



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

Ref. No. - JMB/ENV/ESSA/05/ 527 /2019

September 23, 2019

Sub: Annual Environment Statement in Form V for the FY-19.

Dear Sir,

We are enclosing herewith Annual Environment Statement in Form-V for the FY-19 in respect of **Kalimela Open Cast Project** of M/s Tata Steel Limited, Jharia Division for your kind perusal.

Kindly acknowledge the receipt of the same.

Thanking you,

Yours faithfully,

Manager (Environment)

Received  
23/9/19  
झारखण्ड राज्य प्रदूषण नियंत्रण बोर्ड  
क्षेत्रीय कार्यालय  
धनबाद

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

Copy to: Head, Jamadoba Colliery

**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 66658282 Fax 91 22 66657724  
Corporate Identity Number L27100MH1907PLC000260 Website www.tatasteel.com

**FORM – V (See rule – 14 )**  
**Environmental Statement for the financial year ending the 31<sup>st</sup> March -2019**  
**Kalimela Open Cast Project**

**PART – A**

<b>1.Name and address of the owner/ occupier of the : industry/ operation or process</b>	<b>Kalimela Open Cast Project</b>
<b>Manager :</b>	<b>Mr. Sanjeev Thakur</b> Head(Kalimela Open Cast Project) Tata Steel Ltd., P.O.- Jamadoba Dist.- Dhanbad, Jharkhand-828112
<b>Nominated Owner :</b>	<b>Mr. T.V.Narendran</b> CEO&MD, Tata Steel Ltd Jamshedpur, Dist- East Singhbhum Jharkhand – 831 001
<b>2.Industry category: Primary (STC Code) Secondary (STC Code)</b>	--
<b>3.Production Capacity – Units</b>	0.30 MTPA – Raw coal
<b>4.Year of Establishment</b>	October'2009
<b>5.Date of the last environmental statement submitted</b>	24 <sup>th</sup> September' 2018 (Vide Letter No.JMB/ENV/ESSA/05/827/2018)

**PART – B**

**Water and Raw Material Consumption**

**1. Water Consumption M<sup>3</sup> / day**

	<b>Water consumption in 2017-2018</b>	<b>Water consumption in 2018-2019</b>
<b>Process</b>	Not Applicable	Not Applicable
<b>Industrial</b>	Nil*	Nil*
<b>Domestic</b>	Not Applicable	Not Applicable
<b>Other</b>	Not Applicable	Not Applicable

\*The raw coal production from above mine is closed from Nov'16 as the mine is exhausted. The backfilling of overburden and reclamation jobs are going on.

<b>Sl. No</b>	<b>Name of the products</b>	<b>Process water consumption per unit of product output.</b>	
		<b>During the previous financial year 2017-2018</b>	<b>During the current financial year 2018-2019</b>
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 2017-2018	During the current financial year 2018-2019
1.	Explosives	Raw Coal	Nil	Nil

\*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	PM <sub>10</sub> Level : 24 Hourly Limit- 100µg/m <sup>3</sup>	PM <sub>2.5</sub> Level : 24 Hourly Limit- 60µg/m <sup>3</sup>	SO <sub>x</sub> Level: 24 Hourly Limit- 80µg/m <sup>3</sup>	NO <sub>x</sub> Level: 24 Hourly Limit- 80µg/m <sup>3</sup>	All values are within limits.
		81.48	46.91	9.07	9.73	
B.	WATER	There is no effluent and mine water discharge as the mining operation is closed for two years.				

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

**PART – D**

**Hazardous Wastes**

(as specified under The Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016)

Sl No	Hazardous Waste	Total Quantity (Kg.)	
		During the previous financial year 2017-2018	During the current financial year 2018-2019
1.	From process Used Oil	Nil	Nil
2.	From pollution control facility	-	-

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**Kalimela Open Cast Project**

**PART – E**  
**Solid Wastes**

Sl No	Solid Wastes	Total Quantity ( Kg.)	
		During the previous financial year 2017-2018	During the current financial year 2018-2019
1.	Overburden	Nil	Nil
2.	Quantity recycled or reutilized within the unit/ sold/ disposed	OB which has been dumped in an external dump area of 12 Ha which is being backfilled.	

**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
<b>Solid Waste</b> 1. Overburden	Solid	Nil	Overburden was dumped at earmarked sites within the leasehold area as per Environmental Clearance conditions. This is now being used for backfilling of void.
<b>Hazardous Waste</b> 1. Used Oil	Used Oil (Liquid)	Nil	-

**PART – G**

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

The mine was closed during this period. However, the fund earmarked for reclamation of the mine shall be used as per the mine closure plan

**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. Also, various initiatives for biodiversity enhancement in the region have been taken in FY19 such as Artificial Niche Nesting, Development of Butterfly garden, Medicinal Garden, Nursery development of native species, Hibiscus park etc. Tree plantation will be continued in the leasehold area. Backfilling of the mine voids has started and OB from the external dump is being used for this purpose. The area will be reclaimed and then plantation would be done on the reclaimed area.

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**Environmental Statement for the financial year ending the 31<sup>st</sup> March -2019**  
**Kalimela Open Cast Project**

**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. Our welfare department arranges to clean the domestic garbages from our colonies to provide better environment.
4. Regular monitoring of Air Quality & mine water analysis by our separate environment management cell.
5. We have already done the tree plantation job and this is a continuous process in company leasehold areas.
6. Regular thrust on Environment awareness conducting training classes at P.T.I., Jamadoba.
7. We are an IMS certified unit (ISO 9001:2015 & 14001:2015 and OHSAS 18001 certified).

**Name of Unit – Kalimela Open Cast Project**

  
**Head, OCP Kalimela**  
**TATA STEEL LIMITED**

**HEAD**  
**JAMADOBA COLLIERY**