

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/ 729 /2016 September 22, 2016

Dear Sir,

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

Kindly acknowledge the receipt of the same.

Thanking you,

Yours faithfully,

Manager (Environment)

Copy to: Member Secretary, Jharkhand State Pollution Control Board, T.A. Bhawan, H.E. C. Campus, Dhurwa, Ranchi, 834004, Jharkhand.

FORM – V (See rule – 14) Environmental Statement for the financial year ending the 31st March -2016 Bhelatand A. Colliery

PART - A

1.Name and address of the owindustry/ operation or process		Bhelatand A. Colliery
		dominate Literal
Manager	TRUE o full made laise :	Mr. Mayank Shekhar Head(Bhelatand A. 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)	(STC Code) Secondary	reshells redfather
3.Production Capacity - Units		0.34 MTPA – Raw Coal
4.Year of Establishment		1910
5.Date of the last environmenta	al statement submitted	28 th September' 2015
		(Vide Letter
		No.S&E/ENV/ESSA/05/840/15)

PART - B

Water and Raw Material Consumption

Water Consumption M³ / day. 1.

	Water consumption in 2014-2015	Water consumption in 2015-2016
Process	Not Applicable	Not Applicable
Industrial	69.68 M³/day	69.68 M³/day
Domestic	2254.42 M³/day	2213.45 M³/day

SI. No	Name of the products	Process water consumption	ss water consumption per unit of product output.		
		During the previous financial year 2014-2015	During the current financial year 2015-2016		
1.	Raw Coal	Not Applicable	Not Applicable		

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2. Raw Material Consumption

SI. No	Name of the	Name of the	Raw Materials consumption	n per unit production output.	
110	Material	product	During the previous financial year 2014-2015	During the current financial year 2015-2016	
1.	Explosives	A T LINE HOLE I	0.24 Kg/Tonne	0.28 Kg/Tonne	
2.	Detonators	Raw Coal	0.46 Nos/Tonne	0.53 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.

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

(Parameter as prescribed in the consent issued)

SI. No	Pollution	Quantity o discharged (n	-	llutants ay)			Percentage of variation from prescribed standard with reason.			
A.	AIR	PM ₁₀ Level : 24 Hourly Limit- 100µg/m ³	: 24 Li	.5 Level Hourly imit- ug/m ³	SO2 Level: 24 Hourly Limit- 80µg/m ³		NO2 Level: 24 Hourly Limit- 80µg/m ³		Ambient air quality is being measured and all values are within limits	
		88.11	4	4.02		23.10		18.82	as per NAAQS, 2009.	
В.	WATER	Paramete	r	Resul	ts	Unit o		Limit		
		pH		7.9		pН		5.5-9.0	The quality of mine	
	PRE-Place	Total Suspend Solid	led	25.7		mg/ltr		100	water is being measure on monthly basis and a	
		Total Dissolve Solid	ed	673.0)	mg/ltr	•	2100	values are within the limits. Average value	
		Biological Ox Demand	ygen	3.9		mg/ltr		30	for FY16 is provided here.	
		Chemical Oxy Demand	gen	41.0		mg/ltr	•	250		
	on may be	Oil & Grease	THE I	1.5		mg/ltr		10	THE SHARE THE	

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.

Environmental Statement for the financial year ending the 31st March -2016 Bhelatand A. Colliery

PART – D Hazardous Wastes

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

SI	Hazardous Waste	Total Quantity (Kg.)				
No	PAUL I	During the previous financial year 2014-2015	During the current financial year 2015-2016			
1.	From process Used Oil Used cap lamp Battery	2400 Litres 500 Nos	1996 Litres Nil			
2.	From pollution control facility		Controller			

PART – E Solid Wastes

SI	Solid Wastes	Total Quantity (Kg.)				
No		During the previous financial year 2014-2015	During the current financial year 2015-2016			
1.	Steel Scrap and other materials (conveyor belt, cable pieces waste) collected from U/G mines.	228.52 Tonnes	304 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	304 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)	1996 Litres	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.

S. No.	Environment Management Activity	Expenditure in Lakhs	
1	Stowing activities i.e filling of U/G voids for surface protection and prevention of subsidence	781.44	
2	Fire Control measures (Fire/Isolation Stopping and Nitrogen plant)	4.9	
3	Goaf Filling activities, drain repairing and maintenance, settling tank maintenance jobs	14.5	
4	Making potable water in Water Treatment Plant & Supply to colonies	31.99	
5	Horticultural activities including green belt development and regular lawn and garden maintenance	5.88	
6	Plantation of saplings and maintenance	0.59	
	Total Cost incurred	839.3	

Total annual expenditure incurred towards environmental protection is Rs. 839.3 lakhs

Annual raw coal production of the plant during the year is 3.36 lakh tonnes.

So the impact of the pollution abatement measures and environment protection shall be Rs. 249.38 per ton of raw coal production.

PART-H

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

Jharia Division of TATA Steel Ltd. is committed to improve safety and environment by strictly practicing Environmental Management System of company. Various programs are arranged such as World Environmental day, Annual Flower Show for public awareness. Efforts are being made to increase the utilization of the mine water from Bhelatand colliery for washery operation.

A Sewage Treatment Plant has been installed of 200KLD capacity for treatment of domestic sewage of Adarsh Nagri Colony at Bhelatand at a cost of Rs. 65 lakhs. Regular operation and maintenance is being done to ensure optimum performance of plant.

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.

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- 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 - Bhelatand A. Colliery

Head, Bhelatand A. Colliery TATA STEEL LIMITED