

MCDR INSPECTION INFORMATION SHEET

1.0 GENERAL

SN	Particulars	Details
1(a)	Name of the Mine	Avariya-II Bauxite Mine
1(b)	Name of Inspecting Officer & Designation	Pushpender Gaur, RCOM
1(c)	Accompanying Mines Representatives	Mr. Gunanand Roy (Owner Representative)
1(d)	Type of Inspection	MCDR/Star Rating
1(e)	Date of Inspection	03/01/2024
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, 2017	IBM/246/2011
5	Name of the lessee, Address, phone, email and fax number	M/s.Orient Abrasive Limited. GIDC Industrial, Area Porbandar 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	Bhatia
13	Nearest Railway station	Bhatia
14	Date of Grant of Mining Lease	07.04.1981
15	Date of Execution	05.10.1981
16	Date of opening of Mine	01.02.2015 (Reopening Date)
17	Date of first Renewal, if applicable and its period & expiry	05.06.2000
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	From J- 05.06.2000 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 Nr.Madhurma society, Dharmapur, Khambhalia- Jamnagar-361305
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Gunanand Roy w.e.f 01.08.2016 M/s.Orient abrasive Ltd. Jamnagar Dwarka Highway,Khambaliya-361305 District- Devbhumi Dwarka.(Gujarat) Mob : 9998945910 Email ID: orientkhambalia@gmail.com
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Jaydeep Paradava w.e.f 01.01.2022 M/s.Orient abrasive Ltd. Jamnagar Dwarka Highway,Khambaliya-361305 District- Devbhumi Dwarka.(Gujarat) Mob : 9879352878 Email ID: orientkhambalia@gmail.com

23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Jaydeep Paradava w.e.f 01.01.2022 M/s.Orient abrasive Ltd. Jamnagar Dwarka Highway,Khambaliya-361305
		District- Devbhumi Dwarka.(Gujarat) Mob : 9879352878 Email ID: orientkhambhalia@gmail.com
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Yes, they are satisfied the rule 42 & carrying out their duties as per rule 43 & 44.
25	Date of Approval of Mining Plan/Modified Mining Plan with fiveyear period and specific condition in approval letter, if any.	Mining Plan was approved vide letter No- 684(4)(1) MP - 396/2021-22/GNR/183 dated 13/04/2022 Validity2022-23 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(Opencast, Underground)	Opencast Working
29	Category (Fully Mechanised, Others or Manual)	Category-A (OTFM)
30	Captive/Non Captive	Captive

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

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
1a	Backlog of previous year (2021-22)	3 Trial Pit	3 Trial Pit	
1b	Exploration over lease area for Geological axis 1 or 2.	3 Trial Pit (6mx6mx6m)	3 Trial Pit(6mx6mx6m)	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Lessee itself explore the area	Lessee itself explore the area	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1-43.3821 Ha G2-3.6496 Ha G3 -3.1483	G1-43.3821 Ha G2-3.6496 Ha G3 -3.1483	Some of the area falls under encroachment.
1e	Balance reserves as on 01.04.2022	(Balance Reserves as on 01.04.2022) 1.Proved(111) = 2824860 MT 2.Probable(121&122)=785540 MT Total= 3610400 MT	(Balance Reserves as on 01.04.2023) 1.Proved(111) = 2807160 MT 2.Probable(121)=785540 MT Total= 3592700 MT	
1f	General remarks of inspecting officer on geology, exploration etc.	Shallow depth Bauxite mineralisation of 5 to 6 mts where exploration by trial pit serve the purpose.		

2.0 Development

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
2a	Location of development w.r.t. lease area	E532781 to E532776, N2457560 to N 2457406 & E533174 to E533147, N2457567 to N2457608	Working carried out as per the proposed location AV2P15.	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Top OB- one bench Bauxite- one bench	Top OB- one bench Bauxite- one bench	
2c	Stripping ratio or ore to OB ratio	1:0.23	1:0.59	
2d	Quantity of topsoil generation in m3	61 M3	NIL	
2e	Quantity of overburden generation in m3	6738 M3	5924 M3	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Shallow pit. Pit bottom at places attains full depth with lithomarge clay. OB comprises of withered limestone and yellowish clay.		

3.0 Exploitation

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
3a	Number of pits proposed for production	Proposed in AV2P2, AV2P10 & AV2P15 only	Achieved in AV2P15 only	
3b	Quantity of ROM mineral production proposed	50169 MT	17700 MT	
3c	Recovery of salable/usable mineral from ROM production	High Grade Bauxite-10% (Al ₂ O ₃ >50%) Abrasive & Refractory grade Low grade Bauxite 90% (Al ₂ O ₃ >30%) cement & other Grade	100%(with proper blending)	
3d	Quantity of mineral reject generation	No Proposals	NIL	Entire ROM has been utilised with proper blending.
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 Mechanised	Manual as well as Mechanized screening.	Static screen was found for screening of ROM.
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	Hydraulic Rock breaker is deployed for breaking of insitu material	

3k	Provision of mining machineries in mineral benches	Excavator-01 Dumper-01 JCB-01	Excavator-01 Tipper-01 JCB-01	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	1 Bench of 5 m height proposed in Bauxite. 1 Bench of 1.2 m height proposed for Overburden.	Height of bench in ore-5 m. height of bench Overburden 1 m.	
3m	Total area covered under excavation/pits	0.4845 Ha.	0.4168 Ha.	Less Production due to poor market Demand. Very small amount of Area covered for excavation.
3n	Ore to OB ratio for the pit/mine during the year	1:0.23	1:0.59	
3o	Total area put in use under different heads at the end of year	Pit-13.0619 ha Top Soil-NIL Waste/reject-0.1655 ha Mineral Storage-2.3155 ha Infrastructure & Road-1.850 ha Others(Plantation)-0.413 ha	Pit-13.478 ha Top Soil- NIL Waste/reject-0.1655 ha. Mineral Storage-2.3155 ha Infrastructure & Road-1.850 ha Others- 0.5470 ha	
3p	Production of ROM mineral during last five year period, as applicable	2018-19= 433000 MT 2019-20= 521188 MT 2020-21= 523688 MT 2021-22= 524938 MT 2022-23= 50169 MT	2018-19= 11115 MT 2019-20= 2520 MT 2020-21= 5945 MT 2021-22= 5740 MT 2022-23= 17700 MT	
3q	General remarks of inspecting officer on method of mining etc.			

4.0 Solid Waste Management- Dumping

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No Proposals	Concurrent OB	Simultaneous backfilling at AV2P7 pit.
4b	Location of topsoil, OB & mineral reject dumps	No Proposals	Entire OB generated during mining Plan period has been backfilled, Part of the mined out area as well as utilised in road preparation work.	Simultaneous backfilling
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	NA	
4e	Number of active & alive dumps	Nil	Nil	
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps stabilised	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	One garland drain constructed	Garland drain was found along northern periphery of the pits.
4i	Length of Retaining wall or garland drain all along dump	153 m	Bund 20m	

4j	Number of settling ponds	Nil	Mining Pits is being utilised as settling ponds.	
4k	Specific comments of inspecting officer			

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Partial	Partial	Area not matured for backfilled due to less production during the reporting year 2022-23
5b	Area under backfilling of mined out area	Partial	Partial	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Top soil spreading on top of the water reservoir pit will be develop for grazing land after doing Grassing	Backfilled area & other plantation area.	
5d	Total area fully reclaimed & rehabilitated	NIL	NIL	Less production
5e	General remarks of inspecting officer on backfilling, reclamation etc.			

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2022-23)	Actual work (2022-23)	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 in Annual Returns	
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	Not Proposed	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	i) 0.1346 Ha ii) No Proposals iii) 1.44 ha iv) No Proposals v) 159 M Fencing	i) 0.4164 ha ii) NIL iii) 0.2352 ha iv) NIL v) 100 M fencing vi) NIL	Violation for less fencing has been detected and given.

6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) 500 Saplings	i) 250 Sapling planted as per proposals	Violation for less survival of plant has been detected and given.
6e	Compliance of Environmental monitoring (core zone & buffer zone)	NIL	Regular Monitoring	
6f	General remarks of inspecting officer on PMCP compliance & progressive			

7.0 Mineral Conservation

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Proposal made for manual sorting and sizing.	Grade –wise manual sorting and sizing. Static screen used for systematic screening of ROM.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	
7c	Different grade of mineral sorted out at mines	Manually	Manually	
7d	Any beneficiation process at mines	Only manual sorting and sizing	Only manual sorting and sizing	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues			

8.0 Environment

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Top soil spreading on top of the water reservoir pit will be develop for grazing land after doing Grassing	No topsoil removal observed during 2022-23.	
8b	Concurrent use or storage of topsoil	Top soil spreading on top of the water reservoir pit will be develop for grazing land after doing Grassing	NA as above.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposal for no external dump of overburden and waste rock	Separate dump was found for waste material.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposal made for the backfilling of overburden/waste rock into the mined out pit.		
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Part of the mineral exhausted pit to be backfilled and remaining part to be converted into water reservoir	250 plants found survived	

8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Plantation will be done on backfilled land & in statutory barrier. The species Neem Gulmohar and other local species will be planted. One person will be deputed for post plantation care such as watering, manuring etc.	Local species has been planted on the backfilled area and post plantation care such as watering and manuring etc. Being done.	
8g	Survival rate	-	50%	
8h	Water sprinkling on roads to control airborne dust	Water to be sprinkled on the haul road to suppress the dust being getting Airborne.	Mobile water tankers have been deployed for the purpose.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			

9.0 Compliance of Rule 45

S.N	Item	COMMENTS	Remarks
.	Status of submission of Monthly and Annual returns	M.R. Submitted upto – November-2023 A.R. submitted upto- Year 2022-23	

S.N	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Found in order	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Found in order	
9d	Scrutiny of Annual return on afforestation		Found in order	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	0	Found in order	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	0	Found in order	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	713 for cement grade and 897 for abrasive grade.	Found in order	
9i	Scrutiny of Annual return on fixed assets		Found in order	
9k	Scrutiny of Annual return on mining machineries	Back Hoe excavator, Front end loader, dumper and water tanker	Found in order	

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out: - During the current inspection violation of Rule 11(1) for non compliance of fencing and less survival rate of plantation which is mentioned in this report in respected para herein above.
