

MCDR INSPECTION REPORT**1.0 GENERAL**

SN	Particulars	Details
1 (a)	Name of the Mine	Mahadevia Bauxite Mine
1 (b)	Name of Inspecting officer & Designation	Sunil Kumar Sharma Sir (Senior Assistant Controller of Mines, IBM)
1 (c)	Accompanying Mines Representatives	H.P. Thanki Legal heir M/s CALBAUX AND ALLIED INDUSTRIES
1 (d)	Type of Inspection	Review of Mining Plan
1 (e)	Date of Inspection	04.11.2023
2	Total Lease Area (Ha) with breakup of non-forest and forest land	32.3748 Hectare
3	Minecode	07GUJ07023
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/1100/2011
5	Name of the lessee, Address, phone, email and fax number	Shri Harjivan Purshotamdas Thanki East Kadia Plot, Porbandar – 360577 Mo No. 9824290919 mail@rawmin.com
6	Village	Mahadevia
7	Taluka/Mandal	Kalyanpur
8	District	Devbhumi Dwarka
9	Pincode	360577
10	State	Gujarat
11	Post office	Mahadevia
12	Nearest police station	Kalyanpur
13	Nearest Railway station	Kalyanpur
14	Date of Grant of Mining Lease	15.01.1982
15	Date of Execution	17.10.1983
16	Date of opening of Mine	06.04.2021
17	Date of first Renewal, if applicable and its period & expiry	31.01.2002-Deemed renewed
18	Date of second Renewal, if applicable and its period & expiry	N/A
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	31.01.2002 extended till 16.10.2033
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Harjivan Purshotamdas Thanki East Kadia Plot, Porbandar – 360577 Mo No. 9824290919 mail@rawmin.com
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Bhavin H. Thanki East Kadia Plot, Porbandar – 360577 Mo No. 9824290919 mail@rawmin.com
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shaileshkumar Vitthalbhai Dave Nand Vihar Apartment, Opp Air Port, Porbandar 7567736799 dsvminingengineer@gmail.com
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in	Shaileshkumar Vitthalbhai Dave Nand Vihar Apartment, Opp. Air Port, Porbandar 7567736799 dsvminingengineer@gmail.com

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	mine	
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-327(246)/2020-21 Dated 19.03.2021
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-327(246)/2020-21 Dated 19.03.2021 period from 2021-22 to 2023-24
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	Captive

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

Exploration

SN	Item	Proposals (2022-23)	Actual work	Remarks
1a	Backlog of previous year	15 trail pits	11 trial pits	The mine was closed hence exploration could not be done as proposal of 15 trial pits. It is proposed in review of mining plan to makeup the gap.
1b	Exploration over lease area for Geological axis 1 or 2.	G1: 5.56 Ha. G2: 4.60 Ha G3: 6.96 Ha	G1: 12.28 Ha. G2: 2.373 Ha.	It is proposed in Review of Mining Plan to convert G2 axis to G1 axis up to 2025-26.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	CALBAUX AND ALLIED INDUSTRIES	CALBAUX AND ALLIED INDUSTRIES	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	-
1e	Balance reserves as on 01.04.2023 (Unit in tonnes)	Reserves	Remaining Resources	Average Grade Al ₂ O ₃ :35.56% SiO ₂ :11.44%
		111: 1400445.0	211: 91350	
		122: 266872.5	222: 28710	
		Reserves: 1667317.5	R.R. : 120060	
		Total Resources: 1787377.5 tonnes		
1f	General remarks of inspecting officer on geology, exploration etc.	Area explored in G1 category is 12.28 hectare and area explored in G2 category is 2.3 hectare whereas unexplored area is 17.7218 hectare. Whole lease area to be explored in G1 category up to 2025-26 as proposed in Review of mining plan vide No. MCDR-MPCP0CaFl/62/ 2023 –GNR IBM_RO_GNR dated 16.04.2024		

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2.0 Development

SN	Item	Proposals (2022-23)	Actual work	Remarks
2a	Location of development w.r.t. lease area	N 65 to S225 E 85 to S235	N 65 to S225 E 85 to S235	-
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No proposal of Overburden	NA	-
2c	Stripping ratio or ore to OB ratio	1:0	1:0	-
2d	Quantity of topsoil generation in m ³	2300 m ³	350 m ³	Due to less excavation
2e	Quantity of overburden generation in m ³	No proposal	NA	-
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Less development work was carried out as proposed due to delay in obtaining Environment Clearance.		

3.0 Exploitation

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
3a	Number of pits proposed for production	One	One	-
3b	Quantity of ROM mineral production proposed	205238 tonnes	74225.480 Tonnes	-
3c	Recovery of salable/usable mineral from ROM production	100%	100%	Cement, Abrasive and Refractory grade
3d	Quantity of mineral reject generation	No proposal	NA	No mineral rejects generated
3e	Grade of mineral reject generation and threshold value declared	No proposal	NA	-
3f	Quantity of sub-grade mineral generation	No proposal	NA	-
3g	Grade of sub-grade mineral generation	No proposal	NA	-
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	NA	-
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	NA	-
3j	Provision of drilling & blasting in mineral benches	No proposal	NA	-
3k	Provision of mining machineries in mineral benches	Rock Breaker, Excavator, Loader and Tippers	Rock Breaker, Excavator, Loader and Tippers	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height: 3.50 m	In pit 1, at west side configuration layout of benches is not in systematic manner	Violation observed under rule 11(1).
3m	Total area covered under excavation/pits	2.35 Ha	1.15 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	6.2 Ha.	2.5 Ha.	-

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3p	Production of ROM mineral during five-year period from 2018-19 to 2022-23	6,22,633 Tonne	1,49,725.480 Tonne	-
3q	General remarks of inspecting officer on method of mining etc.	Less production of mineral was carried out as proposed due to delay in obtaining Environment Clearance.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject	Top soil proposed 2300 m ³	500 m ³ generated	Top soil utilized in plantation.
4b	Location of topsoil, OB & mineral reject dumps	No proposal	NA	-
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	No overburden is generated during mining. Top soil is generated which is utilised in plantation.		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (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)	Top soil proposed 2300 m ³	500 m ³ generated	Utilized for plantation in Statutory Barrier
5d	Total area fully reclaimed & rehabilitated	No proposal	NA	-
5e	General remarks of inspecting officer on backfilling, reclamation etc	Back filling is not carried out in mines as overburden is not generated. Top soil is utilized for plantation in Statutory Barrier		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2022-23)	Actual work (2022-23)	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	Submitted	-

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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	Nil 0.0250 Ha. 50 No. 115 No. Nil Rs. 5000	Nil 0.0250 Ha. 50 No. 50 No. Nil Rs. 5000	-
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	Plantation in periphery of the lease area	Plantation was carried out in barrier zone of the lease area.	-
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	No waste Land in the lease area	NA	-
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.	Core Zone with in limit – Ambient Air Quality, Surface water Quality, Ground water quality, Noise level, Noise vibration are measured with in limit.	-
6f	General remarks of inspecting officer on PMCP compliance & progressive	PMCP report is submitted along with Annual Return 2022-23.		

7.0 Mineral Conservation

SN	Item	Proposals (2022-23)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	205238 Tonne	74225.480 Tonne	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanised	Mechanised	-
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	Less dispatch of mineral was carried out as proposed due to delay in obtaining Environment Clearance.		

8.0 Environment

SN	Item	Proposals of (2022-23)	Actual work	Remarks
8a	Separate removal and utilization of topsoil	Top soil proposed 2300 m ³	350 m ³ generated	-
8b	Concurrent use or storage of	Proposal for Top soil	Top soil is utilised	-

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	topsoil	utilisation in plantation at 7.5 m barrier zone.	in plantation at 7.5m barrier zone	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37(1))	No proposal	NA	-
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)	No proposal	NA	-
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	As per PMCP Plantation 50 Nos	Plantation 50 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	Plantation was carried out at 7.5 m barrier zone as proposed in the mining plan.		

9.0 Compliance of Rule 45

S. N	Item	COMMENTS	Remarks
9a	Status of submission of Online Monthly and Annual returns	Annual Return of 2022-23 submitted on 30.05.2023 Monthly Return was submitted within stipulated time.	NIL
S. N	Item	Observation of I/Officer /Actual reported in Returns	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Shailesh Dave Geologist: Hema Kapuriya	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Occupied by plant, buildings, residential, welfare buildings and roads: 0.012 Ha. Plantation: 0.465 Ha.	
9d	Scrutiny of Annual return on afforestation	75 No. plantation at the end of the year.	-
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	No closing stock of ROM	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cement grade: 760 Rs/t Abrasive grade: 2245.75 Rs/t Refractory grade: 224.75 Rs/t	-
9i	Scrutiny of Annual return on fixed assets	No fixed asset	-
9k	Scrutiny of Annual return on mining machineries	Rock Breaker, Excavator, Loader and Tippers	-

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

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Violation under Rule11(1) was observed that the configuration layout of benches is not in systematic manner and not as per the proposed layout given in Plate 6 of the approved Mining Plan document vide letter no. 684(4)(1)/MP-327(246)/2020-21 dated 19/03/2021.. Reply of the violation was received from the lessee and compliance was accepted on 20.03.2024.

(Sunil Kumar Sharma)
Senior Assistant Controller of Mines