

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. Pradeep Bhalekar (Head – Netarhat Cluster) Mr. Tapas Kumar Gachhayat (AGM – Geology) Mr. Yogendra Lihare (Mines – Manager)
4) Date of Inspection	21/06/2024

Sl. No.	Particulars	Details
1.	Name of the Mines	Amtipani Bauxite Mines
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Raiyati Land – 190.13 Ha GM - 0.82 Ha. Total - 190.95 Ha. (Forest Land-0Ha, Non forest Land – 190.95Hs.
3.	Mine code	07JHK09003
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, Lohardaga-835302
6	Village	Amtipani, Gurdari & 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	13 th March 2006
15	Date of Execution	13 th March 2006
16	Date of Opening of Mine	15 th December 2007
17	Date of First Renewal, if applicable and its period & expiry	Not Applicable
18	Date of second Renewal, if applicable and its period & expiry	Not Applicable
19	Date of submission of renewal application if Mining operations are continuing under deemed extension	Not Applicable

20	Name of the Nominated Owner with Address, phone, email ,fax number and date of appointment	A K Agarwala Havely, 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.	Prateek Kumar Hindalco Colony., Court Road, Lohardaga PIN: 835302 Phone:- 06526 – 224015 Fax : 06526-24112 prateek.kumar@adityabirla.com Date of appointment: 04.08.2022
22	Name of the Mines Manager with Address, Phone, email, fax number and date of appointment	Yogendra Kumar Lilhare Address – Amtipani Bauxite Mines, Hindalco Industries Ltd. P.O.- Jobhipat, Tah- Bishunpur Distt – Gumla (Jharkhand) 835218 Date of Appointment – 21.05.2021
23	Name of the mining engineer, qualification and total experience with Address, phone, email, fax number and date of appointment in Mines.	Yogendra Kumar Lilhare Qualification – B.E. (Mining), 22 Year experience Address – Amtipani Bauxite Mines, Hindalco Industries Ltd. P.O.- Jobhipat, Tah- Bishunpur Distt – Gumla (Jharkhand) 835218 Date of Appointment – 21.05.2021
24	Whether Geologist and Mining Engineer appointed in Mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	03/08/2021 (2020-21 to 2024-25) & 10/04/2023 (2023-24 to 2024-25)
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	11/08/2015 (2015-16 to 2019-20)
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	NIL	NIL	
1b	Exploration over lease area for Geological axis 1 or 2.	NIL	NIL	
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	NA	
1e	Balance reserves as on 01.04.2024	NA	2987140 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 no – 1F (N2583890, E219340 to N2583990, E219460) Quarry no – 7C (N2582700, E220015 to N2583000,E220380)	Quarry no – 1F (N2583890, E219340 to N2583990, E219460) Quarry no – 7C (N2582700, E220015 to N2583000,E220380)	
2b	Separate benches in top soil, overburden and mineral (Rule 15)	Topsoil: 1 Overburden :1 Mineral : 1	Topsoil: 1 Overburden :1 Mineral : 1	
2c	Stripping ratio or ore to OB ratio	1: 2.024	1:1.72	
2d	Quantity of topsoil generation in m ³	248785	85655	
2e	Quantity of overburden generation in m ³	92563	171309	
2f	General remarks of inspecting officer on development etc.			

Exploitation

Sl.No	Item	Proposal(2023-24)	Actual Work(2023-24)	Remarks
3a	Number of pits proposal for production	2	2	
3b	Quantity of ROM mineral production proposed	187432 T	149300 T	
3c	Recovery of salable/usable mineral from ROM production	80%	100%	
3d	Quantity of mineral reject generation	37486 Tonnes	0	
3e	Grade of mineral reject generation and threshold value declared	-	Al ₂ O ₃ – 19.83 & SiO ₂ – 8.55%	
3f	Quantity of sub-grade mineral generation	NA	0	
3g	Grade of sub-grade mineral generation	NA	0	
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	Deep hole blasting (115mm dia) Burden X Spacing (3.5m X 3m)	Deep hole blasting (100mm dia) Burden X Spacing (2.5m X 3m)	
3k	Provision of mining machineries in mineral benches	HEMM	HEMM	
3l	Whether height of benches in overburden and mineral suitable for method of mining	Yes	Yes	

	proposed in MP/SOM				
3m	Total area covered under excavation/pits	Mining – 4.76 ha		Mining – 4.76 ha	
3n	Ore to OB ratio for the pit/mine during the year	1:2.024		1:1.72	
3o	Total area put in use under different heads at the end of year	Mining	4.76 Ha	Mining	4.76 Ha
		Waste Dump	0 Ha	Waste Dump	0.000 Ha
		Mineral Beneficiation Plant	0 Ha	Mineral Beneficiation Plant	0.000 Ha
		Mineral Storage	0 ha	Mineral Storage	0.000 ha
		Tailing Pond	0 Ha	Tailing Pond	0.000 Ha
		Roads, Conveyors, pipeline, electric line	0 ha	Roads, Conveyors, pipeline, electric line	0 ha
		Infrastructure	0 ha	Infrastructure	0 ha
		Township	0 ha	Township	0.000 ha
		Topsoil	0 ha	Topsoil	0.000 ha
		Effluent Treatment Plant	0 ha	Effluent Treatment Plant	0.000 ha
		Others (Magazine, Rainwater harvesting, Back Filling Area1)	0 ha	Others (Magazine, Rainwater harvesting, Back Filling Area-1)	0.000 ha
		Green Belt	1 Ha	Green Belt	1.07 ha
3p	Production of ROM mineral during last five-year period, as applicable	2019-20	169731 MT	2019-20	59995 MT
		2020-21	297576 MT	2020-21	128890 MT
		2021-22	149344 MT	2021-22	149000 MT
		2022-23	149914 MT	2022-23	149200 MT
		2023-24	187432MT	2023-24	149300 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	NIL	NIL	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	
4e	Number of active & alive dumps	NIL	NIL	
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	NA	NA	
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			

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	4.763 ha	2.15 ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 35)	248785 M3	85655 M3	Violation Issued
5d	Total area fully reclaimed & rehabilitated	2.15 ha	2.15 ha	
5e	General remarks of inspecting officer on backfilling, reclamation etc.			Referring to page 97, Para 6.2 "Progressive mine closure plan" of approved Modified Mining Plan during inspection of

			quarry 7C it was found that mining operations and backfilling were being carried out simultaneously which is not in accordance with the sanctioned modified mining plan. The benches formed during backfilling shall be so arranged that so as to avoid mixing of waste /dump material with the ore or minerals dumped for sorting
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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)	NA	NA	
	ii) Afforestation done (ha)			
	iii) No. of sapling planted during the year	NA	NA	
	iv) Cumulative no. of plants			
	v) Any other specific method of rehabilitation	NA	NA	
		NA	NA	
	vi) Cost incurred on watch & care during the year	NA	NA	

			-	
6c	Compliance on reclamation and rehabilitation by back filling			
	i) Voids available for backfilling (LxBxD)	47630 M3	21500M3	
	ii) Void filled by waste/tailings	2.15 ha.	2.15 ha	
	iii) Afforestation on the backfilled area	1 Ha	1.07 Ha	
	iv) Rehabilitation by making water reservoir	0.67 Ha	0.67 Ha	
	v) Any other specific means	--	--	
6d	Compliance of Rehabilitation of waste land within lease			
	i) Afforestation	2500 nos.	2000 nos.	
	ii) Area rehabilitated (ha)	1 Ha	1.07 Ha	
	iii) Method of rehabilitation	Plantation	Plantation	
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	NA	NA	
7d	Any beneficiation process at mines	NIL	NIL	
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. 149300 MT production has been achieved during the year 2023-24

Environment

Sl.No	Item	Proposal (2023-24)	Actual Work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	Concurrently spreading over the backfilled	Violation Issued
8b	Concurrent use or storage of topsoil	Concurrent backfilling	Concurrent backfilling	Concurrent backfilling
8c	Separate dumps for overburden, waste rock rejects and fines (Rule 33)	NA	NA	All overburden is backfilled in mined out areas
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	OB and waste rock used for restoring the land to its original use.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	All overburdens 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	Water sprinkling on roads to control

				airborne dust is done regularly.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area.			Referring to page 97, Para 6.2 “Progressive mine closure plan” of approved Modified Mining Plan during inspection of quarry 7C it was found that mining operations and backfilling were being carried out simultaneously which is not in accordance with the sanctioned modified mining plan. The benches formed during backfilling shall be so arranged that so as to avoid mixing of waste /dump material with the ore or minerals dumped for sorting. Surrounding area beyond lease area is green. The aesthetic beauty around mines can be improved by gap plantation.

Compliance of Rule 45

Sl.No	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns			Monthly Returns Submitted within the stipulated time.
Sl.No.	Item			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	
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), issued on date 25/06/2024.

Vikrant Khedikar,
Sr. Assistant controller of Mines,
27th June 2024