

Ref: JSL/L-Mines /BHL/2015-16/23

Dated: 14.09.2016

To,

**The Member Secretary,  
Rajasthan Pollution Control Board  
4, Institutional Area, Jhalana Doongri,  
Jaipur (Rajasthan)**

**Sub:** Environmental Statement report for the Financial Year ended on 31<sup>st</sup> March' 2016 in respect of Lampiya Iron Ore, Copper and Associated Minerals Mine (ML No. 627/05).

**Ref:** (i) EC accorded by MoEF vide letter No.J-11015/460'2008-IA.II (M) dated 31.05.2011.

(ii) Consent to Operate Letter No. F (Mines)/Bhilwara (Banera)/27/ (1)/2012-2013/8729-8733 dated 24/02/2014

Dear Sir,

Kindly find enclosed herewith Environmental Statement report for the period of 1<sup>st</sup> April 2015 to 31<sup>st</sup> March 2016 in respect of our Lampiya Iron Ore, Copper and Associated Minerals Mine (ML No. 627/05) of M/s Jindal Saw Limited located near located near Village: Lampiya, Tehshil: Banera, Distt. Bhilwara (Rajasthan) for your reference and records.

Thanking you,

Yours faithfully,  
**For: JINDAL SAW LTD.**

  
**Dinesh Patil  
Agent-Dhedwas Iron Ore Mine**



Encls: a/a

Copy to:

1. The Director, Regional Office, MOEF, Kendriya Bhawan, 5th Floor, Sector-H, Lucknow-Uttar Pradesh (Pin-226024)
2. The Regional Officer, Rajasthan State Pollution Control Board, 18, Azad Nagar, Pannadhai Circle, Bhilwara-Rajasthan, (Pin-311001)

**FORM - V**  
**(See rule 14)**

Environmental statement for the financial year ending the **31<sup>st</sup> March 2016**

**PART-A**

<b>(i)</b>	Name and address of the owner/ occupier of the industry operation or process.	: <b>M/s Jindal Saw Limited</b> <b>Araji No. 9697/6711, Near Tiranga Hill,</b> <b>Village: Pur, Tehsil &amp; Distt. Bhilwara,</b> <b>Rajasthan, Pin-311008</b>  <b>Mines Location:</b>  <b>Lampiya Iron Ore, Copper and Associated</b> <b>Minerals Mine (ML No. 627/05)</b> <b>Village: Lampiya, Tehsil- Banera, District-</b> <b>Bhilwara (Rajasthan)</b>						
<b>(ii)</b>	Industry Category	: <b>Red</b>						
<b>(iii)</b>	Production Capacity	: <p align="center"><b><u>DETAIL OF PRODUCT WITH QUANTITIES</u></b></p> <table border="1" data-bbox="810 1037 1522 1133"> <thead> <tr> <th data-bbox="810 1037 884 1088">SN</th> <th data-bbox="888 1037 1075 1088">Products</th> <th data-bbox="1080 1037 1522 1088">Existing capacity</th> </tr> </thead> <tbody> <tr> <td data-bbox="810 1095 884 1133">1</td> <td data-bbox="888 1095 1075 1133">Iron Ore</td> <td data-bbox="1080 1095 1522 1133">3.0 Million Tonnes Per Annum</td> </tr> </tbody> </table>	SN	Products	Existing capacity	1	Iron Ore	3.0 Million Tonnes Per Annum
SN	Products	Existing capacity						
1	Iron Ore	3.0 Million Tonnes Per Annum						
<b>(iv)</b>	Year of Establishment	: <b>08 April 2014</b>						
<b>(v)</b>	Date of Last Environment Statement Submitted	: <b>28 Sep 2015</b>						

**PART - B**

**Water and Raw Material Consumption**

**(1) Water consumption m<sup>3</sup>/d**

Process	-	Nil
Dust Suppression & Cooling	-	4.5 (approx)
Domestic	-	0.5 (approx)

**(1) Name of Products**

Nature of Products	Process Water Consumption per unit of product output	
	During the previous financial year	During the current financial year
1) Iron Ore	0.34 Kl /Ton of Iron Ore	0.63 Kl /Ton of Iron Ore

**(2) Raw material consumption**

Name of Raw material:		
Consumption of raw material per unit of product Output		
Name of product:	During the previous Financial year	During the current Financial year
<b>1. Iron Ore</b>	<b>Not Applicable</b>	<b>Not Applicable</b>

- Industry may use codes if disclosing details of raw material would violate contractual obligations; 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)

Pollutants	Quantity of pollutants discharged (Mass/day)	Concentration of pollutants in discharges (Mass/volume)	Percentage of variation from prescribed standards with reasons
(a) Water	<b>Industrial:</b>	No wastewater discharge from the mining activity.	Well Within the Prescribed Limits
	<b>Domestic:</b>	For the present, mining operation is on a very small scale employing only 6 to 8 persons per day. We shall construct septic tank and soak pit as per prescribed standard.	
(b) Air		Concentration of the pollutants in the air was measured every quarter Ambient Air Quality & Noise Monitoring report is enclosed in annexure-I & II	

**PART – D**

**HAZARDOUS WASTES**

(As specified under Hazardous Wastes/Management and Handling Rules, 1989)

Hazardous Wastes	Total Quantity (MT)	
	During the previous financial year	During the current financial year
(a) From process  During Mining operation no any hazardous waste generated from the process except used oil which was generated from machinery equipment.	Total Quantity Used Oil Generated from (Apr 14 to Mar 15): <b>0.25 KL</b>  Quantity reused for lubrication of Chain Mounted Equip.: <b>0.25 KL</b>	Total Quantity Used Oil Generated from (Apr 15 to Mar 16): <b>0.15 KL</b> Quantity reused for lubrication of Chain Mounted Equip.: <b>0.10 KL</b> Balance upto Mar 2016: <b>0.05 Nos.</b> for reuse and selling to recycler
(b) From pollution control facilities	<b>NA</b>	<b>NA</b>

**PART – E**  
**SOLID WASTES**

	Total Quantity	
	During the previous financial year	During the current financial year
(a) From process	Nil, at present mining operation is in a limited area During the statement period (April 2014 to March 2015) No OB was Generated.	Presently mining operation is very limited area During the statement period (April 2015 to March 2016) No Overburden was generated.
(b) From pollution control facilities	<b>Nil</b>	<b>Nil</b>
(C)(1)Quantity recycled or reutilized within the unit	<b>Nil</b>	<b>Nil</b>
(2)Sold	<b>Nil</b>	<b>Nil</b>
(3)Disposed	<b>Nil</b>	<b>Nil</b>

**PART – F**

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

**Hazardous Waste**

During Mining No Hazardous Waste is generated from the operation except used oil which is drained from machineries/ equipments. It is used for lubrication of chain mounted machines, balanced quantity will be sent to authorize recycler.

## **Solid Waste:**

### **1. Overburden from Mine**

The OB generated from the mine consists of Calc Silicate, Calc schist and calcs gneiss. During the compliance period (April 2015 to March 2016) there was No Overburden quantity generated from Lampiya Mines.

## **PART – G**

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

Jindal Saw Ltd. Bhilwara is continuously making efforts to conserve the natural resources as well as environment by adopting clean and green technology for mining operation. In this regard Jindal Saw Limited initiated to carry-out low grade iron ore mining first time in Bhilwara District, Rajasthan. By this way we can promote mineral conservation policy i.e use of sub-grade material. The vehicles used in the Mine are environment friendly due to regular maintenance. These are not overloaded and tarpaulins are used for dispatch of ore from the mine.

## **PART – H**

### **Additional measures/investment proposed for environmental protection including abatement of pollution, prevention of pollution.**

Effective water sprinkling is done to suppress the dust at mine face, road and loading and unloading places. Routine environment monitoring of Ambient Air, Ambient Noise Ground and Surface water is being carried out by MoEF, NABL approved lab. Apart from this to ensure Environmental Sustainability, Ecological balance, protection of Flora & Fauna, animal Welfare, agroforestry, conservation of natural resources & maintain quality of soil, water & air as part of CSR, company providing necessary support to Nagar Parishad Bhilwara for Park Maintenance etc.

The expenditure made by us for the purpose of environmental management and CSR purpose during the period 2015-2016 is as follows:

<b>Environment Monitoring</b>	:	3.1 Lakh
<b>Rural Development/CSR carried by M/s Jindal Saw Ltd. in Bhilwara Units</b> (Community Park Maintenance, Tree Guard & Plantation, and other CSR activity i.e. Blood Donation Camp, Drinking water supply, School & Village development, Fodder Distribution, Religious Places Development, Disaster Relief, Hygiene Cleaning in MG Hospital Bhil	:	715.2 Lakh

## **PART – I**

### **Any other particulars for improving the quality of the environment**

At present mining is done on a very small scale above the general ground level. We shall implement suitable conservation measures as suggested in EIA report.

  
(Dinesh Chandra Patil)

Agent- Lampiya Iron Ore, Copper and Associated Minerals Mine.

## Ambient Air Quality Comparative Monitoring Statement for the period of April 2015 to March 2016

Lampiya Iron Ore, Copper and Associated Minerals Mine (ML NO. 627/05), Jindal Saw Limited, Bhilwara

Location/ Month	Village Devpura						Village Kamalpura					
	PM10	PM 2.5	SO2	Nox	CO	SPM	PM10	PM 2.5	SO2	Nox	CO	SPM
	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
Jun-15	56.48	19.18	4.16	13.06	190.00	172.04	59.27	23.68	6.16	14.26	230.00	217.24
Sep-15	64.90	20.54	4.76	12.86	230.00	210.28	54.95	23.67	6.42	11.61	190.00	214.80
Dec-15	64.90	20.54	7.14	11.92	200.00	210.28	71.49	28.92	6.30	10.58	180.00	168.66
Mar-16	60.60	23.93	7.43	11.92	190.00	208.97	68.21	27.06	7.48	13.15	240.00	144.95
Min	56.48	19.18	4.16	11.92	190.00	172.04	54.95	23.67	6.16	10.58	180.00	144.95
Max	64.90	23.93	7.43	13.06	230.00	210.28	71.49	28.92	7.48	14.26	240.00	217.24
Avg.	61.72	21.05	5.87	12.44	202.50	200.39	63.48	25.83	6.59	12.40	210.00	186.41

Location/ Month	Village Chimanpura						Village Lampiya					
	PM10	PM 2.5	SO2	Nox	CO	SPM	PM10	PM 2.5	SO2	Nox	CO	SPM
	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
Jun-15	61.61	34.07	6.72	15.32	190.00	231.06	62.59	24.47	5.52	13.07	160.00	239.98
Sep-15	51.16	18.25	4.81	14.41	220.00	207.20	57.87	27.29	6.08	15.94	210.00	236.19
Dec-15	67.35	23.45	9.70	14.49	230.00	223.17	85.56	34.41	6.73	15.06	210.00	271.57
Mar-16	60.62	32.13	7.13	12.74	210.00	260.25	69.92	28.60	6.36	11.69	230.00	265.65
Min	51.16	18.25	4.81	12.74	190.00	207.20	57.87	24.47	5.52	11.69	160.00	236.19
Max.	67.35	34.07	9.70	15.32	230.00	260.25	85.56	34.41	6.73	15.94	230.00	271.57
Avg.	60.19	26.98	7.09	14.24	212.50	230.42	68.99	28.69	6.17	13.94	202.50	253.35

Location/ Month	Village Banera						Village Jaliya					
	PM10	PM 2.5	SO2	Nox	CO	SPM	PM10	PM 2.5	SO2	Nox	CO	SPM
	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
Jun-15	51.66	21.13	5.02	13.76	210.00	218.09	64.30	18.48	5.25	12.70	210.00	213.47
Sep-15	45.06	18.54	5.24	11.75	190.00	174.68	53.47	23.45	5.88	15.64	180.00	209.28
Dec-15	82.04	21.45	7.13	16.06	190.00	293.01	64.30	27.32	5.67	14.82	210.00	189.25
Mar-16	58.10	22.90	6.20	15.11	210.00	260.25	70.59	29.65	5.71	11.86	260.00	282.89
Min	45.06	18.54	5.02	11.75	190.00	174.68	53.47	18.48	5.25	11.86	180.00	189.25
Max.	82.04	22.90	7.13	16.06	210.00	293.01	70.59	29.65	5.88	15.64	260.00	282.89
Avg.	59.22	21.01	5.90	14.17	200.00	236.51	63.17	24.73	5.63	13.76	215.00	223.72

Note: Above monitoring result is based upon Environment Monitoring carriedout by MoEF, RPCB and NABL Approved Agency.

## Ambient Noise Level Comparative Monitoring Statement for the period of April 2015 to March 2016

Lampiya Iron Ore, and Copper Associated Minerals Mine (ML NO. 627/05), Jindal Saw Limited, Bhilwara

Sr. No.	Location of Sampling/ Month/	Date of Monitoring	Lampiya		Jaliya	
			Results in dB(A) (Day Time)	Results in dB(A) (Night Time)	Results in dB(A) (Day Time)	Results in dB(A) (Night Time)
01.	Jun-15	29.06.2015	52.4	41.3	50.3	41.0
02.	Sep-15	19.09.2015	52.4	41.5	50.3	40.6
03.	Dec-15	11.12.2015	50.1	41.0	48.7	39.8
04.	Mar-16	15.03.2016	52.3	42.7	53	41.2
AVERAGE			51.80	41.63	50.58	40.65

Sr. No.	Location of Sampling/ Month/	Date of Monitoring	Devpura		Kamalpura	
			Results in dB(A) (Day Time)	Results in dB(A) (Night Time)	Results in dB(A) (Day Time)	Results in dB(A) (Night Time)
01.	Jun-15	29.06.2015	49.7	38.5	53.2	42.4
02.	Sep-15	19.09.2015	51.7	42.3	52.8	41.3
03.	Dec-15	11.12.2015	48.5	41.0	51.3	42.3
04.	Mar-16	15.03.2016	52.3	40.2	51.9	39.1
AVERAGE			50.55	40.50	52.30	41.28

Sr. No.	Location of Sampling/ Month/	Date of Monitoring	Banera		Chimanpura	
			Results in dB(A) (Day Time)	Results in dB(A) (Night Time)	Results in dB(A) (Day Time)	Results in dB(A) (Night Time)
01.	Jun-15	29.06.2015	51.4	40.3	49.6	39.5
02.	Sep-15	19.09.2015	53.26	42.7	50.9	40.7
03.	Dec-15	11.12.2015	52.4	40.5	48.3	39.5
04.	Mar-16	15.03.2016	50.4	41.9	52.7	40.6
AVERAGE			51.87	41.35	50.38	40.08

Note: Above monitoring result is based upon Environment Monitoring carried out by MoEF, RPCB and NABL Approved Agency.