

MCDR INSPECTION REPORT**1.0 GENERAL**

S.No.	Particulars	Details
1(a)	Name of the Mine	Nandana-I Bauxite Mine (S.NO. 529/P)
1(b)	Name of Inspecting Officer & Designation	Sunil Kumar Sharma, Senior Assistant Controller of Mines
1(c)	Accompanying Mines Representatives	Mr. Gunanand Roy (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	50.83 Hect (Non-Forest Land)
3	Mine code	07GUJ07045
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, Fort Mumbai-400001 Mob: 9998945910 Email ID: orientkhambalia@gmail.com
6	Village	Nandana
7	Taluka/Mandal	Kalyanpur
8	District	Devbhumi Dwarka
9	Pin code	350315
10	State	Gujarat
11	Post office	Nandana
12	Nearest police station	Kalyanpur
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	05.10.1981
17	Date of first Renewal, if applicable and its period & expiry	05.06.2000 & lease period valid up to 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-85)-CHH dated on 03/04/2018 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 Ajay A. Zala ; DOA: 25.08.2023 M/s.Orient abrasives Ltd., Nandana-I Bauxite mines, Nandana, Kalyanpur-361315 District- Devbhumi Dwarka. (Gujarat)

		Mob:8153053013 Email ID: ajayzala.za@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 Ajay A. Zala BE Mining Engineering DOA: 25.08.2023 M/s.Orient abrasives Ltd., Nandana-I Bauxite mines, Nandana, Kalyanpur-361315 District- Devbhumi Dwarka. (Gujarat) Mob:8153053013 Email ID: ajayzala.za@gmail.com
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes Ram Singh Parihar (Geologist) M.Sc. Geology; DOA: - 04.10.2023 Mobile No. 8770949674
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-405/2021-22/GNR/177. Period 2022-23 to 2026-27.
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
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 (5m x 5m x 6m)		03 Bore hole Carried out	
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 - 42.85 Ha G-2 - 7.48 Ha G-3 - 0.60 Ha		G-1 - 45.33 Ha G-2 - 5.50 Ha	All area converted to G-2 & G-1.
1e	Balance reserves as on 01.04.2024	UNFC code	Reserves/Resources		
		111	2340491 tonne		
		122	221841 tonne		
		221	909763 tonne		
		222	330366 tonne		
		Total	3,802,461 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 (2023-24)	Actual work (2023-24)	Remarks
2a	Location of development w.r.t. lease area	N 2451407 to N451258 & E527903 to E527852	N2451360 to N2451302 & E527918 to E527785	-
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Top Soil- one bench Bauxite- one bench	Bauxite- one bench	-
2c	Stripping ratio or ore to OB ratio	1:0	1:0	-
2d	Quantity of topsoil generation in m ³	8165 m ³	0 m ³	-
2e	Quantity of overburden generation in m ³	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

S.No.	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
3a	Number of pits proposed for production	One pit (Pit no. N1 P4)	One pit (Pit no. N1 P4)	-
3b	Quantity of ROM mineral production proposed (in tonnes)	127371 MT	22000 MT	
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 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	No Proposals	NIL	-
3k	Provision of mining machineries in mineral benches	Rock Breaker-1 Excavator-01 Tipper-02 JCB-2 Water Tanker-1	Back Hoe with Rock-breaker attachment : 1 Truck:1 Front End Loader: 1 Water Tanker: 1	-

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 5 m height in Bauxite.	-
3m	Total area covered under excavation/pits	19.1258 Ha	17.430 Ha	-
3n	Ore to OB ratio for the pit/ mine during the year	1:0	1:0	-
3o	Total area put in use under different heads at the end of year	Pit-19.1258 Ha Top Soil-NIL Waste/reject-NIL Mineral Storage-3.9098 ha Infrastructure & Road-1.8573 ha Other to specify (Plantation)- 0.4261 ha	Pit-17.43 Ha. Top Soil-NIL Waste/reject-NIL Mineral Storage-3.9098 ha Infrastructure & Road-1.8573 ha Plantation- 0.5185 ha.	-
3p	Production of ROM mineral during last five-year period, as applicable (int tonnes)	2019-20: 525015 tonne 2020-21: 527830 tonne 2021-22: 331065 tonne 2022-23: 127945 tonne 2023-24: 127371 tonne	2019-20: 0 t 2020-21: 15770 t 2021-22: 11680 t 2022-23: 12250 t 2023-24: 22000 t	-
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

No Solid Waste Management Dumping				
S.N o.	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Not proposed	Nil	-
4b	Location of topsoil, OB & mineral reject dumps	Not proposed	Nil	
4c	Number of dumps within lease area and outside lease area	Not proposed	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	Nil	
4e	Number of active & alive dumps	Not proposed	Nil	
4f	Number of dead dumps	Not proposed	Nil	
4g	Number of dumps stabilized	Not proposed	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Not proposed	NIL	
4i	Length of Retaining wall or garland drain all along dump	Not proposed	NIL	
4j	Number of settling ponds	Not proposed	NIL	
4k	Specific comments of inspecting officer	There is no proposal of waste dumping. During inspection, it is found that no dump of OB, waste and topsoil was found.		

5.0 Solid Waste Management-Backfilling

S.No.	Item	Proposals	Actual work	Remarks
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		(2023-24)	(2023-24)	
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Pit No. N1P10	Nil	Waste or topsoil is not available for backfilling.
5b	Area under backfilling of mined out area	1.1564 Ha.	Nil	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	47124 m ³	Nil	Top soil is not generated during the year.
5d	Total area fully reclaimed & rehabilitated	0	0.1585 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.		

6.0 Progressive Mine Closure Plan

S.No.	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 item No. 8.3 of PMCP (approved on last occasion,	Yes Submitted	Submitted in online Annual Return 2023-24 on 10/06/2024	-
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	0.15 Ha 0.35 Ha 500 No. 2500 No. - -	0.1585 Ha. 0.45 Ha 775 No. 2495 No. - -	
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	11564 Sq.M 1500 Sq.M 500 Sapling No Proposals -	11564 Sq.M 1585 Sq.M Nil Nil -	-
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	No Proposal	Nil	-
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Monitoring of Ambient air quality, water quality and noise quality.	Quarterly Monitoring is being Carried out	-
6f	General remarks of inspecting officer on PMCP compliance & progressive	During the inspection, it was found that the plantation work for the year 2023-24 was carried out at near		

	location E527400, N2451306.
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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 (in tonnes)	Proposal made for manual sorting and sizing.	Manual sorting and sizing.	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	Cement, Abrasives, Refractory	Cement, Abrasives, Refractory	
7d	Any beneficiation process at mines	Manual sorting and sizing	Manual sorting and sizing	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Manual Sizing and sorting is carried out.		

8.0 Environment

S.No.	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and spreading of top soil on the backfilled area.	No topsoil generated during the year.	
8b	Concurrent use or storage of topsoil	To 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 dump for restoring the land to its original use	No Proposal	Nil	
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	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 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 are	The mine is surrounded by vegetation of local species. Climate is semi-arid.		

9.0 Compliance of Rule 45

S.No.	Item	COMMENTS	Remarks
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	Status of submission of Online Monthly and Annual returns	M.R. Submitted upto 05.12.2024 A.R. submitted upto Year -2023-24 (10.06.2024)	-
S.No.	Item	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Ajay Zala Geologist: Ramsingh Parihar Mines Manager: Ajay Zala	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. (Ha)	Covered under current working: 17.43 Ha. Infrastructure: 1.857 Ha. Plantation & Mineral storage: 4.428 Ha.	
9d	Scrutiny of Annual return on afforestation	Plantation carried out 0.092Ha	
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)	<u>Grade-wise stock</u> 1. Cement Grade: 210365.456 MT 2. Abrasives Grade: 12906.140 MT 3. Refractory Grade: 6871.330 MT	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cement Grade: ₹ 950 per tonne Abrasives Grade: ₹ 940 per tonne Refractory Grade: ₹ 930 per tonnes	
9i	Scrutiny of Annual return on fixed assets	Building: ₹ 9,89,536/-	
9k	Scrutiny of Annual return on mining machineries	Excavator Back Hoe: 1 nos. (1.1 m ³) Truck: 1 Nos. (20 tonne) Front End Loader: 1 Nos. (0.36 m ³) Water Tanker: 1 Nos. (4000 litre)	

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

नियम सं.	उल्लंघन के प्रकार का विस्तृत ब्यौरा
48(1)	The holder of a mining lease 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