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HIL/LHD/ENV/BHUSAR/JSPCB/272

Date: 23.09.2022

To  
The Member Secretary  
Jharkhand State Pollution Control Board  
TA building, Ground floor  
HEC Complex, PO Dhurwa  
Ranchi-834003

Sub: Environment Statement for Bhusar Bauxite Mines (Area-65.31 ha) of M/s Hindalco Industries Limited, Lohardaga for the year 2021-22.

Sir,

This has reference to Rule 14 of Environment Protection Act 1986. We are submitting herewith Environment Statement in prescribed Form V for Bhusar Bauxite Mines (Area-65.31 ha) of M/s Hindalco Industries Limited, Lohardaga for the financial year 2021-22.

Kindly acknowledge receipt for the same.

Thanking you,

Yours truly,  
For M/s Hindalco Industries Limited

for  
Amay

Basudev Gangopadhyay  
AVP (Planning, Environment & Compliance)



Encl: Form-V with Annexure

CC:-

1. The Regional Officer, Jharkhand State Pollution Board, Dhurwa, Ranchi.
2. The Scientist (E) / Additional Director, MoEF&CC, Regional Office, Ranchi.

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

**Environment Statement for the financial year ending the 31<sup>st</sup> March 2022**

**PART-A**

(i)	Name & address of the owners/occupier of the industry/operation/ process	Bhusar Bauxite Mines (65.31 ha) Hindalco Industries Limited Lohardaga -835302, Jharkhand
(ii)	Industry Category: Primary (STC code), Secondary (SIC code)	-
(iii)	Production Capacity :	2.80 LTPA (Bauxite)
(iv)	Year of establishment	1966
(v)	Date of last environmental statement submitted	29-09-2021

**PART-B**

**Water & Raw material Consumption**

Water Consumption (m<sup>3</sup>/day) approx: 15 m<sup>3</sup>/day (Water sprinkling on haul road for dust suppression, plantation and drinking water)

Process: As the operation is mining of Bauxite by open cast method with shallow depth, therefore water is not required for processing.

Name of products	Process water consumption per unit of product output	
	During the previous financial year (2020-21)	During the current financial year (2021-22)
	(1)	(2)
Bauxite	Nil	Nil

Bauxite is a natural product. As such no water is required for processing.

**(1) Raw material Consumption**

Name of raw materials	Name of products	Consumption of raw material per unit of output	
		During the previous financial year(2020-21)	During the current financial year (2021-22)
Not Applicable	Bauxite	Nil	Nil

Since Bauxite is a natural product, it is produced by heavy-duty mining machinery. As such no raw material is required in mining process.

### **PART-C**

Pollutants discharge to environment/unit of output.  
(Parameters as specified in the consent issued)

(1) Pollutants	Quality of pollutants discharged (mass/day)	Concentrations of pollutants discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
(a) Water	No waste water discharge. Negligible amount of domestic waste water generated is being disposed off through septic tank.	Not applicable	Not applicable
(b) Air	Ambient air quality monitoring report is being submitted at your good office at the time of EC compliance report.		

Remarks: The limits are well below than the prescribed limit.

### **PART-D**

#### **HAZARDOUS WASTE**

(As specified under Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016)

Hazardous wastes	Total Quantity (Its)	
	During the previous financial year (2020-21)	During the current financial year (2021-22)
From process (Used/Spent oil)	1173 ltr	1040 ltr
(b) From pollution control facilities	Nil	Nil

Combined figure for Bagru, Bhusar and Hisri New mines.

## PART-E

### Solid Wastes

Solid wastes	Total Quantity	
	During the previous financial year (2020-21)	During the current financial year (2021-22)
(a) From process	10154.95 Cu.M	62837.68 Cu.M
(b) Form pollution Control facility	Nil	Nil
(c)(1) Quantity recycled or re-utilized within the unit.	Total over burden (OB) is being used in subsequent back filling.	Total over burden (OB) is being used in subsequent back filling.
(2) Sold	Nil	Nil
(3) Disposed	Nil	Nil

## PART-F

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

➤ Hazardous Waste

- 1) Used/Spent Oil –1040 ltr, Mines having proper storage & handling facility for used/spent oil. Used/spent oil generated from mining machineries is being stored at earmarked place in closed barrels provided with proper roofing and impervious flooring.
- 2) Solid Waste – 62837.68 Cu.M (Over burden, Utilization for reclamation)

## PART-G

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

Massive plantation programme has been carried out on reclaimed area in Bhusar Mines. Around 80% are fruit bearing and having medicinal value. Objective is to develop local economy, generate livelihood of local people. Product of specimen will have medicine value.

Conventional method of rock fragmentation by drilling & blasting has been improvised by controlled blasting technique using NONEL. This has substantially reduced ground vibration noise, dust and fly rock. Sewage treatment plant has been installed for domestic effluent treatment and it is working successfully.

#### **PART-H**

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

Plantation programme/biodiversity growth activity to continue in years to come.

#### **PART-I**

Any other particulars for improving the quality of the environment.

Hindalco, Mines Division is an ISO 14001:2004, ISO 9001:2008, OHSAS 9001:2007 & SA 8000:2008 certified company and under QEHS management system, every care is being taken to conserve and improve the natural environment in all its mines. QEHS (Quality Environment, Occupational Health & Safety) Management system implemented at all Mines of Hindalco and operational control procedures to prevent and control pollution are in practice.

Environmental training programme are conducted departmentally to generate awareness among masses to save environment.