

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1 (a)	Name of the Mine	Palakhada Bauxite Mine
1 (b)	Name of Inspecting officer & Designation	M/s. Pushpender Gaur (Regional Controller of Mine)
1 (c)	Accompanying Mines Representatives	Shri Shailesh kumar V. Dave
1 (d)	Type of Inspection	Star Rating
1 (e)	Date of Inspection	19/12/2024
2	Total Lease Area (Ha) with breakup of non-forest and forest land	65.3971 Ha
3	Minecode	07GUJ08004
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/927/2011
5	Name of the lessee, Address, phone, email and fax number	Saurashtra Minerals Private Limited, East Kadia Plots-Porbandar, 9925342642, saurashtra1951@gmail.com
6	Village	Palakhada
7	Taluka/Mandal	Porbandar
8	District	Porbandar
9	Pincode	360579
10	State	Gujarat
11	Post office	Ratdi
12	Nearest police station	Bagvodar
13	Nearest Railway station	Porbandar
14	Date of Grant of Mining Lease	14.08.1981
15	Date of Execution	16.11.1981 for 20 years up to 15-11-2001
16	Date of opening of Mine	01.04.1982
17	Date of first Renewal, if applicable and its period & expiry	16-11-2001 to 15-11-2001
18	Date of second Renewal, if applicable and its period & expiry	-
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Extended till 15.11.2031
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Bhavin H. Thanki, East Kadia Plots – Porbandar,9825230344, saurashtra1951@gmail.com,0286-2245237
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Dipesh R. Tanna, Jalaram Colony – Porbandar,9925342642
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Shaileshkumar V. Dave, Ranapar Ta:Bhanvad Dist. Devbhumi Dwarka, dsminingengineear@gmail.com,7567736799
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Shaileshkumar V. Dave, Ranapar Ta:Bhanvad Dist. Devbhumi Dwarka, dsminingengineear@gmail.com,7567736799
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes Mrs Hema Kapuria
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific	684(4) (1)/MP-318/2020-21-GNR, Dated 02/03/2021.

Handwritten signature and date: 26/3/25

	condition in approval letter, if any.	
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	NA
27	Mineral(s) granted in lease and proved for mining	Bauxite
28	Method of Mining (Opencast, Underground)	Opencast
29	Category (Fully Mechanised, Others or Manual)	Mechanised
30	Captive/Non-Captive	Non-Captive

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

Exploration

SN	Item	Proposals of (2023-24)	Actual work	Remarks
1a	Backlog of previous year	Nil	NA	
1b	Exploration over lease area for Geological axis 1 or 2.	Five Pits 6m x 6m x 6m up to lithomargic clay	Not done	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	0.66 ha	Nil	
1e	Balance reserves as on 01.04.2024	UNFC Code: 111- 2652973.4 Tonnes 122- 1339800 Tonnes 211- 836932 Tonnes		
1f	General remarks of inspecting officer on geology, exploration etc.	13.80 Ha area is there in G2 level mentioned in Mining plan. Exploration activity is mentioned Nil in Annual Return and PMCP report. Violation of 11(1) is found.		

2.0 Development

SN	Item	Proposals of (2023-24)	Actual work	Remarks
2a	Location of development w.r.t. lease area	Pit No-01 367 W to 8.0 E 400 S to 650 S	Actual work location- 367 W to 8.0 E 400 S to 650 S	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Yes 1m bench height in Topsoil and 5.5m bench height in Mineral	Bench height in Topsoil- Nil Bench height in Mineral-5 m	
2c	Stripping ratio or ore to OB ratio	1:0.18	1:0.18	
2d	Quantity of topsoil generation in m3	23600	4825	Used in Plantation
2e	Quantity of overburden generation in m3	No Proposal	Not Applicable	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Location visited, mine operation with benching were observed, stacks of various grade of bauxite observed.		

3.0 Exploitation

SN	Item	Proposals of (2023-24)	Actual work (2023-24)	Remarks
3a	Number of pits proposed for production	One 367 W to 8.0 E 400 S to 650 S	One 367 W to 8.0 E 400 S to 650 S	
3b	Quantity of ROM mineral production proposed	285560 TONNE	178750.600 TONNE	
3c	Recovery of saleable/usable	95%	178750.600 Tonne	Cement Grade

	mineral from ROM production	285560 Tonne		
3d	Quantity of mineral reject generation	5% 14278 Tonne	Nil	
3e	Grade of mineral reject generation and threshold value declared	No Proposal	Not Applicable	
3f	Quantity of sub-grade mineral generation	No Proposal	Not Applicable	
3g	Grade of sub-grade mineral generation	No Proposal	Not Applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Proposal	Not Applicable	
3j	Provision of drilling & blasting in mineral benches	No Proposal	Not Applicable	
3k	Provision of mining machineries in mineral benches	Back hoe, Dumper, Wheel Loader, Water tanker	Back hoe, Dumper, wheel Loader, Water tanker	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	5.5m in Mineral	Bench formed as per the proposal.	Found ok during mines inspection.
3m	Total area covered under excavation/pits	-	14.815 Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:0.18	1:0	
3o	Total area put in use under different heads at the end of year	-	Covered under current (O-C) Workings- 14.815 ha Minerals Stock- 0.381 ha Work done under PMCP- 2.410 ha	
3p	Production of ROM mineral during last five-year period, as applicable	2022/23-255658 Tonne 2023/24-285560 Tonne	2022/23-178770.500 Tonne 2023/24-178750.600 Tonne	
3q	General remarks of inspecting officer on method of mining etc.	Mining operation is found with Back-hoe excavator and with tipper combinations at mineral benches. The excavation has been found outside the proposed area for F.Y. 2023-24. Hence 11(1) is Found.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals of (2023-24)	Actual work (2023-24)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject	Yes	Topsoil, OB and mineral rejects are separately dump dumped.	NA
4b	Location of topsoil, OB & mineral reject dumps	Back filling in workout pits	Concurrent use of top soil for plantation, OB and mineral reject is back filled.	
4c	Number of dumps within lease area and outside lease area	3	3	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Pit 1	Pit 1	
4e	Number of active & alive dumps	1	1	
4f	Number of dead dumps	2	2	

4g	Number of dumps established	2	2	
4h	Whether Retaining wall or garland drain all along dumps are there	No Proposal	Not Applicable	
4i	Length of Retaining wall or garland drain all along dump	No Proposal	Not Applicable	
4j	Number of settling ponds	No Proposal	Not Applicable	
4k	Specific comments of inspecting officer			

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals of (2023-24)	Actual work (2023-24)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Nil	NA	
5b	Area under backfilling of mined out area	2.36 ha	2.36 ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	For plantation	Utilized for plantation	
5d	Total area fully reclaimed & rehabilitated	-	4.33 ha	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Backfilling has been carried out in 2.36 ha area and 4.33 ha of area fully reclaimed & rehabilitated.		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals of (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.	Yes	Yes, Submitted along with Annual Return	
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	2.3600 Ha. 0.0500 Hect. 100 400 Water reservoir 5000	2.3600 Ha. 0.0500 Hect. 100 3680 Water reservoir Rs. 120000.00	
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 Proposal	Not Applicable	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation	No Proposal	Not Applicable	

	ii) Area rehabilitated (ha) iii) Method of rehabilitation			
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Core Zone with in limit – Ambient Air Quality, Surface water Quality, Ground water quality, Noise level, Noise vibration to be monitor and should be in limit.	Done	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Found satisfactory. Green-belt development was also satisfactory.		

7.0 Mineral Conservation

SN	Item	Proposals of (2023-24)	Actual work (2022-22)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	285560 Tonne	178750.600 Tonne	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No Proposal	Not Applicable	
7c	Different grade of mineral sorted out at mines	No Proposal	Not Applicable	
7d	Any beneficiation process at mines	No Proposal	Not Applicable	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	There is no issue in mineral conservation.		

8.0 Environment

SN	Item	Proposals of (2023-24)	Actual work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil	23600 m ³	4825 m ³	Utilized for plantation
8b	Concurrent use or storage of topsoil	For plantation	For plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37(1))	No Proposal	Not Applicable	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	Not Applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes, as per PMCP Plantation 100 Nos	Yes, as per PMCP Plantation 100 Nos	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Additional Plantation 100 Nos	Additional Plantation 100 Nos Cumulative No of Plants- 3680	
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Plantation work is satisfactory.		

9.0 Compliance of Rule 45

S.N	Item	COMMENTS		Remarks
9a	Status of submission of Online Monthly and Annual returns	M.R. Submitted till Dec-2024 on 07-01-2025 A.R. of 2023-24 was submitted on 28-06-2024.		
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	Mines Manager/ Mining Engineer - Shri Shaileshkumar V. Dave Geologist - Mrs Hema Kapuria		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O-C) Workings- 14.815 ha Minerals Stock- 0.381 ha Work done under PMCP- 2.410 ha		
9d	Scrutiny of Annual return on afforestation	Number plants- 100(inside lease area), Survival rate- 80% Cumulative no of plants- 3680		
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM O/S & C/S- NIL Cement Grade wise O/S- 51620.605 Tonne, C/S- 82650.545 Tonne		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale value- Rs. 70354024.53 EMP- Rs. 874.72/- per tonne Production cost- Rs 516.96. /- per tonne		
9i	Scrutiny of Annual return on fixed assets	₹ 3886000		
9k	Scrutiny of Annual return on mining machineries	Back hoe, Dumper, wheel Loader, Water tanker		

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

- Violation was issued on 23-03-2024 and the same has been complied on 25-04-2024.
- During current inspection, violation under Rule 11(1) is found Excavation found outside proposed area and exploration not done.
- The Drone data has been submitted on 24-06-2024.
- Self-assessment date of Star Rating is 28-06-2024 and Rating given the Lessee is 4. It has been evaluated and given 3 Star.
- In Southern portion of the ML some excavation observed in Drone data going outside lease area. Letter has been issued to the State Govt dated 28.03.2025.

Pushpender Gaur
Regional Controller of Mines
Indian Bureau of Mines