

o/c
MINERALS & MINERALS LIMITED

Regd. Office- Court Road, P.O. & Distt.-Lohardaga, Jharkhand-835302

Tel.-06526-223163

CIN NO. U26990JH1970PLC000875

Ref. :

Date

M&M/LHD/ENV/PAK 109.507/JSPCB/266

Date: 29.09.2021

To

The Member Secretary

Jharkhand State Pollution Control Board

TA building, Ground floor

HEC Complex, PO Dhurwa

Ranchi-834003

Sub: Environment Statement for Pakhar Bauxite Mines (Area-109.507 ha) of M/s Minerals & Minerals Limited, Lohardaga for the year 2020-21.

Sir,

This has reference to Rule 14 of Environment Protection Act 1986. We are submitting herewith Environment Statement in prescribed Form V for Pakhar Bauxite Mines (Area-109.507 ha) of M/s Minerals & Minerals Limited, Lohardaga for the financial year 2020-21.

Kindly acknowledge receipt for the same.

Thanking you,

Yours truly,

For **M/s Minerals & Minerals Limited**



Basudev Gangopadhyay
Sr GM (Geology & Environment)



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.



(FORM-V)
(See Rule-14)

Environment Statement for the financial year ending the 31st March 2021

PART-A

(i)	Name & address of the owners/occupier of the industry/operation/ process	Pakhar Bauxite Mines (109.507 ha) Minerals & Minerals Limited Lohardaga -835302, Jharkhand
(ii)	Industry Category: Primary (STC code), Secondary (SIC code)	-
(iii)	Production Capacity :	2.80 LTPA (Bauxite)
(iv)	Year of establishment	2011
(v)	Date of last environmental statement submitted	26.09.2020

PART-B

Water & Raw material Consumption

Water Consumption (m³/day): 13.5 m³/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 (2019-20)	During the current financial year (2020-21)
	(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 (2019-20)	During the current financial year (2020-21)
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 (lts)	
	During the previous financial year (2019-20)	During the current financial year (2020-21)
From process (Used/Spent oil)	3986 ltr	514 ltr
(b) From pollution control facilities	Nil	Nil

Combined figure for Pakhar group of Mines.

PART-E

Solid Wastes

Solid wastes	Total Quantity	
	During the previous financial year	During the current financial

	(2019-20)	year (2020-21)
(a) From process	329606.67 Cu.M	354455.32 Cu.M
(b) Form pollution Control facility	Nil	Nil
(c)(1) Quantity recycled or re-utilized within the unit. (2) Sold (3) Disposed	Total over burden (OB) is being used in subsequent back filling. Nil Nil	Total over burden (OB) is being used in subsequent back filling. 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 – 514 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 – 354455.32 Cu.M (over burden, i.e. soil, morrum and laterite, utilized 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 Pakhar Plateau. Around 80% are having medicinal value and green canopy. 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.

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.

M/s Minerals & Minerals is an subsidiary of 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.