

**MCDR INSPECTION REPORT FOR THE PERIOD OF 2024-25**

1) Name of Inspecting officer:	Mr. Vikrant Khedikar
2) Designation	Senior Assistant controller of mines
3) Accompanying mine official with designation	Mr. Tapas Kumar Gachhayat (AGM- Geology)  Mr Pradeep Bhalekar (Head- Netarhat Cluster)  Vangalapudi Kumar (Mines Manager)  Amit Kumar Pradhan (Assistant Manager- Geology)
4) Date of Inspection	21/06/2024

Sl. No.	Particulars	Details
1.	Name of the Mines	Kujam II Bauxite Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease area :- 157.38 Ha Forest land: - Nil
3.	Mine code	07JHK09005
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/935/2011
5	Name of the lessee, Address, Phone, email and fax number	M/s Hindalco Industries Limited Court Road, P.O.: -Lohardaga District : -Lohardaga State: - Jharkhand PIN: -835 302 Phone No.: - 06526-224015, 224016, 224446. Fax No.06526-24112
6	Village	Kujam, & Chirodih
7	Taluka/Mandal	Bishunpur
8	District	Gumla
9	Pin code	835218
10	State	Jharkhand
11	Post Office	Jobhipat
12	Nearest Police Station	Gurdari
13	Nearest Railway station	Lohardaga
14	Date of Grant of Mining Lease	19.08.2005
15	Date of Execution	24.03.2006
16	Date of Opening of Mine	18.03.2009

17	Date of First Renewal, if applicable and its period & expiry	NA lease is extended up to 23.03.2056 as per MMD(Amendment) Act 2015. Supplementary lease deed added with conditions.
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email ,fax number and date of appointment	Sri A.K.Agarwala, Haveli, Flat No 3, LD Ruparel Marg, Mumbai 400026 Email: ak.agarwala@adityabirla.com Phone No. 022- 62660631/66626666 Date of appointment: 10.11.2015
21	Name of the Mine Agent with Address, phone email, fax number and date appointment in mines.	Mr. Prateek Kumar Hindalco Colony., Court Road, Lohardaga PIN: 835302 Phone:- 7738368627 Fax : 06526-24112 <a href="mailto:prateek.kumar@adityabirla.com">prateek.kumar@adityabirla.com</a> Date of appointment: 04.08.2022
22	Name of the Mines Manager with Address, Phone, email, fax number and date of appointment	Mr. Jitendra Kumar Sahoo Hindalco colony, Court Road, Lohardaga, PIN: 835302 <a href="mailto:jitendra.sahoo@adityabirla.com">jitendra.sahoo@adityabirla.com</a> Phone:-9937701861 Date of appointment:-04.05.2023
23	Name of the mining engineer, qualification and total experience with Address, phone, email, fax number and date of appointment in Mines.	Mr. Jitendra Kumar Sahoo Hindalco colony, Court Road, Lohardaga, PIN: 835302 <a href="mailto:jitendra.sahoo@adityabirla.com">jitendra.sahoo@adityabirla.com</a> Phone: -9937701861 Date of appointment: -04.05.2023 Total Experience: - 6 years
24	Whether Geologist and Mining Engineer appointed in Mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Geologist :- Mr. Shubham Kumar Date of appointment: - 28.07.2022 Mr. Jitendra Kumar Sahoo Date of appointment:- 04.05.2023
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Approval of Mining Plan: 28.03.2024 Plan period 2024-25 to 28-29  Letter no - RAN/GUM/BXT/ROMP-7/2023-24

26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	<b>Modified Mining Plan</b> Date of Approval 22.07.2011 Plan period 2011-12 to 2013-14 <b>Scheme of mining</b> Date of Approval 21.11.2014 Plan period 2014-15 to 2018-19 <b>Review mining Plan</b> Date of Approval 18.02.2019 Plan period 2019-20 to 2023-24 <b>Modification in approved MP</b> Plan period 2022-23-2023-24 <b>Review mining Plan</b> Date of Approval Plan period 2024-25 to 28-29
27	Mineral(s) granted in lease and proved for mining	Bauxite
28	Method of Mining(Open cast, Underground)	Open cast
29	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
30	Captive/Non Captive	Captive

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

Sl.No	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
1a	Backlog of previous year	NA	NIL	Explored under G1
1b	Exploration over lease area for Geological axis 1 or 2.	NA	NA	
1c	Exploration Agency & Expenditure in lakh Rupee during the year	NA	NA	--
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	-	--
1e	Balance reserves as on 01.04.2024	NA	1527427 tonnes	
1f	General remarks of inspecting officer on geology, exploration etc.		-	

**Development**

Sl.No	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
2a	Location of development w.r.t lease area	Quarry -Bhattipat Quarry - 195 Quarry - 223	Quarry -Bhattipat Quarry - 195 Quarry - 223	Land Acquisition of 223 and 195 was under process for the proposal done in 23-24
2b	Separate benches in top soil, overburden and mineral (Rule 15)	Yes	Yes	2024-25-Mining Plan Vide letter No. RAN/GUM/BXT/ROMP-7/2023-24 Dated 28/03/2024. During inspection quarry Namely Quarry-4A between coordinates 23deg 18 Min 09.9 Sec North & 84 Deg 17Min 37.9 Sec to 23Deg 18Min 13.6 sec & 84Deg 17Min 39.8 Sec, no separate benches in ore and overburden have been made to avoid mixing of waste with the Bauxite Ore. (Proposal Year 2024-25). Violation Issued
2c	Stripping ratio or ore to OB ratio	1:0.91 (Tonnes :Cum)	1:0.97 (Tonnes :Cum)	OB generation is slightly high
2d	Quantity of topsoil generation in m <sup>3</sup>	154115 M3	86945 M3	
2e	Quantity of overburden generation in m <sup>3</sup>	117787 m3	39233 m3	OB quantity has been reduced as the Quarry 223 and part of 195 Quarry was not operational in 23-24 as land acquisition was pending.
2f	General remarks of inspecting officer on development etc.		During Inspection Quarry Bhattipat and Quarry 195 (Partly) was backfilled post mining.	But during inspection quarry Namely Quarry-4A between coordinates 23deg 18 Min 09.9 Sec North & 84 Deg 17Min 37.9 Sec to 23Deg 18Min 13.6 sec & 84Deg 17Min 39.8 Sec, no separate benches in ore and overburden have been made to avoid mixing of waste with the Bauxite

**Exploitation**

<b>Sl.No</b>	<b>Item</b>	<b>Proposal (2023-24)</b>	<b>Actual Work (2023-24)</b>	<b>Remarks</b>
3a	Number of pits proposal for production	4	3	
3b	Quantity of ROM mineral production proposed	299663 Tonnes	127110 Tonnes	Production is less due to problem in land acquisition
3c	Recovery of salable/usable mineral from ROM production	70%	100%	
3d	Quantity of mineral reject generation	89899 Tonnes	NIL	
3e	Grade of mineral reject generation and threshold value declared	-	Al <sub>2</sub> O <sub>3</sub> – 19.83 & SiO <sub>2</sub> – 8.55%	
3f	Quantity of sub-grade mineral generation	NA	NIL	
3g	Grade of sub-grade mineral generation	NA	NIL	
3h	Manual/Mechanized method adopted for segregating from ROM	Manual	Manual	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NA	NA	
3j	Provision of drilling & blasting in mineral benches	Yes	Yes	In mineral Benches
3k	Provision of mining machineries in mineral benches	Yes	Yes	Fully Mechanized

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes		Yes		
3m	Total area covered under excavation/pits	Mining – 3.90 Ha		Mining – 2.95 ha		
3n	Ore to OB ratio for the pit/mine during the year	1.40		1.80		
3o	Total area put in use under different heads at the end of year	Mining	3.90 Ha	Mining	2.95 ha	
		Waste Dump	0 ha	Waste Dump	0 ha	
		Mineral Beneficiation Plant	0 ha	Mineral Beneficiation Plant	0 ha	
		Mineral Storage	0 ha	Mineral Storage	0 ha	
		Tailing Pond	0 ha	Tailing Pond	0 ha	
		Roads, Conveyors, pipeline, electric line	ha	Roads, Conveyors, pipeline, electric line	ha	
		Infrastructure	0 ha	Infrastructure	0 ha	
		Township	0 ha	Township	0 ha	
		Topsoil	0.52 ha	Topsoil	0 ha	
		Effluent Treatment Plant	0 ha	Effluent Treatment Plant	0 ha	
		Others (Rainwater harvesting, Back Filling Area1)	0.39 ha	Others (Rainwater harvesting, Back Filling Area-1)	0.39 ha	
		Green Belt	2.82 ha	Green Belt	1.82 ha	
3p	Production of ROM mineral during last five-year period, as applicable	2019-20	299293 MT	2019-20	80395 MT	
		2020-21	299223 MT	2020-21	136158 MT	
		2021-22	299530 MT	2021-22	223185MT	
		2022-23	209522 MT	2022-23	209522 MT	
		2023-24	209764 MT	2023-24	127110 MT	
3q	General remarks of inspecting officer on method of mining etc.					

### **Solid Waste Management-Dumping**

Sl.No	Item	Proposal (2023-24)	Actual Work(2023-24)	Remarks
4a.	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Soil and OB will be used for reclamation of the backfilled quarry	Soil and OB will be used for reclamation	

			of the backfilled quarry	
4b	Location of topsoil, & OB & mineral reject dumps (Give coordinates with mRL)	No dumps	Backfilling concurrently	
4c	Number of dumps within lease area and outside lease area	NA	NA	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	
4e	Number of active & alive dumps	NA	NA	
4f	Number of dead dumps	NIL	NIL	
4g	Number of dumps stabilized	NA	NA	
4h	Whether Retaining wall or garland drain all along dumps are there	NIL	NIL	
4i	Length of Retaining wall or garland drain all along dump	NA	NA	
4j	Number of settling ponds	NA	NA	
4k	Specific comments of inspecting officer on waste dump management	NA	NA	

#### **Solid Waste Management-Backfilling**

Sl.No	Item	Proposal (2023-24)	Actual Work (2023-24)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Proposed	Fully extracted & reclamation is being carried out	Backfilling is been done after exhaustion of Bauxite from the Quarry.
5b	Area under backfilling of mined out area	3.90 ha	2.95 ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 35)	154115 M3	86945 M3	
5d	Total area fully reclaimed & rehabilitated	3.90 Ha	2.80 Ha	
5e	General remarks of inspecting officer on backfilling, reclamation etc.			Land Acquisition of 223 and 195 was under process for the proposal done in 23-24.

**Progressive Mine Closure Plan**

Sl.No	Item	Proposal (2023-24)	Actual Work (2023-24)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 23E(2). Details should be given in the format as given in Annexure-20	Annual Report on PMCP to be submitted in time.	Annual Report on PMCP submitted in time along with Annual Return.	As per management annual return will be submitted within the stipulated time.
6b	Management of worked/mined out benches  i) Area available for rehabilitation (ha)  ii) Afforestation done (ha)  iii) No. of sapling planted during the year  iv) Cumulative no. of plants  v) Any other specific method of rehabilitation  vi) Cost incurred on watch & care during the year	  NA  NA  NA  NA  NA  NA	  NA  NA  NA  NA  NA	
6c	Compliance on reclamation and rehabilitation by back filling  i) Voids available for backfilling (LxBxD)  ii) Void filled by waste/tailings  iii) Afforestation on the backfilled area  iv) Rehabilitation by making water reservoir	462332 M3  4.07 Ha  No proposal, 7.5 Mtr Barrier and road barrier 2.82 Ha  Nil  Nil	319816 M3  2.95 Ha (Waste) 2.10 Ha  NIL  NIL	



	v) Any other specific means			
6d	Compliance of Rehabilitation of waste land within lease  i) Afforestation  ii) Area rehabilitated (ha)  iii) Method of rehabilitation	1375  2.82  Plantation	5000  2.82  Plantation	Included previous years backlog area based on the demand of the landowners.
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring to be done	Environmental monitoring of Air, Noise & Water in core & buffer zones are done at regular intervals	
6f	General remarks of inspecting & progressive closure operations.			Survival rate was 60% within mining lease which can be improved.

### Mineral Conservation

Sl.No	Item	Proposal (2023-24)	Actual Work (2023-24)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	yes	Yes	Grade wise stack
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	manual	manual	
7c	Different grade of mineral sorted out at mines	Yes	Yes	
7d	Any beneficiation process at mines	NA	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues			Entire ROM is sorted and sized in off the pit which is then transported to the captive plant. 127100

				MT production has been achieved during the year 2023-24
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**Environment**

Sl.No	Item	Proposal (2023-24)	Actual Work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes	
8b	Concurrent use or storage of topsoil	Concurrent use	Concurrent use	Concurrent use
8c	Separate dumps for overburden, waste rock rejects and fines (Rule 33)	NA	NA	all overburden and then soil is backfilled in mined-out areas
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	all overburden is backfilled in mined-out areas
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	All overburden will be backfilled in mined-out areas, soil will be spread for reclamation.	All overburden is being backfilled in mined-out areas; soil also is being spread for reclamation.	
8f	Baseline information on existence of plantation & additional plantation done (Rule 42)	Yes	Yes	
8g	Survival rate	60%	60%	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area.			

**Compliance of Rule 45**

Sl.No	Item	COMMENTS	Remarks
9a	Status of submission of Monthly and Annual returns		Monthly Returns Submitted within the

Sl.No.	Item			stipulated time. Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	-	Pending with Lessee	Lessee declared that annual returns will be submitted within the stipulated time
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	-	Pending with Lessee	
9d	Scrutiny of Annual return on afforestation	-	Pending with Lessee	Lessee declared that annual returns will be submitted within the stipulated time
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	-	Pending with Lessee	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	-	Pending with Lessee	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost.	-	Pending with Lessee	
9h	Scrutiny of Annual return on fixed assets	-	Pending with Lessee	
9i	Scrutiny of Annual return on mining machineries	-	Pending with Lessee	

**Details of violations observed during current inspection and compliance position of violation pointed.**

1. Violation observed: - MCDR- 2017 Rule 11(1) and issued on date 25/06/2024.

Vikrant Khedikar,  
Sr. Assistant controller of Mines,  
27<sup>th</sup> June 2024