

MCDR INSPECTION REPORT FOR THE PERIOD OF 2023-24

1) Name of Inspecting officer:	Mr. Vikrant Khedikar
2) Designation	Senior Assistant controller of mines
3) Accompanying mine official with designation	Rajesh Ranjan Ambastha – G.M-Mines Tapas Kr. Gachhayat – AGM- Geology Gauri Shankar Prasad- Assistant Manager-Geology Sunil Kr. Chaudhary- Assistant Manager- Mines
4) Date of Inspection	05/09/2024

Sl. No.	Particulars	Details
1.	Name of the Mines	Hisri New Bauxite Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	1. Total-14.55 Ha. 2. Forest – 4.47 Ha. 3. Non- Forest - 9.85 Ha. 4. GM land - 0.23 ha.
3.	Mine code	07JHK12011
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 Ltd. At & P.O. - Court Road, Lohardaga Dist. Lohardaga, Jharkhand -835 302 Phone - 06526-224015, 224016, 224446 Fax- 06526-24112
6	Village	Hisri New
7	Taluka/Mandal	Kisko
8	District	Lohardaga
9	Pin code	835302
10	State	Jharkhand
11	Post Office	Bagru
12	Nearest Police Station	Bagru
13	Nearest Railway station	Lohardaga
14	Date of Grant of Mining Lease	19.07.1966
15	Date of Execution	28.08.1984
16	Date of Opening of Mine	1.04.2014
17	Date of First Renewal, if applicable and its period & expiry	19.07.1981 for 15 years up to 18.07.1996
18	Date of second Renewal, if applicable and its period & expiry	07.07.1995 FOR TWENTY YEARS
19	Date of submission of renewal application if Mining operations are continuing under deemed extension	(26.05.2017 & valid Up to 31.03.2030)

20	Name of the Nominated Owner with Address, phone, email ,fax number and date of appointment	Shri A.K. Agarwala (10s/11/2015) M/s Hindalco industries Ltd. At & P.O. - Court Road, Lohardaga Dist. Lohardaga, Jharkhand -835 302 Phone - 06526-224015, 224016, 224446 Fax- 06526-24112
21	Name of the Mine Agent with Address, phone email, fax number and date appointment in mines.	Shri Prateek Kumar (4.8.2022) M/s Hindalco industries Ltd. At & P.O. - Court Road, Lohardaga Dist. Lohardaga, Jharkhand -835 302 Phone - 06526-224015, 224016, 224446Prateek.kumar@adityabirla.com
22	Name of the Mines Manager with Address, Phone, email, fax number and date of appointment	Shri Raj Kumar Sinha 26.05.2022 M/s Hindalco Industries Ltd Bagru Hill Bauxite Mines Dist- Lohardaga, Jharkhand- 835302 raj.k.sinha@adityabirla.com Phone No- 9430317900
23	Name of the mining engineer, qualification and total experience with Address, phone, email, fax number and date of appointment in Mines.	Shri Raj Kumar Sinha Qualification: B. Tech (Mining Engineer)Appointment/Termination date: 26.05.2022
24	Whether Geologist and Mining Engineer appointed in Mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	YES Shri Basudev Gangopadhyay Qualification: M.Tech (Geology) Appointment/Termination date: 01.11.2017
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	1. Mining Plan - 314(3)/2005-MCCM(C Z)/MP-25, Date:- 20/05/2006, from 01/04/2005 to 31/03/2010. 2. Modification of mining plan - 314(3)/2010-MCCM(C Z)/MP-3, Date: - 06/10/2010, From 01/04/2005 to 31/03/2010 3. Scheme of mining - 314(3)/2010-MCCM(C Z)/S-7, Date:- 06/10/2010, From 01/04/2010 to 31/03/2015. 4. Modification of mining plan - RAN/LOH/BX/MP-05/ 2015-16, Dare: - 23/12/2015, 01/04/2015 to 31/03/2020. 5. Review of mining plan - RAN/LOH/BX/MP-24// 2019-20, Date 19/03/2020, From 01/04/2020 to 31/03/2025.
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	1. RAN/LOH/BXT/ROMP-5/2023-24, Dated - 07/12/2023, from 2023-24 to 2024-25
27	Mineral(s) granted in lease and proved for mining	Bauxite
28	Method of Mining(Open cast, Underground)	opencast
29	Category (Fully Mechanized, Others or Manual)	A '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.)

Sr.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	Nil	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserves as on 01.04.2024	NA	519872 Tonne	
1f	General remarks of inspecting officer on geology, exploration etc.		-	From 01/04/1970 to 31/03/1972 – 90 Nos boreholes were drilled, 1513 Meters, In Area covered in exploration G1 – 14.55 Ha.

Development

Sr.NO	Item	Proposals (2023-24)	Actual work(2023-24)	Remarks
2a	Location of development w.r.t lease area	Quarry-1 2598652N-2598842N 253398E-253592	Quarry-1 2598652N-2598842N 253398E-253592	
2b	Separate benches in top soil, overburden and mineral (Rule 15)	Soil & Morrum-1 Laterite-2mtr OB – 2 H- 3.97 Ore-2 H – 4.9mtr	Soil & Morrum- 1 H-1.5mtr OB – 2 H-2.5 mtr Ore-2 H – 3.5 mtr	As per approved DGMS norms.
2c	Stripping ratio or ore to OB ratio	1:0.63	1:0.67	
2d	Quantity of topsoil generation in m ³	18060	22451	
2e	Quantity of overburden generation in m ³	5314	32568	
2f	General remarks of inspecting officer on development etc.		Concurrent backfilling is practiced after excavation.	

Exploitation

Sr.NO	Item	Proposal (2023-24)	Actual Work (2023-24)	Remarks
3a	Number of pits proposal for production	1	1	
3b	Quantity of ROM mineral production proposed	104940	98807	
3c	Recovery of salable/usable mineral from ROM production	99120	98807	
3d	Quantity of mineral reject generation	5820	Nil	
3e	Grade of mineral reject generation and threshold value declared	Nil	Nil	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade mineral generation	Nil	Nil	
3h	Manual/Mechanized method adopted for segregating from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Nil	Nil	
3j	Provision of drilling & blasting in mineral benches	Regulation 106(2)(b), 100 mm dia drilled by Crawler Mounted Drill NONEL,ANFO,EMULBUST,DET ONATING FUSE & ED	Regulation 106(2)(b), 100 mm dia drilled by Crawler Mounted Drill NONEL,ANFO,EMULBUST,DET ONATING FUSE & ED	
3k	Provision of mining machineries in mineral benches	Regulation 1961 shovel Dumper Combination Air Compressor Crusher	Regulation 1961 shovel Dumper combination Air Compressor Crusher	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Soil & Morrum-1 Laterite-2 OB - 2 H- 3.97 Mtr Ore-2 H - 4.9 Mtr	Soil - 1 H-1.5mtr OB - 2 H-2.5 Mtr Ore-2 H - 3.5 Mtr	6 Meter height of bench is maintained.
3m	Total area covered under excavation/pits	Mining -0.80 ha	Mining - 0.79 ha	
3n	Ore to OB ratio for the pit/mine during the year	1:0.9	1:1.02	

3o	Total area put in use under different heads at the end of year	Mining	4.83	Mining	7.914ha	
		Waste Dump	0.00ha	Waste Dump	0.00ha	
		Mineral Beneficiation Plant	0.00ha	Mineral Beneficiation Plant	0.00 ha	
		Mineral Storage	0.00ha	Mineral Storage	0.00ha	
		Tailing Pond	0.00ha	Tailing Pond	0.00ha	
		Roads, Conveyors, pipeline, electric line	0.20ha	Roads, Conveyors, pipeline, electric line	0.20ha	
		Infrastructure	0.00ha	Infrastructure	0.00ha	
		Township	0.00ha	Township	0.00 ha	
		Topsoil	0.00ha	Topsoil	0.00 ha	
		Effluent Treatment Plant	0.00ha	Effluent Treatment Plant	0.00ha	
		Others (Magazine, Rainwater harvesting, Back Filling Area1)	0.00ha	Others (Magazine, Rainwater harvesting, Back Filling Area-1)	0.00 ha	
		Green Belt	2.55 ha	Green Belt	1.80 Ha	
3p	Production of ROM mineral during last five-year period, as applicable	2019-20	99458 MT	2019-20	22162 MT	
		2020-21	99328 MT	2020-21	86018 MT	
		2021-22	99014 MT	2021-22	98998 MT	
		2022-23	99177 MT	2022-23	98800MT	
		2023-24	99591 MT	2023-24	98807 MT	
3q	General remarks of inspecting officer on method of mining etc.		As per proposal.			

Solid Waste Management-Dumping

Sr.NO	Item	Proposal (2023-24)	Actual Work (2023-24)	Remarks
4a.	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Nil	Nil	Concurrent backfilling is practiced and then reclaiming the land by suitable native plantation.
4b	Location of topsoil, & OB & mineral reject dumps (Give coordinates with mRL)	Nil	Nil	
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)	Nil	Nil	
4e	Number of active & alive dumps	Nil	Nil	
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps stabilized	Nil	Nil	
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	Nil	Nil	
4j	Number of settling ponds	Nil	Nil	

4k	Specific comments of inspecting officer on waste dump management	Concurrent backfilling is practiced and then reclaiming the land by suitable native plantation.
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Solid Waste Management-Backfilling

Sr.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 extraction & reclamation is being carried out	Backfilling is been done after exhaustion of Bauxite from the Quarry.
5b	Area under backfilling of mined out area	0.49 Ha	0.49 Ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	For Reclamation and Rehabilitation	For Reclamation and Rehabilitation	
5d	Total area fully reclaimed & rehabilitated	0.49 Ha	0.49 Ha	
5e	General remarks of inspecting officer on backfilling, reclamation etc.		Concurrent backfilling is practiced and then reclaiming the land by suitable native plantation.	

Progressive Mine Closure Plan

Sr.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	Yes	Yes	
6b	Management of worked/mined out benches	Nil	Nil	
	i) Area available for rehabilitation (ha)	0.49 Ha	0.49Ha	
	ii) Afforestation done (ha)	0.49 Ha	0.46 Ha	
	iii) No. of sapling planted during the year	1225	2540	
	iv) Cumulative no. of plants	Nil	19861	
	v) Any other specific method of rehabilitation	Nil	Nil	
	vi) Cost incurred on watch & care during the year		Rs.296400.00	

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 v) Any other specific means	Concurrent backfilling on Mined out area 86mx71mx8m 4790 M2 0.49Ha Nil Nil	Concurrent backfilling on Mined out area 86mx71mx8m 4689 M2 0.49Ha Nil Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	0.49Ha 0.49Ha Plantation	0.49 Ha 0.49 Ha Plantation	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Air- Monthly Noise- Monthly Water-6 Monthly	Air- Monthly Noise- Monthly Water-6 Monthly	
6f	General remarks of inspecting & progressive closure operations.		Concurrent backfilling is practiced and then reclaiming the land by suitable native plantation. Air, water and noise monitoring done as per CPCB standards.	

Mineral Conservation

Sr.NO	Item	Proposal (2023-24)	Actual Work (2023-24)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Nil	Nil	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Nil	Nil	
7c	Different grade of mineral sorted out at mines	Nil	Nil	
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues		All ROM is transported to crushing plant by 25 Tons dumper. Only crushing is done.	

Environment

Sr.NO	Item	Proposal (2023-24)	Actual Work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	18060 M3	22451 M3	
8b	Concurrent use or storage of topsoil	Nil	Nil	

8c	Separate dumps for overburden, waste rock rejects and fines (Rule 33)	Nil	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Concurrent Backfilling	Concurrent Backfilling	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed	0.49 Ha	
8f	Baseline information on existence of plantation & additional plantation done (Rule 42)	1225 Saplings	2540 Plantation	
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Regular sprinkling with water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area.		Concurrent backfilling is practiced and then reclaiming the land by suitable native plantation. Air, water and noise monitoring done as per CPCB standards.	

Compliance of Rule 45

Sr.NO	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	Submitted		
Sr.NO.	Item			Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer- Raj Sinha Geologist–Shri Basudev Gangopadhyay Manager– Shri Raj Kumar Sinha	Mining Engineer- Raj Sinha Geologist–Shri Basudev Gangopadhyay Manager– Shri Raj Kumar Sinha	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		13.743 Ha	
9d	Scrutiny of Annual return on afforestation	0.49 Ha / 1250	0.49 Ha /2540 plantation	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	5482 Tonne	0	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost.		Ex-Mine Price- Rs - 1246.71	
9h	Scrutiny of Annual return on fixed assets	1. Industrial Building – 22408661/- 2. Residential Building – 1105512/- 3. Plant and Machinery – 130795673/- 4. 4. Repairs and exploration etc. – 38657689/- Total - 192967535/-		

9i	Scrutiny of Annual return on mining machineries	<ol style="list-style-type: none">1. SHOVEL (HYDRAULIC) 0.900 CUM 1 Non Electrical2. SHOVEL (HYDRAULIC) 1.900 CUM 1 Non Electrical3. FRONT END LOADER 2.100 CUM 1 Non Electrical4. TIPPER 20.000 CUM 2 Non Electrical5. DUMPER 25.000 TONNE 1 Non Electrical6. AIR COMPRESSOR 260.000 CUM/MN 1 Non Electrical7. CRUSHER 120.000 T/H 1 Non Electrical8. CRUSHER 200.000 T/H 1 Electrical.
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Details of violations observed during current inspection and compliance position of earlier violation pointed: - Nil, Earlier Violation dated 28/06/2024, MCDR Rule - 45(7) not yet complied but request sent for referred back to MMS division.

Date: - 25/10/2024

Vikrant M. Khedikar
Sr.Assistant Controller of Mines
Indian Bureau of Mines, Ranchi
(Name of inspecting officer with designation and date)