



Ref.: HIL/LHD/ENV/JSPCB/ 920

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 Kujam-I Bauxite Mine (80.87 Ha) of M/s Hindalco Industries Ltd. located in Gumla, Lohardaga, Jharkhand for the financial 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 Kujam-I Bauxite Mine (80.87 Ha) of M/s Hindalco Industries Ltd., Gumla, Jharkhand 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 31<sup>st</sup> March 2024**

**PART-A**

(i)	Name & address of the owners/ occupier of the industry/operation/ process.	Kujam-I Bauxite Mine (80.87 Ha) M/s Hindalco Industries Limited District Gumla, Jharkhand
(ii)	Industry Category: Primary (STC code), Secondary (SIC code)	-
(iii)	Production Capacity:	1.50 LTPA - (Bauxite)
(iv)	Year of establishment	2010
(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.)	9.1
Domestic (Drinking & Other)	2.1

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

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 variation of prescribed standards from 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, and an Oil &amp; grease trap system is already installed for the treatment of this effluent. The treated water is in a closed circuit and is reused for washing vehicles in the workshop. The quality of this treated water is being monitored regularly and the reports of the same are timely submitted to your good office.</p> <p>A negligible amount of domestic wastewater is also generated, which is collected in a septic tank and then followed by a soak pit.</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) *	4584 Litre	788 Litre
(b) From pollution control facilities	Not applicable	Not applicable

**\*Remarks:** Combined figure for Gurdari, Kujam I&II, Amtipani Mine and Amtipani Chirodih Mines i.e Netarhat Plateau.

## **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)	178,218.13 m <sup>3</sup>	230,445.46 m <sup>3</sup>
(b) Form pollution Control facility	Nil	Nil
(c) (1) Quantity recycled or re-utilized within the unit.	Overburden is being used for concurrent backfilling	Overburden is being used for concurrent backfilling
(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:**

Total of 788 litre of used/spent oil (Category 5.1) has been generated & 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:** Total 230,445.46 m<sup>3</sup> Overburden (OB) has been generated and utilized for Concurrent backfilling.

## **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 mine. 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.
- Water Sprinkling is being carried out by mobile water tanker

## **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 Kujam-I Bauxite Mine (80.87 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.