-2013	During the current financial year 2013-2014
1.	Clean Coal	0.75 M ³ /Tonnes	0.50 M ³ /Tonnes

FORM – V (See rule – 14)**Environmental Statement for the financial year ending the 31st March -2014****Bhelatand Coal Washery****2. Raw Material Consumption**

Sl. No	Name of the Raw Material	Name of the product	Raw Materials consumption per unit production output.	
			During the previous financial year 2012-2013	During the current financial year 2013-2014
1.	Raw Coal	Clean Coal	1.93 tonne/tonne	1.76 tonne/tonne
2.	Magnetite		1.21 kg/tonne	0.96 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.

PART – C**Pollution discharged to environment / unit of output.****(Parameter as prescribed in the consent issued)**

Sl. No	Pollution	Quantity of pollutants discharged (mass/ day)		Concentration of pollutants in discharges (Mass/Volume)		Percentage of variation from prescribed standard with reason.
A.	AIR	SPM Level : 24 Hourly Limit- 700µg/m ³	RPM Level : 24 Hourly Limit- 300µg/m ³	SO ₂ Level: 24 Hourly Limit- 120µg/m ³	NO _x Level: 24 Hourly Limit- 120µg/m ³	All values are within limits.
		<i>(As per Air Quality Standards for Jharia Coal Mines vide notification G.S.R.742(E), dated 25.9.2000)</i>				
		274.07	140.76	10.51	15.67	
B.	WATER	Zero water discharge (Closed water circuit system). The analysis of water in the settling tank is as follows:				All values are within limits.
		Parameter	Results	Measurement	Limit	
		pH	30	pH	5.5-9.0	
		Total Suspended Solid	8.2	mg/ltr.	100	
		Total Dissolved Solid	76	mg/ltr.	2100	
		Biological Oxygen Demand	725	mg/ltr.	30	
		Chemical Oxygen Demand	5.0	mg/ltr.	250	
		Oil & Grease	56	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 -2014****Bhelatand Coal Washery****PART – D****Hazardous Wastes****(as specified under Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008)**

Sl No	Hazardous Waste	Total Quantity (Kg.)	
		During the previous financial year 2012-2013	During the current financial year 2013-2014
1.	From process Used Oil Lead Acid Battery	1890 Litres Nil	1890 Litres 3 Nos
2.	From pollution control facility	-	-

PART – E**Solid Wastes**

Sl No	Solid Wastes	Total Quantity (Kg.)	
		During the previous financial year 2012-2013	During the current financial year 2013-2014
1.	From process a. Tailings b. Scrap materials	144956 Tonnes 122.49 Tonnes	134591 Tonnes 209.71 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)	134591 Tonnes	All tailings sold to institutionalized customers
2. Scrap materials	Solid	209.71 Tonnes	Steel scrap is sold off to vendors.
Hazardous Waste			
1. Used Oil	Used Oil (Liquid)	1890 Litres	Disposed off to authorized recycler.
2. Used Battery	Lead Acid Battery(Solid)	3 Nos	Disposed off to authorized recycler.

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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. 31.06 Lakhs.

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

Rs. 13.26 Lakhs yearly on cost of Housekeeping measures includes removing spillage, improvement of roads.

Rs. 7.52 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. 2.76 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