

**MCDR INSPECTION REPORT****1.0 GENERAL**

S.N.	Particulars	Details
1(a)	Name of the Mine	Asota-Mewasa Bauxite Mine
1(b)	Name of Inspecting Officer & Designation	Shri Sunil Kumar Sharma Senior Assistant Controller of Mines
1(c)	Accompanying Mines Representatives	Shri Gunanand Roy (Mine owner representative) & Shri Santosh Kaluskar (Geologist)
1(d)	Type of Inspection	MCDR & Star Rating
1(e)	Date of Inspection	20.12.2024
2	Total Lease Area (Ha) with breakup of non-forest and forest land	682.3892 Hect (Non-Forest land)
3	Mine code	07GUJ07002
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/902/2011
5	Name of the lessee, Address, phone, email and fax number	M/s.Bombay Minerals Limited. Jamnagar Dwarka Highway, Opp. Ashok Petrol Pump P.O-Khambhalia, District- Devbhumi Dwarka Mob: 9998945910, Email ID: bmlamm_nan.yahoo.com
6	Village	Mewasa, Mota-Asota,Ran,Habardi & Khakharda
7	Taluka/Mandal	Kalyanpur
8	District	Devbhumi Dwarka
9	Pin code	361315
10	State	Gujarat
11	Post office	Mewasa
12	Nearest police station	Bhatia
13	Nearest Railway station	Bhatia
14	Date of Grant of Mining Lease	31.01.1958
15	Date of Execution	09.08.1958
16	Date of opening of Mine	-
17	Date of first Renewal, if applicable and its period & expiry	08.08.1977 for 20 Years Period 09.08.1978 to 08.08.1998.
18	Date of second Renewal, if applicable and its period & expiry	06.08.1997 09.08.1998 to 08.08.2018
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	20.12.2019 Lease period extend upto 31.03.2030.
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Hemul Shah (DOA: 08.02.2023) 302/303, Rahul Enclave, A-Wing, Saibaba Nagar, Borivali-West, Mumbai- 400 092 Mob no. 9820911707, Email Id: bmlamm_nan.yahoo.com
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Gunanand Roy (DOA: 24.08.2017) M/Bombay Minerals Ltd. Jamnagar Dwarka Highway, Opp. Ashok Petrol Pump P.O-Khambhalia, District- Devbhumi Dwarka (Gujarat) Mob: 9998945910, Email Id: bmlamm_nan.yahoo.com
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Kishor Kumar Choudhary (DOA: 15.02.2009) Jamnagar Dwarka Highway, Opp. Ashok Petrol Pump P.O-Khambhalia, District- Devbhumi Dwarka (Gujarat) Mobile- 9925204390
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Kishor Kumar Choudhary (DOA: 15.02.2009) (B.E. Mining Engineer) Total experience: -24 Years Jamnagar Dwarka Highway, Opp. Ashok Petrol Pump P.O-Khambhalia, District- Devbhumi Dwarka (Gujarat) Mobile- 9925204390
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties	Yes, Geologist: Santosh R Kaluskar DOA: - 11/06/2024

	as per rule 56 & 57.	
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Review of mining plan: 13/06/2023 Vide Letter No. - MCDR-MPCP0CaF1/9/2023-GNR-IBM Period: 2023-24 to 2027-28.
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	-
27	Mineral(s) granted in lease and proved for mining	Bauxite
28	Method of Mining (Opencast, Underground)	Opencast Working
29	Category (Fully Mechanised, Others or Manual)	Category-A (Semi Mechanised)
30	Captive/non-captive	Captive

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –

### Exploration

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
1a	Backlog of previous year	-	-	Violation observed under Rule 48(1), the record keeping of boreholes in form-J is not carried out.
1b	Exploration over lease area for Geological axis 1 or 2.	104 Borehole	104 Borehole	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Lessee itself	Lessee itself	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1-594.770 Ha G2-70.100 Ha. G3-17.52 Ha.	G1-674.27 Ha G2-8.12 Ha. G3-0.000 Ha.	-
1e	Balance reserves/resources as on 01.04.2024	UNFC code	Reserves/ Resources	-
		111	51483761.6	
		122	759195.4	
		221	8213075.68	
		222	202201.87	
		Total	60,658,234.55	
1f	General remarks of inspecting officer on geology, exploration etc.	Violation observed under rule 48(1), the record keeping of boreholes in form-J is not carried out. Exploration has been carried out but the record has not been maintained in Form-J.		

### 2.0 Development

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
2a	Location of	Working was proposed to four blocks-	Working development in	

	development w.r.t. lease area	<table> <tr> <th>Name of Blocks</th><th colspan="2">Easting</th><th colspan="2">Northing</th></tr> <tr> <td rowspan="3">Karamkund</td><td>5333 58</td><td>5334 67</td><td>2459507</td><td>2459648</td></tr> <tr> <td>5332 67</td><td>5334 72</td><td>2459699</td><td></td></tr> <tr> <td>5336 38</td><td>5338 79</td><td>2459163</td><td>2459311</td></tr> <tr> <td rowspan="2">Khatladhar &amp; Suradhar</td><td>5344 50</td><td>5346 02</td><td>2457304</td><td>2457552</td></tr> <tr> <td>5345 23</td><td>5346 74</td><td>2457230</td><td>2457357</td></tr> <tr> <td rowspan="4">Bhopamadhi</td><td>5329 72</td><td>5331 06</td><td>2459045</td><td>2459120</td></tr> <tr> <td>5327 26</td><td>5329 30</td><td>2459038</td><td>2459107</td></tr> <tr> <td>5327 53</td><td>5328 76</td><td>2459122</td><td>2459251</td></tr> <tr> <td>5310 58</td><td>5312 33</td><td>2458963</td><td>2459165</td></tr> <tr> <td rowspan="2">Chapaldhar</td><td>5341 53</td><td>5342 85</td><td>2461972</td><td>2462119</td></tr> <tr> <td>5350 83</td><td>5351 70</td><td>2461483</td><td>2461573</td></tr> </table>	Name of Blocks	Easting		Northing		Karamkund	5333 58	5334 67	2459507	2459648	5332 67	5334 72	2459699		5336 38	5338 79	2459163	2459311	Khatladhar & Suradhar	5344 50	5346 02	2457304	2457552	5345 23	5346 74	2457230	2457357	Bhopamadhi	5329 72	5331 06	2459045	2459120	5327 26	5329 30	2459038	2459107	5327 53	5328 76	2459122	2459251	5310 58	5312 33	2458963	2459165	Chapaldhar	5341 53	5342 85	2461972	2462119	5350 83	5351 70	2461483	2461573	One block i.e.- Bhopamadhi Pit No.15 in Pit Floor Name of Blocks Bhopamadhi Easting E531058 to 531233 Northing: N2458963 to 2459165	-
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2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Bhopamadhi, Chapaldhar, Khatladhar and Suradhar, Karamkund Bench in mineral- Two Bench in Karmakund, Bhopamdhi	Bhopamadhi Block Bauxite- One Bench	-																																																					
2c	Stripping ratio or ore to OB ratio	1:0	1:0	-																																																					
2d	Quantity of topsoil generation in m <sup>3</sup>	No proposal	Nil	-																																																					
2e	Quantity of overburden generation in m <sup>3</sup>	No Proposals	Nil	-																																																					
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	During inspection, it is found that rock-breaker machine is deployed for breaking of in-situ rock from mineral bench. Simultaneously, broken mineral is transported to the stockpile with the help of dumper shovel combination.																																																							

### 3.0 Exploitation

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
3a	Number of pits proposed for production	Proposed Block 1. Chapaldhar Pit no.-2 & 10 2. Bhopamadhi- Pit No.- 1,2,3 & 15 3. Khatladhar & Suradhar- Pit No-1 & 2 4. Karamkund- Pit No-1,2 & 8	Partially achieved block as per Proposal. Bhopamadhi Pit No. 15 Pit Floor	-
3b	Quantity of ROM mineral production proposed	628473 MT	55436 MT	-

3c	Recovery of saleable/usable mineral from ROM production	100% (628473 MT)	100% 55436 MT	-
3d	Quantity of mineral reject generation	No Proposals	Nil	-
3e	Grade of mineral reject generation and threshold value declared	No Proposals	Nil	-
3f	Quantity of sub-grade mineral generation	No Proposals	Nil	-
3g	Grade of sub-grade mineral generation	No Proposals	Nil	-
3h	Manual / Mechanised method adopted for segregating from ROM	Proposed Manual	Manual Sorting	-
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Proposals	Nil	-
3j	Provision of drilling & blasting in mineral benches	No Proposals	Nil	-
3k	Provision of mining machineries in mineral benches	Excavator-03 Truck-04 Rock Breaker-01 Wheel loader-1 Water tanker-1	Excavator-01 Truck-02 Rock Breaker-01 Wheel loader-1 Water tanker-1	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Bench height : 5 m	-
3m	Total area covered under excavation/pits	Area under mining pit: 170.14 Ha.	Area under mining pit: 169.89 Ha.	-
3n	Ore to OB ratio for the pit/ mine during the year	No Proposals	NIL	
3o	Total area put in use under different heads at the end of year	Pit: 170.14.89 ha Waste Dump: 0.19 ha. Mineral Storage: 21.59 ha Infrastructure: 5.75 ha. Others- 2.51 ha	Pit- 169.89 Waste Dump: 0.19 ha. Mineral Storage: 20.59 ha Infrastructure: 5.75 ha. Others- 2.51 ha	-
3p	Production of ROM mineral during last five-year period, as applicable	2019-20: 1840725 MT 2020-21: 1840478 MT 2021-22: 1840392 MT 2022-23: 1840140 MT 2023-24: 628473 MT	2019-20: 224919 MT 2020-21: 155142 MT 2021-22: 131561 MT 2022-23: 38195 MT 2023-24: 55436 MT	-.
3q	General remarks of inspecting officer on method of mining etc.	During inspection, it is found that rock-breaker machine is deployed for breaking of in-situ rock from mineral bench. Simultaneously, broken mineral is transported to the stockpile with the help of dumper shovel combination.		

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

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No Proposals	NIL	-

4b	Location of topsoil, OB & mineral reject dumps	No Proposals	NIL	-
4c	Number of dumps within lease area and outside lease area	No Proposals	No Dump outside lease area	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No Proposals	NIL	-
4e	Number of active & alive dumps	No Proposals	NIL	-
4f	Number of dead dumps	01 Old Dump	One Old Dump (Karamkund- 28OB)	-
4g	Number of dumps stabilised	No Proposals	Nil	-
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	One Garland drain constructed	-
4i	Length of Retaining wall or garland drain all along dump	187 m	187 m	-
4j	Number of settling ponds	No Proposals	Mining Pits is being utilised as settling Ponds.	-
4k	Specific comments of inspecting officer	During the inspection, one old dump is found. Presenly, there is no proposal of waste dumping. During the year 2023-24, no OB, waste and topsoil was generated.		

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

SN	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	Mined Out Area pit is 55.23 Ha	Mined Out Area pit is 55.23 Ha	-
5b	Area under backfilling of mined out area	No Proposals	Backfilled area & other Plantation area	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No Proposals	E 533781 to 534070 N 2457615 to 2457796	
5d	Total area fully reclaimed & rehabilitated	4.69 Ha.	5.5 Ha	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	Waste or topsoil is not generated during the year 2023-24. Therefore, Waste or topsoil is not available for backfilling during the year 2023-24.		

### **6.0 Progressive Mine Closure Plan**

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2). Details should be given in the format as given in Annexure-20.	Submitted	Submitted with online Annual Return 2023-24	-
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings 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	No Proposals	NIL	-

6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	No Proposals  No Proposals No Proposal - -	Nil  8.72 Ha. 0.81 Ha. 4.07 Ha. -	-
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	3000 sapling 0.81 Ha. Plantation	3000 sapling (approx.) 0.81 Ha. Plantation	-
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring	Quarterly Monitoring carried out	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Plantation work carried out at Karandhar-N block.		

### 7.0 Mineral Conservation

7.0 Mineral Conservation				
SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM 628473 MT	ROM 55436 MT	done
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	
7c	Different grade of mineral sorted out at mines	Abrasives, Refractory & Cement	Abrasives, Refractory & Cement	
7d	Any beneficiation process at mines	No Proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Manual Sizing and sorting work has been carried out at mines to segregate the abrasive, refractory and cement grade bauxite. Stock position of the mine is as follows: 1. Cement Grade: 3214696.225 tonne 2. Abrasives Grade: 8821.110 tonne 3. Refractory Grade: 17000.942 tonne		

### 8.0 Environment

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposals	Nil	-
8b	Concurrent use or storage of topsoil	No Proposals	Nil	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Proposals	Nil	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposals	NIL	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	0.89 Ha.	0.81 ha Area Rehabilitation	-
8f	Baseline information on existence of	7951 No.	7633 No.	-

	plantation & additional plantation done (Rule 41)			
8g	Survival rate	80%	89.4%	-
8h	Water sprinkling on roads to control airborne dust	Water to be sprinkled on the haul road	Mobile water tankers have been deployed for the purpose.	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Plantation work carried out at Karandhar-N block block. Aesthetic beauty in and around the mines is satisfactory.		

## 9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
1	Status of submission of Monthly and Annual returns	M.R. Submitted upto- Nov-2024 (Dt: 05.12.2024) A.R. submitted upto- Year 2023-24 (Dt: 20.06.2024)	-

S.N.	Item	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: K K Choudhary Geologist: Jagdish Jangir Mines Manager: K K Choudhary	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under mine working: 169.89 Ha. Reclaimed & Rehabilitated: 8.72 Ha. Waste Dump: 0.19 Ha Infrastructure: 5.75 Ha. Mineral Storage & plantation: 23.1 Ha.	-
9d	Scrutiny of Annual return on afforestation	Plantation carried out 0.81 Ha.	-
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	1. Cement Grade: 3214696.225 tonne 2. Abrasives Grade: 8821.110 tonne 3. Refractory Grade: 17000.942 tonne	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cement Grade: ₹783/ tonne Abrasives Grade: ₹ 926/ tonne Refractory Grade: ₹ 1042/ tonne Production cost : ₹ 999.67 /tonne	
9i	Scrutiny of Annual return on fixed assets	Building Industrial: ₹8315659/- Plant & Machinery: ₹ 4037478/-	
9k	Scrutiny of Annual return on mining machineries	Shovel (Hydraulic): 2 nos. Dumper: 2 Nos. Wheel Loader: 1 Nos. Water Tanker: 1 Nos.	

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out: -

1. Drone survey data analysed and found as per SOP.
2. There was no earlier violation pending for compliance.
3. During the inspection, following violation has been observed:

नियम सं.	उल्लंघन के प्रकार का विस्तृत ब्यौरा
48(1)	The holder of a mining lease or the holder of a prospecting licence or composite licence shall keep a record in Form-J of all shafts or boreholes and shall retain such records and preserve the

	samples of the strata passed through for a period of not less than twelve months after the completion of the work. In your case such record was not found.
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Sunil Kumar Sharma  
Senior Assistant Controller of Mines