

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

PART – A

1.Name and address of the owner/ occupier of the : industry/ operation or process	Sijua Colliery
Agent :	Mr. Kunal Sharan Head(Sijua Colliery) Tata Steel Ltd., P.O.- Bhelatand Dist.- Dhanbad, Jharkhand-828103
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	1918
5.Date of the last environmental statement submitted	30 th September' 2013 (Vide Letter No. S&E/ENV/ESSA/05/954/13)

PART – B

Water and Raw Material Consumption

1. Water Consumption M³ / day.

	Water consumption in 2013-2014
Process	Not Applicable
Industrial	29.03 M ³ /day
Domestic	1525 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.	Raw Coal	Not Applicable	Not Applicable

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

Sijua Colliery

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	0.25 Kg/Tonne	0.33 Kg/Tonne
2.	Detonators		0.49 Nos/Tonne	0.64 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>						
		265.71	137.88	9.76	14.82			
B.	WATER	Parameter	Results	Measure ment	Limit	All values are within limits.		
		pH	31.9	pH	5.5-9.0			
		Total Suspended Solid	7.4	mg/ltr.	100			
		Total Dissolved Solid	34.6	mg/ltr.	2100			
		Biological Oxygen Demand	648.6	mg/ltr.	30			
		Chemical Oxygen Demand	4.4	mg/ltr.	250			
		Oil & Grease	42.0	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.

FORM – V (See rule – 14)

Environmental Statement for the financial year ending the 31st March -2014

Sijua Colliery

PART – D

Hazardous Wastes

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

Sl No	Hazardous Waste	Total Quantity	
		During the previous financial year 2012-2013	During the current financial year 2013-2014
1.	From process Used Oil Used cap lamp Battery	420 Litres 500 Nos	630 Litres 1500 Nos
2.	From pollution control facility	-	-

PART – E

Solid Wastes

Sl No	Solid Wastes	Total Quantity	
		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.	167.09 Tonnes	255.76 Tonnes
2.	Quantity recycled or reutilized within the unit/ sold/ disposed	All wastes sold to recyclers	All wastes sold to recyclers

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	255.76 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)	630 Litres 1500 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.

Movement of truck for raw coal transportation has been completely stopped from 15-pit, thus helping in reducing the dust pollution load by nearly 50%. This has caused in reduction in CO2 emissions as well.

Rs. 1032.39705 lakhs incurred for stowing activities i.e filling of U/G voids for surface protection and prevention of subsidence.

Rs.20.88172 lakhs incurred for fire control measures including ventilation stopping and isolation stopping.

Rs.7.88122 lakhs yearly on cost of Drain repairing and maintenance, settling tank maintenance jobs.

Rs. 2.5 lakhs 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

We have installed underground belt conveyor system till the washery. Now around 500 TPD raw coal are being transported through underground and remaining 500 TPD through truck transportation. Efforts are being put to further reduce truck transportation.

Fixed type sprinklers are being enhanced for dust suppression in the transportation roads.

PART – I

Any other particulars for improving the quality of environment

1. We are providing safe drinking water from our water treatment plant to our employees.
2. We are regularly sprinkling water in and 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 are continuously increasing the green cover of our leasehold area by planting trees.
8. Regular thrust on Environment awareness by conducting training classes at PTI, Jamadoba.
9. We are an IMS certified unit (ISO 9001 & 14001 and OHSAS 18001 certified).

Name of Unit – Sijua Colliery

Head, Sijua Colliery
TATA STEEL LIMITED