

**MCDR report**

**1.0 GENERAL**

SN	Particulars	Details
1	Name of the Mine	Palakhada Bauxite Mine
2	Inspecting officer with date & Type of inspection	Sh. Snehal Kumar Patel, AME, 02-08-2022, MCDR
2A	Total Lease Area (Ha) with breakup of Non-forest and forest land	65.3971 Ha. Non Forest
3	Mine code	07GUJ08004
4	IBM Registration Number under rule 45 of MCDR, 2017	IBM/927/2011
5	Name of the lessee, Address, phone, email and fax number	Saurashtra Minerals Private Limited, East Kadia Plots, Dist.-Porbandar, Mob.:9925342642, saurashtra1951@gmail.com
6	Village	Palakhada
7	Taluka/Mandal	Porbandar
8	District	Porbandar
9	Pin-code	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
16	Date of opening of Mine	01.04.1982
17	Date of first Renewal, if applicable and its period & expiry	16.11.2001 - Deemed renewed
18	Date of second Renewal, if applicable and its period & expiry	The Lease Period is now extended up to 15.11.2031 as per MMDR Amendment Act, 2015
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	16.11.2021 extended till 15.11.2031
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	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	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	Shaileshkumar V. Dave, Ranapar Ta:Bhanvad Dist. Devbhumi Dwarka, shaileshdave786@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	Shaileshkumar V. Dave, Ranapar Ta:Bhanvad Dist. Devbhumi Dwarka, shaileshdave786@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
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	684(4)(1)/MP-318/2020-21-GNR Dated 02/03/2021.
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Review of Mining Plan No. 684(4)(1)/MP-318/2020-21-GNR Dated 02/03/2021 period from 2021-22 to 2025-26
27	Mineral(s) granted in lease and proved for mining	Bauxite
28	Method of Mining(Open cast, Underground)	Open cast
29	Category (Fully Mechanised, Others or Manual)	Mechanised.
30	Captive/Non Captive	Non-Captive

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

**1.0 Exploration**

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
1a	Backlog of previous year	Nil	Nil	Nil
1b	Exploration over lease area for Geological axis 1 or 2.	65.39Ha G1/G2 Entire potential area is explored in either G1/G2 level	65.39Ha G1/G2 Entire potential area is explored in either G1/G2 level	65.39Ha G1/G2 Entire potential area is explored in either G1/G2 level

*(Signature)*



1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not Proposed	Nil	By trial pits and borehole done past
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Nil
1e	Reserves extracted	(111, 121 & 122)- 4350294 tonne, (221)- 836932 tonne.		As per annual return.
1f	General remarks of inspecting officer on geology, exploration etc.	Entire lease area is explored in G1/G2 level of exploration by way of mine pits developments & exploratory trial pits.		

Total area put  
different heads  
Production of ROM  
during last fin  
applicable  
3p  
3q

### 2.0 Development

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
2a	Location of development w.r.t. lease area	E/W 50-550 N/S 525-800	E/W 50-550 N/S 525-800	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Yes	Negligible top soil, separate bench for OB in maintained.	
2c	Stripping ratio or ore to OB ratio	1:0.16	1.016	
2d	Quantity of topsoil generation in m3	Not Proposed	Nil	
2e	Quantity of overburden generation in m3	18400	--	Approximate work done.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Pit -1 observed. No top soil & OB separately stack.		

### 3.0 Exploitation

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
3a	Number of pits proposed for production	One	One	--
3b	Quantity of ROM mineral production proposed	2,50,000 Tonnes	1,78,600	--
3c	Recovery of salable /usable mineral from ROM production	95%	100%	Cement Grade
3d	Quantity of mineral reject generation	5%	Nil	No mineral rejects observed.
3e	Grade of mineral reject generation and threshold value declared	Above THV & below cut-off grade bauxite	THV-Al <sub>2</sub> O <sub>3</sub> 20%(Min) & SiO <sub>2</sub> (total)-7%	No mineral rejects observed.
3f	Quantity of sub-grade mineral generation	Nil	Nil	---
3g	Grade of sub-grade mineral generation	Nil	Nil	---
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised / manual both.	Mechanised / manual both.	---
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not Proposed.	--	---
3j	Provision of drilling & blasting in mineral benches	Not Proposed.	--	---
3k	Provision of mining machineries in mineral benches	Rock Breaker, Excavator, Loader and Tipppers.	As proposed.	---
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Mechanised working with regular bench height.	Bench heights maintain.	---
3m	Total area covered under excavation/pits	10.5848 Ha	Total excavated area is about 10.5448 Ha.	---
3n	Ore to OB ratio for the pit/mine during the year	1:0.16	As proposed.	---

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3o	Total area put in use under different heads at the end of year	10.5848 Ha	As proposed.	---
3p	Production of ROM mineral during last five-year period, as applicable	2017-18 - 138424 Tonn. 2018-19 - 140166 Tonn. 2019-20 - 141328 Tonn. 2020-21 - 142974 Tonn. 2021-22 - 250800 Tonn	2017-18 - 16680 Tonn. 2018-19 - 20124 Tonn. 2019-20 - 2000 Tonn. 2020-21 - 169950 Tonn. 2021-22 - 178600 Tonn	Violation already issued to excess production on 27-05-2021.
3q	General remarks of inspecting officer on method of mining etc.	Violation under provision of Rule 45(7) Pointed out for rectification.		

#### 4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Not proposal.	--	---
4b	Location of topsoil, OB & mineral reject dumps	Not proposal.	--	---
4c	Number of dumps within lease area and outside lease area	None.	--	---
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not applicable.	--	---
4e	Number of active & alive dumps	Not proposal.	--	---
4f	Number of dead dumps	Nil	--	---
4g	Number of dumps stabilised	Not proposal.	--	---
4h	Whether Retaining wall or garland drain all along dumps are there	Not proposal.	--	---
4i	Length of Retaining wall or garland drain all along dump	Not proposal.	--	---
4j	Number of settling ponds	Rain water storage in mined pits	Rain water stored in mined pits	---
4k	Specific comments of inspecting officer	No OB/Waste proposed & generated. Entire ROM is utilising by proper blending as per quality requirement.		

#### 5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not proposed.	Existing pit already filled with rain water.	---
5b	Area under backfilling of mined out area	NIL	NIL	---
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	--	Utilized for plantation	---
5d	Total area fully reclaimed & rehabilitated	--	--	---
5e	General remarks of inspecting officer on backfilling, reclamation etc.	OB is utilising for backfilling the mineral exhausted pits. Entire ROM is utilising by proper grading as per quality requirement.		

#### 6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2021-22)	Actual work (2021-22)	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.	Proposed	Yes Submitted on 21-06-2022.	---

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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	0.0500 Ha. 0.0500 Ha. 100 300 -- --	0.0500 Ha. 0.0500 Ha. 100 3200 -- 140000	---
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	Not proposal.	--	---
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	0.0500 Ha. 100 Plantation in periphery of the lease area.	0.0500 Ha. 100 Plantation in periphery of the lease area.	Plantation is being done.
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Periodically monitoring as per IBM/MoEF guidelines. Periodically monitoring as per IBM/MoEF guidelines.	Periodically monitoring as per IBM/MoEF guidelines. Periodically monitoring as per IBM/MoEF guidelines.	---
6f	General remarks of inspecting officer on PMCP compliance & progressive	Observed plantation area, PMCP report & annual return.		

### 7.0 Mineral Conservation

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	2,50,000 Tonnes	1,78,600 Tonnes	Lessee is utilizing entire ROM by proper sorting & sizing as per plant requirement.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanised mining and Manual breaking and Segregation	Mechanised mining and Manual breaking and Segregation	
7c	Different grade of mineral sorted out at mines	Stacking for sorting & sizing	Stacking for sorting & sizing	
7d	Any beneficiation process at mines	NA	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Lessee is utilizing entire ROM by proper stacking, sorting & sizing as per buyer's requirement.		

### 8.0 Environment

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed.	--	Whatever little top soil is generated, directly used for plantation purposes.
8b	Concurrent use or storage of topsoil	Not proposed.	--	

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8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NA	Negligible quantity found.	---
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	Nil	---
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)	As per PMCP Plantation 100 Nos	Plantation 100 Nos	---
8g	Survival rate	90%	90%	---
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	Entire OB & top soil is directly used for backfilling & further plantation purposes over the mineral exhausted pits.		

### 9.0 Compliance of Rule 45

S. N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted till June-22 A.R. of 2021-22 submitted		---
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	No	*Scrutiny of annual return for the year 2021-22 has been carried out & deficiencies pointed out to lessee for rectification.	Violation observes Rule 45(7).
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	No		
9d	Scrutiny of Annual return on afforestation	No		
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	No		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	No		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	No		
9i	Scrutiny of Annual return on fixed assets	No		
9k	Scrutiny of Annual return on mining machineries	No		

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out: - During the inspection observed violation of rule 45(7) pointed out for rectifications. Further Violation under provision of Rules 11(1), 26(2), 27(2) read with 27(1), 33 & 55(3)(1) pointed out by this office on 06.05.2022 & complied on 18-07-2022 & 27-07-2022.

  
 (सुहेल पटेल/ Snehal Patel)

दिनांक / Date: 24-08-2022

सहायक खनन अभियंता/ Assistant Mining Engineer  
 भारतीय खान ब्यूरो / Indian Bureau of Mines