

ADITYA BIRLA



**Ref:** HIL/LHD/ENV/JSPCB/ 910

**Date:** 26.09.2024

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

**Sub:** Environment Statement for Bagru Bauxite Mines (Area-75.41 ha) of M/s Hindalco Industries Limited, Lohardaga for the year 2023-24.

Dear Sir,

This has reference to Rule 14 of Environment Protection Act 1986. We are submitting herewith Environment Statement in prescribed Form V for Bagru Bauxite Mines (75.41 ha) of M/s Hindalco Industries Limited, Lohardaga for the financial year 2023-24.

Kindly acknowledge receipt for the same.

Thanking you,

Yours truly,  
For **M/s Hindalco Industries Limited**

**Basudev Gangopadhyay**  
**AVP (Planning, Environment & Compliance)**

**Encl:** As above

**CC:-**

1. The Regional Officer, Jharkhand State Pollution Board, Dhurwa, Ranchi.
2. The Deputy Director General of Forests (C), MoEF&CC, Integrated Regional Office, Ranchi.

**FORM-V**  
**(See Rule-14)**  
**Environment Statement for the financial year ending the 31st March 2024**

**PART-A**

(i)	Name & address of the owners/occupier of the industry/operation/ process	Bagru Bauxite Mines (75.41 ha) Hindalco Industries Limited Lohardaga -835302, Jharkhand
(ii)	Industry Category: Primary (STC code), Secondary (SIC code)	-
(iii)	Production Capacity	0.85 LTPA (Bauxite)
(iv)	Year of establishment	1948
(v)	Date of last environmental statement submitted	23-09-2023

**PART-B**

**Water & Raw Material Consumption**

**(i) Water Consumption (m<sup>3</sup>/day):**

Process	Nil
Industrial (Sprinkling for Dust Suppression, etc.)	Nil
Domestic (Drinking & Other)	6.0

**Process:** As the operation is mining of bauxite by the opencast method with shallow depth, therefore, water is not required in this mining process.

**Remarks:** No mining operation has been carried during the above period.

Name of Products	Process water consumption per unit of product output	
	During the previous financial year (2022 -23)	During the current financial year (2023-24)
Bauxite	Nil	Nil

Bauxite is a natural product. As such, no water is required in the mining process.

**(ii) Raw Material Consumption**

Name of raw materials	Name of products	Consumption of raw material per unit of output	
		During the previous financial year (2022-23)	During the current financial year (2023-24)
Not Applicable	Bauxite	Nil	Nil

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

### PART-C

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

Pollutants	Quality of pollutants discharged (mass/day)	Concentrations of pollutants discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
(a) Water	<p>No wastewater is generated from our mining operation.</p> <p>However, only a negligible amount of effluent is generated from the workshop of Bagru Group of Mines, and an ETP has already been installed for the treatment of this effluent. The treated water is in a closed circuit and is reused for washing vehicles in the workshop.</p> <p>A small quantity of domestic wastewater is also generated, which is treated in STP and is used for horticulture.</p> <p>The quality of ETP and STP treated water is being monitored regularly and the reports of the same are timely submitted to your good office.</p>		Not applicable
(b) Air	Air monitoring is being carried out regularly, and reports of the same are timely submitted to your good office.		Not applicable

**Remarks:** The Monitoring results are well within prescribed limit.

### PART-D

#### HAZARDOUS WASTE

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

Hazardous wastes	Total Quantity (Litre)	
	During the previous financial year (2022-23)	During the current financial year (2023-24)
(a) From process: Operation of Machines (Used/Spent Oil) *	1625 ltr	1750 ltr
(b) From pollution control facilities	Not applicable	Not applicable

**\*Remarks:** Combined figure for Bagru group of Mines (Bagru, Bhusar and Hisri New Mines)

## **PART-E**

### **Solid Wastes**

Solid wastes	Total Quantity (m <sup>3</sup> )	
	During the previous financial year (2022-23)	During the current financial year (2023-24)
(a) From process: Overburden (OB)	Nil	Nil
(b) Form pollution Control facility	Nil	Nil
(c) (1) Quantity recycled or re-utilized within the unit. (2) Sold (3) Disposed	Nil Nil Nil	Nil Nil Nil

**Remarks:** No mining operation has been carried during the above period.

## **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**

Total of 1750 litre of used/spent oil (Category 5.1) has been generated from Bagru group of mines & stored in closed barrels at an earmarked place with proper roofing and impervious flooring, and it is disposed of through JSPCB-authorized recyclers only.

➤ **Solid waste:** Nil, as no mining operations were carried out during the above period.

## **PART-G**

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

- A massive plantation program has been carried out on the reclaimed area of the Bagru group of mines. In this plantation program, we plant local species, including fruit-bearing plants and those with medicinal value, with the objective of developing the local economy and generating livelihood opportunities for the local community.

## **PART-H**

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

The plantation program and biodiversity growth activities will continue in the years to come.

## **PART-I**

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

The Bagru Bauxite Mine (75.41 Ha) comes under Hindalco Mines Division, Lohardaga, which is an ISO 14001:2015, ISO 9001:2008, OHSAS 18001:2007, and SA 8000:2008 certified company. Operating under a QEHS (Quality, Environment, Occupational Health & Safety) management system, all necessary measures are taken to conserve and improve the natural environment at all sites. The QEHS management system is implemented at all Hindalco Mines and Sidings, with operational control procedures in place to prevent and control pollution.

Environmental awareness and training programs are conducted to educate people on the importance of protecting the environment.