

MCDR INSPECTION REPORT**1.0 GENERAL**

SN	Particulars	Details
1(a)	Name of the Mine	Kothariya Bauxite Mine (S.NO. 330/P)
1(b)	Name of Inspecting Officer & Designation	Shri Naman Ekka, Senior Mining Geologist(SMG)
1(c)	Accompanying Mines Representatives	Mr. Gunanand Roy (Owner Representative)
1(d)	Type of Inspection	Star Rating
1(e)	Date of Inspection	10/12/2024
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	62.32 Hect (Non-Forest land)
3	Mine code	07GUJ07019
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/2461/2011
5	Name of the lessee, Address, phone, email and fax number	Mis.Orient Abrasive Limited. GIDC Industrial, Area Porbandar Mob: 9998945910 Email ID: orientkhambalia(a)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	01.07.2015 (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	05.06.2000
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Manubhai Rathod 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 Mis.Orient abrasive Ltd. Jamnagar Dwarka Highway,Khambaliya-361305 District-Devbhumi Dwarka.(Gujarat) Mob: 9998945910 Email ID: orientkhambhalia@gmail.com
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Darshan Raval Mis.Orient abrasive Ltd. Jamnagar Dwarka Highway,Khambal.iya-361305 District-Devbhumi Dwarka.(Gujarat) Mob: 9998945910 Email ID: orientkhambhalia(a)email.com
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Darshan Raval Mis.Orient abrasive Ltd. Jamnagar Dwarka Highway,Khambaliya-361305 District-Devbhumi Dwarka.(Gujarat) Mob: 9998945910 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

25	Date of Approval of Mining Plan with five-year period and specific condition in approval letter, if any.	No.- 682(23) MS - 498/2009 MCCM (N) UD dated 05/12/2016 Validity-2017- 18 to 2021-22 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.	MCDR-MPCP0CaFl/20/2023-GNR-IBM_RO_GNR MP-480 Dated – 06/09/2023
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 (OTFM)
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	Remarks
la	Backlog of previous year.	11 BH	As reported 10 BH were drilled during 2023-24 and 1 BH during 2024-25	At the time of inspection drilling was going on for the year 2024-25. 4BH were drilled out of 11 BH of 2024-25
lb	Exploration over lease area for Geological axis 1 or 2.	G1	G1	
le	Exploration Agency & Expenditure in lakh Rupees during the year	Ashapura Minechem Limited	Ashapura Minechem Limited	
ld	Balance area to be explored to bring Geological axis in 1 or 2	10.87 Ha. to be explored in G1	Remaining 10.87 Ha. To be explored in G1	
le	Balance reserves as on 01/04/2023	Reserve - 4182812 Tones	Reserve - 4292262	During the Year 2023-24 109450 tones were assessed as a outcome of drilled BH and converted to 111 Category.
1f	General remarks of inspecting officer on geology, exploration etc.	Exploration activity is being carried out.		

2 0 Development

SN	Item	Proposals (2023-24)	Actual work	Remarks
2a	Location of development w.r.t. lease area	Proposed in Pit PP1	No work in the proposed pit has been carried out	No work has been carried out due to Lack of demand
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Top Soil- one bench Top OB- one bench Bauxite- one bench	No benches available in the proposed Pit	
2c	Stripping ratio or ore to OB ratio	1:0.8	NIL	
2d	Quantity of topsoil generation in m3	1784 m ³	NIL	
2e	Quantity of overburden generation in m3	7005 m ³	NIL	Less Production due to poor market Demand
2f	General remarks of inspecting officer	Development of PIT is Lagging Behind as per proposal for 2023-24		

SN	Item	Proposals (2023-24)	Actual work	Remarks
3a	Number of pits proposed for production	1 pit	No work in the proposed pit has been carried out	
3b	Quantity of ROM mineral production proposed	102437.5 Tons	50 Tons	
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	
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	
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	Jack hammer drilling - One compressor-One	Hydraulic Rock breaker is deployed for breaking of in-situ material	
3k	Provision of mining machineries in mineral benches	Excavator-03 Tipper-06 JCB-1	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 5.5 m height proposed in Bauxite. 1 Bench of 1 m height proposed for Overburden.	No work in the proposed pit has been carried out	
3m	Total area covered under excavation/pits	0.80 Ha.	No work in the proposed pit has been carried out	Less Production due to poor market Demand.
3n	Ore to OB ratio for the pit/mine during the year	1:0.6	NIL	
3o	Total area put in use under different heads at the end of year	Pit-15.58 ha Top Soil-NIL Waste/reject-0.8 ha Mineral Storage-1.75 ha Infrastructure & Road-2.lha Others-0.6118 ha	Pit-15.80 ha Top Soil- NIL Waste/reject-NIL. Mineral Storage-1.1543 ha Infrastructure & Road- NIL Others- 0.138 ha	

3p	Production of mineral during last five-year period, as applicable (in million tonnes)	2019-20= 0.410025 2020-21= 0.410094 2021-22= 0.411648 2022-23- 0.411000 2023-24 - 102437	2019-20= NIL 2020-21= NIL 2021-22= 0.025545 2022-23- NIL 2023-24 - 0.000050 Tons	
3q	General remarks of inspecting officer on method of mining etc.	Method of Mining is as per proposal.		

4.0 Solid Waste Management-Dumping

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SN	Item	Proposals (2023-24)	Actual work	Remarks
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4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Concurrent use of OB top soil & proposed.	No work in the proposed pit has been carried out	
4b	Location of topsoil, OB & mineral reject dumps	OB generated during mining Plan period will be backfilled in SW part of the mined out area	No work in the proposed pit has been carried out	
4c	Number of dumps within lease area and outside lease area	Not proposed	Nil	No Dump found in entire lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	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	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	Concurrent OB & top soil used.		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2023-24)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Full Extraction	Partial Backfilling has been done	Area not matured for backfilled due to less production.
5b	Area under backfilling of mined out area	10.0 Ha.	Partial Backfilling has been done	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Top soil to be utilised on backfilled area.	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.	Partial Backfilling has been done which is also lagging as per proposal.		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2023-24)	Actual work	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	Yes ,Submitted within time	
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ti) 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 XBX 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) 2.9938 Ha ti) 0.8871 Ha iii) 0.150 ha iv) 2.1067 Ha v) 850 Fencing	i) 2.84 Ha. ii) 0.06 ha iii) 0.138 ha iv) NIL v) 800 m	Less production due to Poor market demand.
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) 500 Saplings	i)500 Sapling planted as per proposals	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	NIL	Quarterly Environmental Monitoring Done	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Protective Measures on Closure plan is as per proposal.		

7 0 Mineral Conservation

SN	Item	Proposals (2023-24)	Actual work	Remarks
?a	ROM Mineral dispatch or grade- wise sorting within lease area	Proposal made for manual sorting and sizing	Grade -wise manual sorting and sizing is being practiced	Manual Sizing and sorting done
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	Grade -wise manual sorting and sizing is being practiced.		

8.0 Environment

S.N.	Item	SN	Item
8a	Separate removal of topsoil (Rule 32)	removal and spreading of top soil on the backfilled area.	As per the proposal
8b	Concurrent use or storage of topsoil	In approved MP soil was proposed to spread on backfilled area.	As per the proposal
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposal for no external dump of overburden and waste rock	As per the proposal
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.	As per the proposal
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	As per the proposal
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	-	55%
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	Mines is surrounded by little vegetation and shrubs of local variety. The climate is semi-arid.	

9.0 Compliance of Rule 45

S. N.	Item	COMMENTS		Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto – Nov. 2024 A.R. submitted upto- Year 2023-24		
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	ME- Shri Yatin Gohel Geologist - Shri Santosh Kaluskar	ME- Shri Yatin Gohel Geologist - Shri Santosh Kaluskar	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O/C) Workings - 15.80 Ha.	Covered under current (O/C) Workings - 15.80 Ha.	
9d	Scrutiny of Annual return on afforestation	Number of trees planted during the year - 500 Survival Rate - 80 %	Number of trees planted during the year - 500 Survival Rate - 80 %	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	NIL	NIL	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Graded Ore (Closing Stock) Cement – 422092 Abrasive - 3254	Graded Ore (Closing Stock) Cement – 422092 Abrasive - 3254	

9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-Mine Price Cement – 950.00 Abrasive - 940.00	Ex-Mine Price Cement - 950.00 Abrasive - 940.00	
9i	Scrutiny of Annual return on fixed assets	Value of Fixed Assets (in Rs.) 168175319 Depreciation on fixed assets (in Rs.) 495000	Value of Fixed Assets (in Rs.) 168175319 Depreciation on fixed assets (in Rs.) 495000	
9k	Scrutiny of Annual return on mining machineries	SHOVEL (HYDRAULIC) TRUCK FRONT END LOADER WATER TANKER	SHOVEL (HYDRAULIC) TRUCK FRONT END LOADER WATER TANKER	

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

No Violation Observed. Evaluated in 3 Star. Drone data has been analyzed and comments have been offered in DDMS Portal; Data has been analyzed and submitted on MIDPAS Portal.

Digitally signed by
Naman Ekka
Date: 22-07-2025
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SMG