

MCDR INSPECTION REPORT**1.0 GENERAL**

S.No.	Particulars	Details
1(a)	Name of the Mine	Avariyar-II Bauxite Mine (330/P)
1(b)	Name of Inspecting Officer & Designation	Shri Sunil Kumar Sharma, Senior Assistant Controller of Mines
1(c)	Accompanying Mines Representatives	Mr. Gunanand Roy, Agent of Mines (Owner Representative)
1(d)	Type of Inspection	MCDR/Star Rating
1(e)	Date of Inspection	19.12.2024
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	50.18 Hect (Non-Forest land)
3	Mine code	07GUJ07004
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/246/2011
5	Name of the lessee, Address, phone, email and fax number	M/s.Orient Abrasive Limited. Lawrence Mayo house,3rd Floor 276, D.N.Road, FortMumbai-400001 Mob: 9998945910 Email ID: orientkhambalia@gmail.com
6	Village	Mewasa
7	Taluka/Mandal	Kalyanpur
8	District	Devbhumi Dwarka
9	Pin code	360315
10	State	Gujarat
11	Post office	Mewasa
12	Nearest police station	Kalyanpur
13	Nearest Railway station	Kalyanpur
14	Date of Grant of Mining Lease	07.04.1981
15	Date of Execution	05.10.1981
16	Date of opening of Mine	05.10.1981
17	Date of first Renewal, if applicable and its period & expiry	05.06.2000 & lease period valid upto 04/10/2031
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	As per Section 8(A) (5) of MMDR (Amendment) Act-2015 Lease period Extended by Government of Gujarat, Industries & Mines Department, Gandhinagar Vide Letter No.MCR/1580(O-54)/CHH1 dated on 04/08/2018 lease period valid upto 04/10/2031
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Manubhai Rathod w.e.f. 13.06.2017 M/s.Orient Abrasives Ltd. Jamnagar Dwarka Highway,Khambaliya-361305 District- Devbhumi Dwarka.(Gujarat) Email: mrathod@ashapura.com
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Gunanand Royw.e.f 01.08.2016 M/s.Orient Abrasives Ltd. Jamnagar Dwarka Highway,Khambaliya-361305 District- Devbhumi Dwarka.(Gujarat) Mobile No.9998945910 Email: gunanandroy@ashapura.com
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Jaydeep Paradavaw.e.f 01.01.2022 M/s.Orient Abrasives Ltd. Avariyar Bauxite mines,Mewasa,Kalyanpur-361315 District- Devbhumi Dwarka.(Gujarat)

		Mobile No.9879352878 Email:paradavajaydeep@gmail.com
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Jaydeep Paradava BE Mining Engineering w.e.f 01.01.2022 . M/s.Orient Abrasives Ltd. Avariya Bauxite mines, Mewasa, Kalyanpur-361315 District- Devbhumi Dwarka.(Gujarat) Mobile No.9879352878 Email: paradavajaydeep@gmail.com
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56&57.	Shri Kalpesh Kodavala, Msc Geology w.e.f 11.06.2024 Mobile no. 9624038421
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 was Approved on-13.04.2022 Letter No-684(4)(1)/MP-396/2021-22/GNR/183.Validity- 2022-23 to 2026-27 for 5 year period.
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(Open cast, Underground)	Open cast Working
29	Category (Fully Mechanised, Others or Manual)	Category-A
30	Captive/Non Captive	Captive

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

Exploration

S.No.	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.	03 Trial Pit (6m x 6m x 6m)	03 Bore hole	
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	G-1: 37.13 Ha G-2: 5.67 Ha G-3 : 7.38	G-1: 41.21 G-2: 5.33 G-3: 3.64	
1e	Balance reserves as on 01.04.2024	UNFC Code	Reserves/ Resources	-
		111	2800360 tonne	
		122	785540 tonne	
		221	537383 tonne	
		222	119945 tonne	
		333	61190 tonne	
		Total	4,304,418 tonne	
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

S.No.	Item	Proposals	Actual work	Remarks
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		(2023-24)	(2023-24)	
2a	Location of development w.r.t. lease area	E532818 to E532808, N2457545 to N2457381 & E533142 to E533129, N2457565 to N2454611	E533129 to E533148 N2457560 to N2457614	-
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Top Soil- one bench Top OB- one bench Bauxite- one bench	Top Soil- one bench Top OB- one bench Bauxite- one bench	-
2c	Stripping ratio or ore to OB ratio	1:0.14	Nil	-
2d	Quantity of topsoil generation in m ³	176 m ³	Nil	-
2e	Quantity of overburden generation in m ³	4395 m ³	Nil	-
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	During the inspection, it is found that no topsoil and overburden has been generated during the year 2023-24 due to less production and it is carried out from existing mineral bench.		

3.0 Exploitation

S.No.	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
3a	Number of pits proposed for production	Proposed in AV2P2,AV2P15Pit	Actual Production in Pit no. AV2P15	-
3b	Quantity of ROM mineral production proposed	57070 tonne	6800 tonne	-
3c	Recovery of saleable / usable mineral from ROM production	100%	100%	-
3d	Quantity of mineral reject generation	No Proposals	NIL	-
3e	Grade of mineral reject generation	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	-
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-01 Tipper-01 Water Tanker-1	Excavator-01 Tipper-01 Water Tanker-1	-
3l	Whether height of benches in overburden and mineral suitable for method of	1 Bench of 5 m height proposed in Bauxite. 1 Bench of 1.2 m	Height of bench in ore-5 m. OB – 1 m	-

	mining proposed in MP/SOM	height proposed for Overburden.		
3m	Total area covered under excavation/pits	13.478 Ha.	13.478 Ha.	-
3n	Ore to OB ratio for the pit/mine during the year	1:0.14	Nil	-
3o	Total area put in use under different heads at the end of year	Pit-13.478Ha. Waste/reject-0.160Ha. Mineral Storage-1.9372Ha. Infrastructure & Road-1.850 Ha. Plantation- 0.413Ha.	Pit-13.478Ha. Waste dump: 0.160 Ha. Mineral Storage: 2.86 Ha. Infrastructure & Road: 1.850Ha. Plantation- 0.928Ha.	-
3p	Production of ROM mineral during last five-year period, as applicable (in tonnes)	2019-20: 208475 tonne	2019-20: 2520 t	-
		2020-21: 209475 tonne	2020-21: 5945 t	
		2021-22: 209975 tonne	2021-22: 5740 t	
		2022-23: 50169 tonne	2022-23:17700 t	
		2023-24: 57070 tonne	2023-24: 6800 t	
3q	General remarks of inspecting officer on method of mining etc.	Actual Production in Pit no. AV2P15 has been carried out during the year 2023-24.		

4.0 Solid Waste Management-Dumping

S.No.	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate dumping of Overburden (AV2OB1)	AV2OB1	
4b	Location of topsoil, OB & mineral reject dumps	E533165 N2457537	E533165 N2457537	
4c	Number of dumps within lease area and outside lease area	01 (AV2OB1)	01 (AV2OB1)	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No Proposal	Nil	
4e	Number of active & alive dumps	No Proposal	Nil	
4f	Number of dead dumps	01	01	
4g	Number of dumps stabilized	No Proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	No Proposal	Nil	
4i	Length of Retaining wall or garland drain all along dump	No Proposal	Nil	
4j	Number of settling ponds	No Proposal	Nil	
4k	Specific comments of inspecting officer	During the inspection, one waste dump of 4m height was found.		

5.0 Solid Waste Management-Backfilling

S.N.	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	Pit No.AV2P2	Nil	-
5b	Area under backfilling of	0.088 Ha.	0	-

	mined out area			
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	176 m ³	Nil	-
5d	Total area fully reclaimed & rehabilitated	No Proposal	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	During the year 2023-24, backfilling work has been carried out due to overburden has not been generated.		

6.0 Progressive Mine Closure Plan

S.N.	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26 (2)	Submitted	Submitted with 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 W 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	i) 880 Sq.M ii) 0 Sq.M iii) 500 Sapling iv) No Proposals v) 77 m Fencing	i) 880 Sq.M ii) 0 Sq.M iii) 500 Sapling iv) Nil v) 77 m Fencing	-
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	No Proposals	Nil	-
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Air, water & Noise monitoring	Quarterly Monitoring was carried out	-
6f	General remarks of inspecting officer on PMCP compliance & progressive	The compliance of the proposal of PMCP is satisfactory.		

7.0 Mineral Conservation

S.No	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Manual sorting and sizing.	Abrasive Grade: 623.41 t Refractory : 2852.4 t	-
7b	Method of grade-wise mineral	Manual	Manual	

	sorting i.e. manual or mechanical			
7c	Different grade of mineral sorted out at mines	Cement, Abrasives, Refractory	Cement, Abrasives, Refractory	
7d	Any beneficiation process at mines	No Proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Grade-wise sorting of mineral has been carried out manually.		

8.0 Environment

S.No.	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposal made for the separate removal and spreading of top soil on the backfilled area.	Nil	-
8b	Concurrent use or storage of topsoil	Spread on backfilled area.	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Proposal	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposal made for the backfilling	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.).	No Proposal	Nil	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	No Proposals	Nil	
8g	Survival rate	50%	About 50%	
8h	Water sprinkling on roads to control airborne dust	Water to be sprinkled	water tankers have been deployed	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	The mine is surrounded by vegetation of local species.		

9.0 Compliance of Rule 45

S.No.	Item	COMMENTS	Remarks
	Status of submission of Online Monthly and Annual returns	M.R. Submitted upto Nov-2024 (05.12.2024) A.R. submitted upto Year 2023-24 (04.06.2024)	-
S.No.	Item	Observation of I/Officer /Actual reported in Returns	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Jaydeep Paradwa Geologist: Santosh Kaluskar	-

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. (Ha)	Area under working pit: 13.478 Ha Waste Dump: 0.16 Ha. Infrastructure & Road: 1.85 Ha Mineral Storage & Plantation: 2.86 Ha.	-
9d	Scrutiny of Annual return on afforestation	Plantation : 500 sapling Total trees at the end of year: 1670 No.	-
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore (Tonne)	1. Cement Grade: 281343.194 MT 2. Abrasives Grade: 10057.325 MT 3. Refractory Grade: 1019.775 MT	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cement Grade: ₹ 765.33 per tonne Abrasives Grade: ₹ 940 per tonne Refractory Grade: ₹ 1070 per tonne	-
9i	Scrutiny of Annual return on fixed assets	Production cost of Rs. 1046.83 ₹/tonne	-
9k	Scrutiny of Annual return on mining machineries	Back Hoe= 1 nos. Truck= 1 Nos. Front End 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 has been analysed and found as per SOP.
- (2) No compliance is pending for earlier violations
- (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.

Sunil Kumar Sharma
Senior Assistant Controller of Mines