Ref: HIL/LHD/ENV/JSPCB/**325** **Date:** 25.09.2025

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

Sub: Submission of Environment Statement Report for Serangdag Bauxite Mine (Area-77.89 ha) of M/s Hindalco Industries Limited, located in Gumla, Jharkhand, for the year 2024-25.

Dear Sir,

This has reference to Rule 14 of Environment Protection Act 1986. We are submitting herewith Environment Statement Report in the prescribed **Form-V** for Serangdag Bauxite Mine (Area-77.89 ha) of M/s Hindalco Industries Limited, Gumla for the financial year 2024-2025.

Kindly acknowledge receipt for the same.

Thanking you,

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

Anand Tiwari
Assistant Manager (Environment & Compliance)

Encl: As Above

CC: -
1. The Regional Officer, Jharkhand State Pollution Board, Dhurwa, Ranchi
2. The Deputy Director General of Forest (C), MoEFCC, Integrated Regional Office, Ranchi

Hindalco Industries Limited
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FORM-V
(See Rule-14)

Environment Statement for the financial year ending the 31st March 2025

PART-A

(i)	Name & address of the owners/occupier of the industry/operation/ process	Serangdag Bauxite Mine (77.89 ha) M/s Hindalco Industries Limited, District Gumla, Jharkhand
(ii)	Industry Category: Primary (STC code), Secondary (SIC code)	-
(iii)	Production Capacity:	1.00 LTPA (Bauxite)
(iv)	Year of establishment	2008
(v)	Date of last environmental statement submitted	26-09-2024

PART-B
Water & Raw material Consumption

(i) Water Consumption (m^3/day):

Process	Nil
Industrial (Sprinkling for Dust Suppression, etc.)	3.59
Domestic (Drinking & Other)	2.49

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 (2023-24)	During the current financial year (2024-25)
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 (2023-24)	During the current financial year (2024-25)
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	No wastewater is generated from our mining operation. However, only a negligible amount of effluent is generated from the workshop and an Oil & grease trap system is already installed for the treatment of this effluent. The treated water is in closed circuits and being reused for washing vehicles in the workshop. The quality of this treated water is monitored regularly and the reports of the same are submitted to your good office. A negligible amount of domestic wastewater is also generated, which is collected in a septic tank and then followed by a soak pit.		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 (Litres)	
	During the previous financial year (2023-24)	During the current financial year (2024-25)
(a) From process: Operation of Machines (Used/Spent Oil) *	405 ltr	675 ltr
(b) From pollution control facilities	Not applicable	Not applicable

***Remarks: -** Combined figure of Shrengdag (155.81 ha), Serangdag (77.89 ha), and Jalim-Sanai Bauxite Mines, i.e., the Shrengdag Group of Mines

PART-E
Solid Wastes

Solid wastes	Total Quantity (m^3)	
	During the previous financial year (2023-24)	During the current financial year (2024-25)
(a) From process: Overburden (OB)	193,292.92 m^3	142,423.49 m^3
(b) Form pollution Control facility	Nil	Nil
(c) (1) Quantity recycled or re-utilized within the unit. (2) Sold (3) Disposed	Overburden is being used for concurrent backfilling Nil Nil	Overburden is being used for concurrent backfilling 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 675 litre of used/spent oil (Category 5.1) has been generated from the Shrengdag 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:** Total 142423.49 m^3 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:

- Plantation programme has been carried out along the periphery of the premises. During FY 2024-25, a total of 2810 nos. saplings have been planted within mining lease. Cumulative 6.47 ha areas have been planted till date

- 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 Serangdag Bauxite Mine (77.89 Ha) comes under Hindalco Mines Division, Lohardaga, which is an ISO 14001:2015, ISO 9001:2008, and ISO 45001:2018, 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, 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.