

**Form-V**  
**(See Rule 14)**  
**Environmental statement for the financial year ending 31<sup>st</sup> March 2013.**

**Unit- Logistic (Dispatch)**

**PART-A**

- i) Name and address of the owner/ Occupier of the industry operation or process : **Mr. P.K Dhall**  
**Chief (Coal Beneficiation)**  
**West Boakro Division,**  
**TATA Steel Limited, P.O.: Ghatotand**  
**Dist. Ramgarh, Jharkhand- 825314**
- ii) Industry category Primary- (STC-code) : SITC -321.4, 321.5A, 321.6A  
Secondary- (SIC code) : ISIC -2100
- iii) Production capacity- units : Two circuit 800 – 1000 TPH of each circuit..
- iv) Year of establishment : 1982
- v) Date of last environmental statement submitted : Letter no. EMC/IMS/4016/571/12, dated 15<sup>th</sup> Sept, 2012. For the year 2011-12.

**PART-B**

**Water and Raw material Consumption**

i) Water Consumption ( m<sup>3</sup>/d)

- Process : 1.5 m<sup>3</sup>/d  
Cooling : Not applicable  
Domestic : 75 KL/day

Name of the Product	Process Water Consumption per unit of product output	
	During the previous Financial year (2011-12)	During the current Financial year (2012-13)
It is not a production unit only loading of coal in Railway wagons takes place.		

ii) Raw material consumption

*Name of raw materials	Name of products	Consumption of raw material per unit of output	
		During the previous Financial year (2011-12)	During the current Financial year (2012-13)
No raw material required, it is a railway loading siding where coal loading takes place.			

\*Industry may use codes is disclosing details of raw material 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 specified in the consent issued)

<b>Pollutants</b>	<b>Quantity of pollutants discharged (mass /day)</b>	<b>Concentration of pollutants discharges (mass / volume)</b>	<b>Percentage of variation from prescribed standards with reason</b>
a. Water	Normally the quantity of effluent is very less which is recycled, for watering to plant & spraying on the road.		
b. Air	Due to absence of stationary source, it is difficult to measure pollutants load. However, ambient air quality is being measured in the area. Results of ambient air quality monitoring report are enclosed herewith which confirm the prescribed limit		

### PART-D

**(As specified under Hazardous Wastes  
[Management, Handling and Transboundry Movement Rules, 2008])**

<b>Hazardous Waste</b>	<b>Total Quantity</b>	
	<b>During the previous financial year (2011-12)</b>	<b>During the current financial year (2012-13)</b>
(a) From Process Oil soaked cotton (jute)	400 Kg/Yr	350 Kg/y
(b) From Pollution control facilities Used Oil	555 liters	800 liters

### PART- E **Solid Wastes**

<b>Solid Wastes</b>	<b>Total Quantity</b>	
	<b>During the previous financial year(2011-12)</b>	<b>During the current financial year (2012-13)</b>
(a) From Process	Nil	Nil
(b) From Pollution control facilities	-	-
(C) (1)Quantity recycled or reutilized within the unit		-
(2) Sold ( to reuse as fuel)		Nil
(3) Disposed		-

#### PART-F

Please specify the characterization (in term of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

Category of Waste	Characteristics	Quantity	Disposal Practice
<b>Haz. Waste</b> 1. Used Oil 2. Oil soaked cotton/jute	Used Oil ( <i>Liquid</i> ) Used Cotton( <i>Solid</i> )	800 lit 350 Kg	Disposed off to authorized recycler. Safely collected and stored.

#### PART-G

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

Logistic unit of West Bokaro Colliery 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. Adequate dust suppression arrangement is made in haul roads.

The combined impact due to implementation of pollution prevention and control measures cost per tonne of ROM coal, of entire west Bokaro division (Washery, PH, Mines, Eng. services, Logistic, etc.) is Rs. 26.51 (Rupees twenty six and fifty one paisa only).

#### PART-H

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

Construction of retaining wall at various points to avoid contamination of runoff water. Illumination in the yard is being maintained by putting high mast tower.

Installation of pipe conveyor for transportation of clean coal and middling's to the end point. Uses of surfactants with water to increase moisture retention time on haul road, which consequently reduces water consumption in dust suppression. The roads are pucca (black top road) connected to railway siding except nearly 1.0 km road which is under construction to be completed by Oct.13.

#### PART-I

**Any other particular for improving the quality of the environment**

EMS ISO 14001 & OHSAS 18001 are being monitored and practiced strictly to protect and preserve the environment by eco-friendly operations and prevent any potential hazard to become risk posing serious threat to environment in a proactive manner. Road construction job to be taken up after monsoon.

**Mr. P. K. Dhall, Chief (Coal Beneficiation),  
West Bokaro Division, TATA Steel Limited, P.O.: Ghatotand  
Dist. Ramgarh, Jharkhand- 825314**

## Air Quality Report at Work Place

Name of Industry: **West Bokaro Division**No. of sampling points: **(01)**Date of Sampling: **05.04.2013 to 20.04.2013**  
**07.05.2013 to 22.05.2013**  
**07.06.2013 to 22.06.2013**Sampling position: **Logistics (Dispatch)**

## 1. Control, Room

Location	Time	SO <sub>2</sub>	NO <sub>x</sub>	RPM	SPM
Logistics, (Despatch)	09.00 AM to 05.00 PM on 05.04.2013	2.3	42	142	398
	05.00 PM on 05.04.2013 to 09.00 AM on 06.04.2013	2.2	36	133	338
	09.00 AM to 05.00 PM on 19.04.2013	2.4	39	145	430
	05.00 PM on 19.04.2013 to 09.00 AM on 20.04.2013	2.0	36	123	366
	09.00 AM to 05.00 PM on 07.05.2013	2.6	42	151	457
	05.00 PM on 07.05.2013 to 09.00 AM on 08.05.2013	2.2	35	132	372
	09.00 AM to 05.00 PM on 21.05.2013	2.7	38	143	436
	05.00 PM on 21.05.2013 to 09.00 AM on 22.05.2013	2.2	34	137	417
	09.00 AM to 05.00 PM on 07.06.2013	2.8	40	130	392
	05.00 PM on 07.06.2013 to 09.00 AM on 08.06.2013	2.4	32	126	324
	09.00 AM to 05.00 PM on 21.06.2013	2.4	37	121	347
	05.00 PM on 21.06.2013 to 09.00 AM on 22.06.2013	2.2	32	117	340
	<b>Maximum</b>		<b>2.8</b>	<b>42</b>	<b>151</b>
<b>Average</b>		<b>2.4</b>	<b>37</b>	<b>133</b>	<b>385</b>
<b>Limit</b>		<b>120</b> µg/ m <sup>3</sup>	<b>120</b> µg/ m <sup>3</sup>	<b>300</b> µg/ m <sup>3</sup>	<b>700</b> µg/ m <sup>3</sup>

## Air Quality Report at Work Place

Name of Industry: **West Bokaro Dispatch, Chainpur**

No. of sampling points: **(03)**

Date of Sampling: **24.04.2013 to 25.04.2013**  
**08.05.2013 to 09.05.2013**  
**25.06.2013 to 26.06.2013**

### 1. Basti (Atna)

Location	Time	SO <sub>2</sub>	NO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
<b>ATNA (BASTI)</b>	09.00 AM to 05.00 PM on 24.04.2013	2.4	37	62	40
	05.00 PM on 24.04.2013 to 09.00 AM on 25.04.2013	2.0	28	51	36
	09.00 AM to 05.00 PM on 08.05.2013	3.2	42	67	44
	05.00 PM on 08.05.2013 to 09.00 AM on 09.05.2013	2.4	35	61	40
	09.00 AM to 05.00 PM on 25.06.2013	2.0	32	40	38
	4.30 PM on 25.06.2013 to 8.30 AM on 26.06.2013	2.0	30	35	35
<b>Maximum</b>		<b>3.2</b>	<b>42</b>	<b>67</b>	<b>44</b>
<b>Average</b>		<b>2.3</b>	<b>34.2</b>	<b>53</b>	<b>39</b>
<b>Limit</b>		<b>80 µg/m<sup>3</sup></b>	<b>80 µg/m<sup>3</sup></b>	<b>100 µg/m<sup>3</sup></b>	<b>60 µg/m<sup>3</sup></b>

## Air Quality Report at Work Place

Name of Industry: **West Bokaro Despatch, Chainpur**

No. of sampling points: **(03)**

Date of Sampling: **04.04.2013 to 05.04.2013**  
**06.05.2013 to 07.05.2013**  
**13.06.2013 to 14.06.2013**

### 2.Near Store

Location	Time	SO <sub>2</sub>	NO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
<b>NEAR STORE</b>	09.00 AM to 05.00 PM on 04.04.2013	2.8	35	61	39
	05.00 PM on 04.04.2013 to 09.00 AM on 05.04.2013	2.2	28	55	35
	09.00 AM to 05.00 PM on 06.05.2013	2.8	41	67	42
	05.00 PM on 06.05.2013 to 09.00 AM on 07.05.2013	2.4	36	56	39
	09.00 AM to 05.00 PM on 13.06.2013	2.2	35	51	38
	05.00 PM on 13.06.2013 to 09.00 AM on 14.06.2013	2.0	32	39	35
<b>Maximum</b>		<b>2.8</b>	<b>41</b>	<b>67</b>	<b>42</b>
<b>Average</b>		<b>2.4</b>	<b>34</b>	<b>55</b>	<b>38</b>
<b>Limit</b>		<b>80 µg/m<sup>3</sup></b>	<b>80 µg/m<sup>3</sup></b>	<b>100 µg/m<sup>3</sup></b>	<b>60 µg/m<sup>3</sup></b>

### Air Quality Report at Work Place

Name of Industry: **West Bokaro Despatch, Chainpur**      No. of sampling points: **(03)**

Date of Sampling: **05.04.2013 to 06.04.2013**  
**07.05.2013 to 08.05.2013**  
**14.06.2013 to 15.06.2013**

#### 3.Near Mandap (Basti)

Location	Time	SO <sub>2</sub>	NO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
<b>NEAR MANDAP ( Basti)</b>	09.00 AM to 05.00 PM on 05.04.2013	2.5	38	65	43
	05.00 PM on 05.04.2013 to 09.00 AM on 06.04.2013	2.0	34	60	36
	09.00 AM to 05.00 PM on 07.05.2013	3.2	38	72	45
	05.00 PM on 07.05.2013 to 09.00 AM on 08.05.2013	2.5	32	64	42
	09.00 AM to 05.00 PM on 14.06.2013	2.6	38	48	42
	05.00 PM on 14.06.2013 to 09.00 AM on 15.06.2013	2.4	32	40	38
<b>Maximum</b>		<b>3.2</b>	<b>38</b>	<b>72</b>	<b>45</b>
<b>Average</b>		<b>2.5</b>	<b>35</b>	<b>58</b>	<b>41</b>
<b>Limit</b>		<b>80 µg/m<sup>3</sup></b>	<b>80 µg/m<sup>3</sup></b>	<b>100 µg/m<sup>3</sup></b>	<b>60 µg/m<sup>3</sup></b>

*Effluent Quality*

SAMPLING DATE: 07.06.2013

LOCATION	LEVELS					
	pH	TSS	COD	BOD	Oil & Grease	Phenolics
QLC	7.1	18	44	5.4	2.1	Nil
LIMIT	5.5-9.0	100 mg/L	250 mg/L	30 mg/L	5 mg/L	1.0 mg/L

*AMBIENT NOISE MONITORING*

LOCATION	NOISE LEVELS dB(A)			
	DURING DAY TIME		DURING NIGHT TIME	
	LIMIT	ACTUAL	LIMIT	ACTUAL
Logistics, (Dispatch)	75	50-52	70	51-52

Head (Env. & Forests) RMP  
West Bokaro  
Tata Steel