

MCDR INSPECTION REPORT**General**

SN	Particulars	Details
1(a)	Name of the Mine	Roha Kotda Bauxite Mines
1(b)	Name of Inspecting Officer & Designation	Shri. Sanjaya Kumar Sahoo (Junior Mining Geologist)
1(c)	Accompanying Mines Representatives	Shri. S.S.Kalotara
1(d)	Type of Inspection	Star rating Inspection
1(e)	Date of Inspection	17-09-2024
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	360.3601 Hect.
3	Mine code	07GUJ10022
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/727/2011
5	Name of the lessee	M/s GMDC Ltd.
6	Village	Kotda (Roha)
7	Taluka/Mandal	Nakhatrana
8	District	Kutch
9	Pincode	380052
10	State	Gujarat
11	Post office	Kotda (Roha)
12	Nearest police station	Mothala
13	Nearest Railway station	Bhuj
14	Date of Grant of Mining Lease	12-01-2006 for 30 years
15	Date of Execution	28-03-2006
16	Date of opening of Mine	28-03-2006
17	Date of first Renewal, if applicable and its period & expiry	NA
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Date of application- 10-01-2020 Expiry-27-03-2056 as per the section 8(A)(5) of MMDR Act,1957.
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Roopwant Singh (IAS) GMDC Ltd. "Khanij bhavan", 132 FT Ring Road, Vastrapur, Ahmedabad. 14-06-2021
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri S.R.Rathore M/s. GUJARAT MINERAL DEVELOPMENT CORPORATION Ltd. BAUXITE PROJECT, GADHSISA TAL- MANDVI- 370 445 KUTCH (Gujarat) Phone No:02834-282289, 282026 / Tele fax: 02834-282310 CIN : L14100GJ1963SGC001206, Website: www.gmdcltd.com, E-mail : gadhsisa@gmdcltd.com

		Date of Appointment. - 06/09/2023
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri S. S. Kalotara Kotda Roha Bauxite Mine Date of appointment:20-06-2022
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri S. S. Kalotara (Diploma Mining 1 st class manager) Bauxite Project-Gadhsisa, Ta-Mandvi, Dis-Kutch, 370445 Date of appointment:20-06-2022
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Shri J. A. Patel (M.SC. GEOLOGY) Appointment:11-07-2022
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	File No.684(4)(1)/MP-344/2021-22 GNR/1414 2021-22 to 2025-26 (23/08/2021)
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	NA
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)	'A'
30	Captive/Non Captive	Non-Captive

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

2.0 Exploration

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
1a	Backlog of previous year	No Proposal	Not Applicable	
1b	Exploration over lease area for Geological axis 1 or 2.	G1	G1	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No Proposal	Not Applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	Not Applicable	
1e	Balance reserves as on 01.04.2024	UNFC code 111- 1,138,749.48 MT		
1f	General remarks of inspecting officer on geology, exploration etc.	Area is already explored to G1. No violation found,		

2.0 Development

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
2a	Location of development w.r.t. lease area	PIT-1,4&5	PIT-1&4	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No Proposal	Not Applicable	
2c	Stripping ratio or ore to OB ratio	1:0	1:0.001	
2d	Quantity of topsoil generation in m3	No Proposal	Not Applicable	
2e	Quantity of overburden generation in m3	No Proposal	100	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Location of Pit-01: N23° 09' 34.4" & E069° 13' 30.8", Size- 356m x 36m x 3m Location of Pit-04: N23° 09' 31.2" & E069° 13' 49.6", Size- 220m x 22m x 3m		

3.0 Exploitation

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
3a	Number of pits proposed for production	PIT No-1,4 & 5	PIT No-1,4	
3b	Quantity of ROM mineral production proposed	1,00,000MT	51312.518MT	
3c	Recovery of saleable / usable mineral from ROM production	1,00,000MT	51312.518MT	
3d	Quantity of mineral reject generation	No Proposal	Not Applicable	
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	When required	Nil	
3k	Provision of mining machineries in mineral benches	Rock Breaker cum Excavator-02- bucket capacity:0.9-1.2m ³ Tipper-3 - capacity 17 tonnes Front end loader-	Dumper-02 - capacity 17 tonnes Back hoe-01 Front end loader-01 - capacity- 1.2 cum	

		01- capacity- 1.2 cum Water Tanker-01	Water tanker-01	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3m-5m in Mineral	3m in Mineral	
3m	Total area covered under excavation/pits	30.36Ha	20.500Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:0	1:001	
3o	Total area put in use under different heads at the end of year	43.16Ha	32.635Ha	
3p	Production of ROM mineral during last five-year period, as applicable in MT	Yr-2019-20-112431	86253.776	
		Yr-2020-21-142000	87466.540	
		Yr-2021-22-100000	33437.692	
		Yr-2022-23-100000	62945.802	
		Yr-2023-24-100000	51312.518	
3q	General remarks of inspecting officer on method of mining etc.	Mining operations were not carried out during inspection as pit was filled up with rain water.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No Proposal	Yes	
4b	Location of topsoil, OB & mineral reject dumps	No Proposal	Old Dump	
4c	Number of dumps within lease area and outside lease area	01	01	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside	Outside	
4e	Number of active & alive dumps	01	01	
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps stabilised	Nil	Nil	
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	There was no proposal for generation of topsoil, over burden, mineral reject etc., But 100m ³ over burden was generated and disposed to the old Dump. Old Dump is present and its location is N23°9'35.46" & E69°13'27.21".
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5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No Proposal	Not Applicable	
5b	Area under backfilling of mined out area	No Proposal	Not Applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No Proposal	Not Applicable	No topsoil
5d	Total area fully reclaimed & rehabilitated	No Proposal	Not Applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc	There was no proposal of reclamation, backfilling & rehabilitation.		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E (2). Details should be given in the format as given in Annexure-20.	Yes	Yes Submitted along with Annual Return on 18-06-2024.	
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	No Proposal	Not Applicable	
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	No Proposal	Not Applicable	

	iv) Rehabilitation by making water reservoir v) Any other specific means			
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i. 200 plants ii. 0.2 Ha iii. Plantation Cost: Rs. 50,000	i. 220 plants ii. 0.2 Ha iii. Plantation Cumulative number of plants- 18900 Cost: Rs.1,69,600	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	4 times	Yes	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Bio fencing of 300 meters done against 240 meters done. Location taken near plantation is N 23° 11' 32.22" & E 69° 13' 50.94".		

7.0 Mineral Conservation

<u>7.6 Mineral Conservation</u>				
SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Yes	Yes	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	
7c	Different grade of mineral sorted out at mines	Proposed	Below 40% Al ₂ O ₃ , 45% to below 50% Al ₂ O ₃ , Cement, Chemical, Refractory, Abrasive grades	
7d	Any beneficiation process at mines	No Proposal	Not Applicable	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	ROM is used to separate which is done manually according to various grades. All are stacked and the respective data are maintained in register properly.		

8.0 Environment

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	Not Applicable	
8b	Concurrent use or storage of topsoil	No Proposal	Not Applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Proposal	100m ³ overburden disposed to Old Dump.	
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)	No Proposal	Not Applicable	
8f	Baseline information on	Additional plants-	Additional plants-	

	existence of plantation & additional plantation done (Rule 41)	200 plants	220 plats Cumulative number of plants-18900	
8g	Survival rate	60%	70%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Water tanker is being used for dust suppression.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	100m ³ over burden was generated and disposed to the old Dump. There was no proposal for topsoil generation.		

9.0 Compliance of Rule 45

SN	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	January-2025 Monthly Return was submitted on 07-02-2025. 2023-24 Annual Return was submitted on 18-06-2024.	

SN	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager/Mining Engg: S.S.Kalotara Geologist: J. A. Patel		No violation found
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit area under excavation-20.500 ha Reclaimed land-0.00 Dumps-1.900ha Mineral storage -4.2350ha Building & roads-6.000ha		
9d	Scrutiny of Annual return on afforestation	Plantation work -0.2ha Plantation-220		
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening Stock- 49127.279 MT Closing Stock- 36454.981MT		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale Value- 158376819.49Rs. Ex. Mine Price-PG-2862.21Rs. NPG- 944.34Rs. Production Cost per tonne-1696.51		
9i	Scrutiny of Annual return on fixed assets	Rs.2915159		
9k	Scrutiny of Annual return on mining machineries	Back hoe-01 Dumper-02 Front end loader-01 Water tanker-01		

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

- a. No violation was pointed out during last year inspection.
- b. No violation is pointed out during current year inspection.
- c. Drone data has been submitted by the Lessee on 06-06-2024 and returned to the

Lessee. It was resubmitted on 25-10-2024 and found as per SOP.

- d. Self-assessment date of Star Rating by the Lessee is 28-06-202. 5 Star was given by the Lessee. It has been validated and given 5 Star.

Shri. Sanjaya Kumar Sahoo

Junior Mining Geologist

Indian Bureau of Mines

Gandhinagar