#### MCDR INSPECTION REPORT

Date of Inspection: 29/08/2024

General

Sl.	Particulars	Details
No.		
1.	Name of the Mines	Bimarla Bauxite Mine (134.37 Ha)
2	Total Lease Area (Ha) with breakup of	134.37 Ha
	Non-forest and forest land	a. Forest Land – Nil
		b. Non-Forest Land-
		• G.M Land- 4.70 Ha
		Raiyati Land- 129.67 Ha
		Others- Nil
3.	Mine code	07JHK09007
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/961/2011
5	Name of the lessee, Address, Phone,	Bimarla Bauxite Mine (134.37 Ha)
	email and fax number	Mouza –Korle, Ghaghra, Baranj & Bimarla,
		Thana – Ghaghra, District – Gumla,
		Pin -835231(Ahar), State – Jharkhand.
		Phone No.: 06526 - 224015, 224112, 223113
		Fax No. : 06526224218
		Email id: bijesh.jha@adityabirla.com
6	Village	Korle, Ghaghra, Baranj & Bimarla
7	Taluka/Mandal	Ghaghra
8	District	Gumla
9	Pin code	835231 (Adar)
10	State	Jharkhand
11	Post Office	Adar
12	Nearest Police Station	Ghaghra
13	Nearest Railway station	Lohardaga
14	Date of Grant of Mining Lease	28.07.2007
15	Date of Execution	18/07/2009
16	Date of Opening of Mine	21.05.2015
17	Date of First Renewal, if applicable	NA
	and its period & expiry	
18	Date of second Renewal, if applicable	NA
	and its period & expiry	
19	Date of submission of renewal	NA
	application if Mining operations are	
	continuing under deemed extension	
20	Name of the Nominated Owner with	Bijesh Jha
	Address, phone, email ,fax number	M/s. Minerals & Minerals Limited
	and date of appointment	Court Road, Lohardaga,

21	Name of the Mine Agent with Address, phone email, fax number and date appointment in mines.	Jharkhand 835302 65,26,22,41,18,06,52,60,00,000 bijesh.jha@adityabirla.com Date of appointment:- 30-07-2018 Prateek Kumar Minerals & Minerals Limited P.o. & Dist. Lohardaga, Jharkhand Pin: 835 302 Email-prateek.kumar@adityabirla.com PH.No-7738368627 Date of appointment:- 01-12-2022
22	Name of the Mines Manager with Address, Phone, email, fax number and date of appointment	Kiran Shankar Singh First Class DGMS Certificate Holder Minerals & Minerals Limited Court Road P.o. & Dist. Lohardaga, Jharkhand Pin: 835 302 Email-kiran.singh@adityabirla.com PH.No - 9470590791 Date of appointment:-23.08. 2024
23	Name of the mining engineer, qualification and total experience with Address, phone, email, fax number and date of appointment in Mines.	Kiran Shankar Singh First Class DGMS Certificate Holder Minerals & Minerals Limited  Court Road  P.o. & Dist. Lohardaga, Jharkhand Pin: 835 302  Email-kiran.singh@adityabirla.com  PH.No - 9470590791  Date of appointment:-23.08. 2024
24	Whether Geologist and Mining Engineer appointed in Mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Geologist: - Mihir Barai, M. Tech (Mineral Exploration), Email - mihir.barai@adityabirla.com, Date of appointment: - 16.08.2017

25	Date of Approval of Mining Plan/Modified Mining Plan with five- year period and specific condition in approval letter, if any.	03/02/2023
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Approval of Modification Mining Plan - 03/02/2023
27	Mineral(s) granted in lease and proved for mining	Bauxite
28	Method of Mining(Opencast, Underground)	Open Cast
29	Category (Fully Mechanized, Others or Manual)	Others
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.)

## Exploration

Sl.No	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
1a	Backlog of previous year	NA	NA	No backlogs
1b	Exploration over lease area for Geological axis 1 or 2.	No such proposal	Nil	Nil
1c	Exploration Agency & Expenditure in lakh Rupee during the year	NA	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No such proposal	Nil	76.87 ha non-forest land to be explored
1e	Balance reserves as on 01.04.2024	1229099 T (111)	1691922 T (111)	nil
1f	General remarks of inspecting officer on geology, exploration etc.	No backlogs on exploration however 76.87 ha area is required to be explored.		

#### Development

Sl.No	Item	Proposals(2023-	Actual	Remarks
		24)	work(2023-24)	
2a	Location of development	(1)236404.00E	(1)236404.00E	Quarry in the
	w.r.t lease area	2577740.00 W,	2577740.00 W,	proposed area
		2577740.00 N	2577740.00 N	
		236404.00 S (2)	236404.00 S	
		236695.00 E	(2) 236695.00	

		2578186.00 W, 236695.00 N 2578186.00 S (3) 236057.00 E 2577760.00 W, 236057.00 N 2577604.00 S	E 2578186.00 W, 236695.00 N 2578186.00 S (3) 236057.00 E 2577760.00 W, 236057.00 N 2577604.00 S	
2b	Separate benches in top soil, overburden and mineral (Rule 15)	Maintained	Maintained	
2c	Stripping ratio or ore to OB ratio	1:1.15	1:1.55	
2d	Quantity of topsoil generation in m <sup>3</sup>	125523	42840	
2e	Quantity of overburden generation in m <sup>3</sup>	346145	166887	
2f	General remarks of inspecting officer on development etc.	Quarry excavated in the proposed area, Quantity of topsoil generation in 42840 m <sup>3</sup> the FY and 166887m3 waste generated.		

# **Exploitation**

Sl.No	Item	Proposals (2023- 24)	Actual work (2023-24)	Remarks
3a	Number of pits proposal for production	1528, 1408, 1414, 1415, 9, 10, 6, 7, 1412, 1413, 1411, 1407	1528, 1408, 1414, 1415, 9, 10, 6, 7, 1412, 1413, 1411, 1407	Nil
3b	Quantity of ROM mineral production proposed	299762.71 T	107000 T	Nil
3c	Recovery of salable/usable mineral from ROM production	80%	80%	Nil
3d	Quantity of mineral reject generation	74940.68	nil	Nil
3e	Grade of mineral reject generation and threshold value declared	NA	NA	Nil
3f	Quantity of sub-grade mineral generation	NA	NA	Nil

3g	Grade of sub-grade mineral generation	NA		NA		Nil
3h	Manual/Mechanized method adopted for segregating from ROM	Manual		Manual		Nil
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No such	proposal	Ni	1	Nil
3j	Provision of drilling & blasting in mineral benches	YES		YES		Nil
3k	Provision of mining machineries in mineral benches	YES		YES		Nil
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	YES		YES		6m Bench height is kept
3m	Total area covered under excavation/pits	9.72 HA		6.07 ha		Nil
3n	Ore to OB ratio for the pit/mine during the year	1:	:1.15	1:1.55		Nil
30	Total area put in use under different heads at the end of year	55.8 HA		51	.72 HA	Nil
3p	Production of ROM mineral during last five-	PROPOS	ED	ACTUAL		Nil
	year period, as applicable	2018-19:		2018-19:	185715	
	Jean period, as applicable	2019-20:		2019-20:	155000	
		2020-21	292990	2020-21	108350	
		2022-23:	297461	2022-23:	128250	_
		2023-24:	299762. 71	2023-24:	107000	
3q	General remarks of	Method o	of mining	is opencast.	Drilling a	nd blasting is
	inspecting officer on	in practice in mineral and deploying of excavator and				
	method of mining etc.	dumper. Separate benched are maintained for OB and				
		Ore and	6m Bench	height is m	aintained.	

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

Sl.No	Item	Proposals	Actual work	Remarks
		(2023-24)	(2023-24)	

4a.	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	No such proposal	Nil,	Simultaneous backfilling is in practice
4b	Location of topsoil, & OB & mineral reject dumps	No such proposal	Nil	Nil
4c	Number of dumps within lease area and outside lease area	No such proposal	Nil	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No such proposal	Nil	Nil
4e	Number of active & alive dumps	NA	Nil	Nil
4f	Number of dead dumps	NA	Nil	Nil
4g	Number of dumps stabilized	NA	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there	No such proposal	Nil	No dump in the mine as OB is used for backfilling of mined-out pit
4i	Length of Retaining wall or garland drain all along dump	NA	Nil	Nil
4j	Number of settling ponds	NA	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	Concurrent backt dump exists in th		ce and hence no

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

Sl.No	Item	Proposals (2023-24)	Actual work (2023- 24)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	full extraction of mineral from mined out area before starting backfilling	As per the proposal	Nil
5b	Area under backfilling of mined out area	5.98 Ha	4.09 Ha	Nil

5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	346145 m3	166887 m3	Nil
5d	Total area fully reclaimed & rehabilitated	46.04 ha	45.65 ha	nil
5e	General remarks of inspecting officer on backfilling, reclamation etc.		cfilling of mined out pit eading of top soil over b	

# **Progressive Mine Closure Plan**

Sl.No	Item	Proposals (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	nil
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (ha)	5.98 Ha	4.09 ha	
	ii) Afforestation done (ha)	No such proposal	Nil	As the land belongs to raiyats hence after backfilling and spreading of top soil over backfilled area land hand overed to the respective raiyat.
	iii) No. of sapling planted during the year	No such proposal on mined out land	Nil	
	iv) Cumulative no. of plants	No such proposal on mined out land	Nil	
	v) Any other specific method of rehabilitation	Proposal of backfilling followed by	As per the proposal	

		spreading of top- soil over backfilled area		
	vi) Cost incurred on watch & care during the year	NA	NA	Nil
6c	Compliance on reclamation and rehabilitation by back filling			
	i) Voids available for backfilling	5.98 Ha	4.09 ha	Nil
	ii) Void filled by waste/tailings	5.98 На	4.09 ha	Nil
	iii) Afforestation on the backfilled area	No such proposal	Nil	Nil
	iv) Rehabilitation by making water reservoir	No such proposal	Nil	Nil
	v) Any other specific means	No specific proposal	Nil	Nil
6d	Compliance of Rehabilitation of waste land within lease			
	i) Afforestation	1600 nos	4480 nos	Plantation over safety zone
	ii) Area rehabilitated (ha)	0.64 ha	1.9ha	Plantation over safety zone
	iii) Method rehabilitation	Plantation	Plantation	Nil
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Periodic monitoring in core and buffer zone	As per the proposal	Parameters are within limit

6f	General remarks of	Mined-out pits were concurrently backfilled by
	inspecting &	waster/OB followed by spreading of top-soil over
	progressive closure	backfilled area. Plantation were done over safety zone.
	operations.	

## **Mineral Conservation**

Sl.No	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No such proposal	All mineral above threshold is dispatched	nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	nil
7c	Different grade of mineral sorted out at mines	All mineral above threshold are dispatched	All mineral above threshold are dispatched	Nil
7d	Any beneficiation process at mines	No such proposal	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	All mineral above threshold is dispatched from the mine		

### **Environment**

Sl.No	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Concurrent spreading over backfill area	As per the proposal	Concurrent spreading of top soil over backfilled area is in practice
8b	Concurrent use or storage of topsoil	Concurrent use	As per the proposal	Nil
8c	Separate dumps for overburden, waste rock rejects and fines (Rule 33)	No such proposal	Nil	Waste is used for backfilling of mined out pit

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Concurrent Backfilling	As per the proposal	Waste is used for backfilling of mined out pit
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Simultaneously concurrent backfilling and reclamation	Simultaneously concurrent backfilling and reclamation	concurrent backfilling and reclamation is in practice
8f	Baseline information on existence of plantation & additional plantation done (Rule 42)	1600 NOS.	2875 NOS.	Within the lease area
8g	Survival rate	70%	70%	nil
8h	Water sprinkling on roads to control airborne dust	Provision of Water tanker is kept in provision to control airborne dust	As per the proposal	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area.	Mine is located at top of plateau devoid of major vegetation however slope of plateau having vegetation of mainly sal tree.		

## **Compliance of Rule 45**

Sl.No	Item	COMMENTS	Remarks
9a	Status of submission of	Monthly and Annual Return	Complied
	Monthly and Annual returns	submitted (2023-24)	timely
9b	Scrutiny of Annual return for	Mining engineer: Sri.	Information
	information on Mining	Vangalapudi Achyuta Kumar	found to be
	Engineer, Geologist and		correct
	Manager	Geologist: Sri. Mihir Barai	
9c	Scrutiny of Annual return on	Already exploited and	information
	land use pattern for area under	abandoned by opencast (O-C)	seems to be
	pits, reclaimed area, dumps	mining: 51.72 ha, Covered	in order
	etc.	under current (O-C) Workings:	
		6.07 ha	
		Reclaimed-rehabilitated: 45.65	
		ha	
		Occupied by plant, buildings,	
		residential, welfare buildings	
		and roads: 4.08 ha	
		Work done under progressive	
		mine closure plan during the	
		year: 4.09 ha	

9d	Scrutiny of Annual return on afforestation	Plantation within the lease area: 4480nos, survival: 70%, Total no. of trees at the end of the year: 20580 nos	information seems to be correct
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	no mineral reject generated during the reporting year
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening stock: 0T, closing stock: 0T, production: 107000 T	information seems to be correct
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost.	Cost of production: Rs. 1308.17 per tonne.	information seems to be correct
9h	Scrutiny of Annual return on fixed assets	Rs. 196048995/-	information seems to be correct
9i	Scrutiny of Annual return on mining machineries	Air Compressor (400cum/Min): 1nos. Dumper (25t): 8 Nos., Shovel (Hydraulic) (0.9 Cum): 3nos., Water Tanker (12kl): 1nos., Wheel Loader (2.3cum): 1nos. Rock Drill (Non-Elec.) (100mm): 1nos.	information seems to be correct

P. Hapadgara Senior Mining Geologist Indian Bureau of Mines, Ranchi