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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	Sunil Sharma (Sr. Asst. Controller of Mine, IBM)
1 (c)	Accompanying Mines Representatives	Saurashtra Minerals Private Limited
1 (d)	Type of Inspection	Star Rating/ MCDR
1 (e)	Date of Inspection	19.12.2023
2	Total Lease Area (Ha) with breakup of non-forest and forest land	65.3971 Hectare (Forest Land – Nil); (Non Forest Land- 65.3971 Hectare)
3	Mine code	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
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
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.	Bhavin H. Thanki, East Kadia Plots, Porbandar, 9825230344, saurashtra1951@gmail.com .
21	Name of the Mine Agent with Address, phone, email.	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.	No, Violation has been observed under Rule 55 for appointment of geologist.
25	Date of Approval of Mining Plan/Modified Mining Plan with	684(4)(1)/MP-318/2020-21-GNR Dated 02/03/2021.

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	five-year period and specific 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.	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 (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 (2022-23)	Actual work	Remarks		
1a	Backlog of previous year	Nil	Nil	-		
1b	Exploration over lease area for Geological axis 1 or 2.	Proposal of 17 boreholes as Form I submitted on 15.11.2022.	Submission of Geological report is still pending.	Violation observed under Rule 12(4).		
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No proposal	NA	-		
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	NA	-		
1e	Balance reserves as on 01.04.2023	As on 01.04.22	As on 01.04.23	-		
		111	3010494		111	2831724
		122	1339800		122	1339800
		211	836932		211	836932
1f	General remarks of inspecting officer on geology, exploration etc.	17 boreholes were drilled in the year 2022-23 as per submitted Form I. Geological report is still pending. Violation observed under Rule 12 (4).				

2.0 Development

SN	Item	Proposals of (2022-23)	Actual work	Remarks
2a	Location of development w.r.t. lease area	E/W 417-32 N/S 453-747	E/W 417-32 N/S 453-747	-
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	1:0.18	1:0.06	-
2d	Quantity of topsoil generation in m ³	4627	4010 approx.	Used in Plantation
2e	Quantity of overburden generation in m ³	14073	10360 approx.	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	-		

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3.0 Exploitation

S N	Item	Proposals of (2022-23)		Actual work (2022-23)		Remarks
3a	Number of pits proposed for production	One		One		Nil
3b	Quantity of ROM mineral production proposed	2,55,658 Tonnes		1,78,770.500		Nil
3c	Recovery of salable/usable mineral from ROM production	100%		100%		Cement Grade
3d	Quantity of mineral reject generation	0		0		No mineral rejects generated
3e	Grade of mineral reject generation and threshold value declared	Nil		Nil		No mineral rejects generated
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	NA		NA		---
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Nil		Nil		---
3j	Provision of drilling & blasting in mineral benches	Nil		Nil		---
3k	Provision of mining machineries in mineral benches	Yes		With Rock Breaker attachment, Excavator, Loader and Tippers		---
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes		Yes		---
3m	Total area covered under excavation/pits	12.4548 Ha		10.71 Ha.		---
3n	Ore to OB ratio for the pit/mine during the year	1:0.18		1:0.06		---
3o	Total area put in use under different heads at the end of year	12.4548 Ha		10.71 Ha. (Covered under Pit) 1.15 Ha (Mineral Stack)		---
3p	Production of ROM mineral during last five-year period, as applicable	2018-19	138424 T	2018-19	16680 T	--
		2019-20	140166 T	2019-20	20124 T	
		2020-21	141328 T	2020-21	2000 T	
		2021-	142974 T	2021-	169950 T	

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		22		22	
		2022-23	255658 T	2022-23	178770.5 T
3q	General remarks of inspecting officer on method of mining etc.	During inspection it was observed that mining operation was carried out with rock breaker, backhoe (0.9 m ³) and Dumper (17 T) in mineral bench. Bench height of bauxite was about 5m as proposed.			

4.0 Solid Waste Management-Dumping

SN	Item	Proposals of (2022-23)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject	No mineral reject, top soil utilised for plantation and OB dump on statutory barrier.	10360 m ³ OB generated during the year and dump separately.	top soil is utilised for plantation
4b	Location of topsoil, OB & mineral reject dumps	OB Dump is proposed on statutory barrier	Dump on statutory barrier	
4c	Number of dumps within lease area and outside lease area	No proposal	NA	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	NA	
4e	Number of active & alive dumps	No proposal	NA	
4f	Number of dead dumps	No proposal	NA	
4g	Number of dumps established	No proposal	NA	
4h	Whether Retaining wall or garland drain all along dumps are there	No proposal	NA	
4i	Length of Retaining wall or garland drain all along dump	No proposal	NA	
4j	Number of settling ponds	No proposal	NA	
4k	Specific comments of inspecting officer	Top soil is utilised in plantation.		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals of (2022-23)	Actual work (2022-23)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposal	NA	-
5b	Area under backfilling of mined out area	No proposal	NA	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	topsoil utilise for topsoil	Utilized for plantation	-

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5d	Total area fully reclaimed & rehabilitated	2.4 Ha	Nil	-
5e	General remarks of inspecting officer on backfilling, reclamation etc	OB is utilising for backfilling the mineral exhausted pits.		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals of (2022-23)	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.	Yes	Yes Submitted	The detail as provided in PMCP report seems not logical. Violation observed under Rule 45(5C)
6b	Management of worked/mined out benches			Violation observed under rule 11(1), plantation was not carried out as proposed.
	i) Area available for rehabilitation (ha)	0.2815 ha.	0.28 ha.	
	ii) Afforestation done (ha)	0.05 Ha.	0.05 Ha.	
	iii) No. of saplings planted during the year	100 No.	10 No. as observed in the field	
	iv) Cumulative no. of plants	300	200	
	v) Any other specific method of rehabilitation	2.43Ha.	2.4 Ha. (water reservoir)	
6c	vi) Cost incurred on watch & care during the year	Rs 5000	Rs. 12000	The data as provided in PMCP report along with Annual Return seems not logical. Violation observed under Rule 45(5C).
	Compliance on reclamation and rehabilitation by backfilling	No proposal	NA	
	i) Voids available for backfilling (L X B X D)	No proposal	NA	
	ii) Void filled by waste/tailings	No proposal	NA	
	iii) Afforestation on the backfilled area	0.28 ha.	-	
	iv) Rehabilitation by making water reservoir	2.4 ha	-	
6d	v) Any other specific means	-	-	Plantation are not carried out as proposed
	Compliance of Rehabilitation of waste land within lease			
	i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	0.0500 Ha. 2.43 ha Plantation & water reservoir	0.0500 Ha. 2.4 ha	
6e	Compliance of	Core Zone with in limit	Core Zone with in	-

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	Environmental monitoring (core zone & buffer zone)	– Ambient Air Quality, Surface water Quality, Ground water quality, Noise level, Noise vibration to be monitor and should be in limit.	limit – Ambient Air Quality, Surface water Quality, Ground water quality, Noise level, Noise vibration to be monitor and should be in limit.	
6f	General remarks of inspecting officer on PMCP compliance & progressive	100 No. of sapling plantation are proposed during the year 2022-23 but the plantations are not carried out as proposed. The detail as provided in PMCP report along with annual returns seems not logical. Violation observed under Rule 45(5C).		

7.0 Mineral Conservation

SN	Item	Proposals of (2022-23)	Actual work (2022-22)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	2,55,658 MT	1,99,195.61 MT	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No proposal	NA	-
7c	Different grade of mineral sorted out at mines	No proposal	NA	-
7d	Any beneficiation process at mines	No proposal	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Mineral produced 1,78,770 tonnes during the year whereas 1,99,195.61 tonnes bauxite were dispatched during the year 2022-23. Closing stock was 51,620 tonnes.		

8.0 Environment

SN	Item	Proposals of (2022-23)	Actual work (2022-23)	Remarks
8a	Separate removal and utilization of topsoil	Yes	Yes	-
8b	Concurrent use or storage of topsoil	Topsoil utilize for plantation	Utilized for plantation	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37(1))	Less quantity of OB, dump at statutory barrier	Overburden dump at statutory barrier	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	NA	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes, as per PMCP water reservoir and plantation	water reservoir and plantation	-
8f	Baseline information on existence of plantation & additional plantation done	Proposed 100 No. saplings plantation Survival rate 80%.	Less plantation as observed	-

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	(Rule 41)			
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 area.	100 No. of sapling plantation are proposed during the year 2022-23 but the plantations are not carried out as proposed.		

9.0 Compliance of Rule 45

S.No	Item	COMMENTS	Remarks
9a	Status of submission of Online Monthly and Annual returns	M.R. Submitted up to – Nov. 2023 A.R. submitted up to 2022-23	The data as provided in PMCP report along with Annual Return seems not logical. Violation observed under Rule 45(5C).
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: 01 Geologist: 01	At the time of inspection, it is found that no geologist is appointed in the mine. (Violation observed under Rule 55(1).
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Under Forest 0.000 hectares Outside Forest 65.3971 hectares	-
9d	Scrutiny of Annual return on afforestation	Total no. of trees at the end of the year: 3580 Nos.	Violation was observed under Rule 11(1) for plantation
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing Stock (as on 31.03.2023): 51620.6 tonnes (cement grade limestone)	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex mine price: Rs. 863/- Production cost: Rs 444.3/-	-
9i	Scrutiny of Annual return on fixed assets	Capital: Rs 3,00,000/-	-
9k	Scrutiny of Annual return on mining machineries	Back Hoe 0.900 Cum (2 No); Dumper 17.000 Tonne (3 No) Wheel Loader 1.5 Cum (1 No); Water Tanker 10 Litre (1 No)	

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

Following violations were observed during the inspection:

नियम सं.	उल्लंघनों के प्रकारों का विस्तृत ब्यौरा
11(1)	The following violation is observed as per implementation of proposals of the mining plan approved vide this letter No. 684(4)(1)/MP-318/2020-21/MDRD(N) dated 02.03.2021 :- According to point number 8.3 (Table No.58) of the approved mining plan, it was proposed to plant 100 trees for environmental improvement in the year 2022-23, but at the time of inspection it was found that the prescribed tree plantation has not been done.
12(4B)	For the exploration done under sub-rule (3) and (4), the holder of mining lease shall submit to the State Government and the Indian Bureau of Mines, a Geological Study Report prepared in the manner specified in the Minerals (Evidence of Mineral Contents) Rules, 2015, within three months after the completion of the exploration work. In your case, Form-I was submitted by the lease holder on 15.11.2022. It is communicated by the lease holder that 17 boreholes have been drilled but the Geological Study Report(GSR) has not

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	been submitted to this office even lapsing of about more than one year after completion of boreholes.
45(5C) read with 45(7A)	In submitted Annual Return 2022-23, the following deficiencies/ inconsistencies are found: The data in respect of tree plantation, backfilling, reclamation, and rehabilitation as provided in PMCP report along with Annual Return seems not logical.
55(1)	In case of Category 'A' mines, every holder of mining lease shall employ a whole time mining engineer and a geologist but at the time of inspection, it has been observe that the Geologist has not been appointed for Palakhada Bauxite Mine as per rules.

**Signed by Sunil Kumar
Sharma**

Date: 26-03-2024 09:44:53

Reason: Approved

Sunil Kumar Sharma
(Senior Assistant Controller of mines)
Indian Bureau of Mine, Gandhinagar