

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

PART – A

1.Name and address of the owner/ occupier of the : industry/ operation or process	Jamadoba Colliery
Agent :	Mr. Pinaki Saha Head(Jamadoba Colliery) Tata Steel Ltd., P.O.- Jamadoba Dist.- Dhanbad, Jharkhand-828112
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	0.34 MTPA – Raw coal
4.Year of Establishment	1902
5.Date of the last environmental statement submitted	30 th September' 2013 (Vide Letter No.S&E/ENV/ESSA/05/951/13)

PART – B

Water and Raw Material Consumption

1. Water Consumption M³ / day.

	Water consumption in 2013-2014
Process	Not Applicable
Industrial	(This is included in the Environment Statement of Jamadoba Washery)
Domestic	4836.4 M ³ /day
Other	Not Applicable

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.	Raw Coal	Not Applicable	Not Applicable

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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.	Explosives	Raw Coal	0.55 Kg/Tonne	0.51 Kg/Tonne
2.	Detonators		0.92 Nos/Tonne	0.96 Nos/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>				
		263.80	137.26	9.94	13.86	
B.	WATER	Parameter	Results	Measurement	Limit	All values are within limits.
		pH	7.5	pH	5.5-9.0	
		Total Suspended Solid	39.3	mg/ltr.	100	
		Total Dissolved Solid	659.5	mg/ltr.	2100	
		Biological Oxygen Demand	4.4	mg/ltr.	30	
		Chemical Oxygen Demand	41.9	mg/ltr.	250	
		Oil & Grease	0.7	mg/ltr.	10	

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

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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 Used cap lamp Battery	630 Litres 195 Nos	840 Litres 500 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.	Steel Scrap and other materials (conveyor belt, cable pieces waste) collected from U/G mines.	119.260 Tonnes	272.29 Tonnes
2.	Quantity recycled or reutilized within the unit/ sold/ disposed	All scraps sold to vendors	All scraps sold to vendors

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. Steel Scrap and other materials	Solid	272.29 Tonnes	Steel scrap and other solid wastes, which is mentioned here sent to central scrap yard for segregation and disposal to vendors.
Hazardous Waste 1. Used Oil 2. Used Cap Lamp Battery	Used Oil (Liquid) Battery(Solid)	840 Litres 500 Nos	Hazardous wastes are disposed off to registered recyclers according to applicable Hazardous Wastes Management Rules.

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PART – G

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

Rs. 95.15 Lakhs yearly on cost of stowing activities.

Rs. 101.17 Lakhs yearly on cost of Fire Control measures (Fire/Isolation Stopping and Nitrogen plant)

Rs. 4.79 Lakhs yearly on cost of Goaf Filling activities.

Rs. 22.01 Lakhs yearly on cost of Drain repairing /maintenance.

A Continuous Ambient Air Quality Monitoring Station has been installed at Jamadoba for online monitoring with data transfer to JSPCB, Ranchi. Cost incurred for this system is 60 lakhs.

Rs. 90 Lakh approx for making potable water in water treatment plant etc.

Rs. 3,00,000 incurred annually for Horticultural activities including green belt development.

PART – H

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

Tree plantation will be continued in the leasehold area. Water pumped out of the mine will continue to be used in washery and power house other than use in stowing.

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 an around the units, to suppress dust.
3. We provide dust mask to our employees to prevent exposure to dust in underground mines.
4. Our welfare department arranges to clean the domestic garbages from our colonies to provide better environment.
5. We also reimburse the cost of LPG cylinder refilling cost to the employees to avoid coal burning.
6. Regular monitoring of Air Quality & mine water analysis by our separate environment management cell.
7. We have already done the tree plantation job and this is a continuous process in company leasehold areas.
8. Regular thrust on Environment awareness conducting training classes at P.T.I., Jamadoba.
9. We are an IMS certified unit (ISO 9001 & 14001 and OHSAS 18001 certified).

Name of Unit – Jamadoba Colliery

Head, Jamadoba Colliery
TATA STEEL LIMITED