#### 1/7033/2023

#### MCDR INSPECTION REPORT

#### 1<u>.0 GENERAL</u>

1 <u>.0 G1</u>	ENERAL	i
SN	Particulars	Details
1(a)	Name of the Mine	Roha kotda Bauxite Mines
1(b)	Name of Inspecting Officer & Designation	Sh. Pushpendra Gaur, Regional Controller of Mines, IBM
1(c)	Accompanying Mines Representatives	S.S.Kalotara
1(d)	Type of Inspection	MCDR INSPECTION
1(e)	Date of Inspection	20-12-2022
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	360-36-01 Hect.
3	Minecode	07GUJ10022
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/727/2011
5	Name of the lessee, Address, phone, email and fax number	Kotda Roha Bauxite Mine, Vil-Kotda (Roha) , Ta- Nakhtrana, Dis-Kutch
6	Village	Kotda (Roha)
7	Taluka/Mandal	Nakhtrana
8	District	Kutch
9	Pincode	
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
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	Date of application- 10-01-2020 Renewal of lease up to-27-03-2056
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	NA
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 Sama Ram 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. – 16/03/2022
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 (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 2 <sup>nd</sup> class manager) Bauxite Project-Gadhsisa, Ta-Mandvi, Dis-Kutch, 370445 (20-06-2022)
24	Whether Geologist and Mining Engineer appointed in mines satisfy the	Shri J.A.Patel (M.SC. GEOLOGY)
	rule 55 & carrying out their duties as	Appointment:11-07-2022

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	per rule 56 & 57.	
25	Date of Approval of Mining	2021-22 to 2025-26
	Plan/Modified Mining Plan with five-	(23/08/2021)
	year period and specific condition in	
	approval letter, if any.	
26	Date of Approval of Scheme of Mining/	23/08/2021
	Modified Scheme of Mining with five-	Vide No.684(4)(1)/MP-344/2021-22 GNR/1414
	year period and specific condition in	
	approval letter, if any.	
27	Mineral(s) granted in lease and proved	BAUXITE
	for mining	
28	Method of Mining(Opencast,	Opencast.
	Underground)	
29	Category (Fully Mechanised, Others or	'A"
	Manual)	
30	Captive/Non Captive	Captive

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

Exploration

Expio	ration			
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.	G1	G1	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NA	NIL	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	NA	
1e	Balance reserves as on 01.04.2022	1.186 Million tonne (1.286-0.1000)	1.253 Million tonne (1.286-0.033)	
1f	General remarks of inspecting officer on geology, exploration etc.	Explored upto	G1 Axis.	

### 2.0 Development

SN	Item	Proposals (2021-22)	Actual work (2021-22)	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)	- NA -	- NA -	
2c	Stripping ratio or ore to OB ratio	1:0	NIL	
2d	Quantity of topsoil generation in m3	NIL	NIL	
2e	Quantity of overburden generation in m3	0	0	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Satisfactory.		

# 3.0 Exploitation

SN	Item	Proposals	Actual work	Remarks
		(2021-22)	(2021-22)	
За	Number of pits proposed for	PIT No-1,4 & 5	PIT No-1,4	(To achieve high

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	production			grade bauxite (Al <sub>2</sub> O <sub>3</sub> >52%)
3b	Quantity of ROM mineral production proposed	1,00,000MT	33437.692MT	Due to less market demand of
3с	Recovery of salable / usable mineral from ROM production	1,00,000MT	33437.692MT	NPG bauxite, production has been reduced
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral reject generation and threshold value declared	NIL	NIL	
3f	Quantity of sub-grade mineral generation	NIL	NIL	
3g	Grade of sub-grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
3i	Any analysis or beneficiation study proposed & carried out for subgrade mineral and reject	NA	NA	
3j	Provision of drilling & blasting in mineral benches	NIL	NIL	
3k	Provision of mining machineries in mineral benches	Rock Breaker cum Excavator-02- bucket capacity:0.9m³ Tipper-3 – capacity 17 tonnes Front end loader- 01- capacity- 1.2 cum Water Tanker-01	Dumper-04 - capacity 17 tonnes Back hoe-01 Front end loader- 02 - capacity- 1.2 cum Water tanker-01	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3m to 5m	3m	
3m	Total area covered under excavation/pits	21.784Ha	19.215Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:0	1:0	
30	Total area put in use under different heads at the end of year	29.52 Ha	22.40Ha	
3p	Production of ROM mineral during last five-year period, as applicable	Yr-2017-18- 111462 MT Yr-2018-19- 121876 MT Yr-2019-20- 112431 MT Yr-2020-21- 142000 MT Yr-2021-22-100000MT	77610.272 MT 99821.676 MT 86253.776 MT 87466.540 MT 33437.692MT	DISPATCH 38054.640 46856.530 84945.940 97866.66 102014.22
3q	General remarks of inspecting officer on method of mining etc.	Face status- On the da the face was clean and	te of inspection, excav	vator was working,

#### **4.0 Solid Waste Management-Dumping**

S	N	Item	Proposals	Actual work	Remarks
			(2021-22)	(2021-22)	
46	a	Separate dumping of topsoil, OB	YES	NIL	

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	& mineral reject (Rule 32, 33)			
4b	Location of topsoil, OB &	NA	NA	
	mineral reject dumps			
4c	Number of dumps within lease	NIL	NIL	
	area and outside lease area			
4d	Location of dumps w.r.t.	NIL	NIL	
	ultimate pit limit (Rule 16)			
4e	Number of active & alive dumps	NIL	NIL	
4f	Number of dead dumps	1	1	
4g	Number of dumps stabilised	1	1	
4h	Whether Retaining wall or	NA	NA	
	garland drain all along dumps			
	are there			
4i	Length of Retaining wall or	NA	NA	
	garland drain all along dump			
4j	Number of settling ponds	NA	NA	
4k	Specific comments of inspecting			
	officer	NA		

#### 5.0 Solid Waste Management-Backfilling

SN	Item	Proposals	Actual work	Remarks
		(2021-22)	(2021-22)	
5a	Status on part or full extraction	NIL	NIL	
	of mineral from mined out area			
	before starting backfilling			
5b	Area under backfilling of mined	NIL	NIL	
	out area			
5c	Concurrent use of topsoil for	NIL	NIL	
	restoration or rehabilitation of			
	mined out area (Rule 32)			
5d	Total area fully reclaimed &	NIL	NIL	
	rehabilitated			
5e	General remarks of inspecting	NA	•	•
	officer on backfilling,			
	reclamation etc			

#### 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 23E(2). Details should be given in the format as given in Annexure-20.	YES	YES (GMDC/CBPG/83/21- 22 Dated 16.04.22)	
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha)	NIL	NIL	
	ii) Afforestation done (ha) iii) No. of saplings planted during the year	0.2 200	0.8 1100	
	iv) Cumulative no. of plants v) Any other specific method of rehabilitation	- NIL	18470 NIL	Cost : Related to Plantation

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	vi) Cost incurred on watch & care	50,000 Rs.	2,75,000 Rs.
	during the year		
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	(i) Nil (ii) Nil (iii) NA (iv)NA (v) NA	(i) Nil (ii) Nil (iii) NA (iv)NA (v) NA
	v) Any other specific means		
6d	Compliance of Rehabilitation of waste land within lease		
	i) Afforestation ii) Area rehabilitated (ha)	0.2На	0.8На
	iii) Method of rehabilitation	Manual	Manual
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Yes	Yes
6f	General remarks of inspecting officer on PMCP compliance & progressive	Healthy plantation d water being used fro	ue to proper maintenance near pit- 2 and m nearby pit.

#### 7.0 Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
		(2021-22)	(2021-22)	
7a	ROM Mineral dispatch or	YES	YES	ROM is used
	grade-wise sorting within lease			to separate
	area			which is done
7b	Method of grade-wise mineral	Manual	Manual	manually
	sorting i.e. manual or			according to various grades
	mechanical			like PG.
7c	Different grade of mineral	Bauxite & Sub grade	(i) PG (Al <sub>2</sub> O <sub>3</sub> ≥52%)	>52%
	sorted out at mines		(ii) NPG (Al <sub>2</sub> O <sub>3</sub> 40 to	NPG. 42-52%
			<52%)	Dust. <42%
			(iii) Sub Grade size	All are
			less than 10 mm	stacked and
7d	Any beneficiation process at	NA	NA	the respective
	mines			data are
				maintained in
				register
				properly.
7e	General remarks of inspecting	Only manual sorting – sizir	ng is done for the mineral	conservation.
	officer on Mineral			
	conservation & beneficiation			
	issues			

# 8.0 Environment

SN	Item	Proposals	Actual work	Remarks
		(2021-22)	(2021-22)	
8a	Separate removal and	NA	NA	Total ROM is
	utilization of topsoil (Rule 32)			salable and no
8b	Concurrent use or storage of	NA	NA	topsoil or OB/IB
	topsoil			is present.
8c	Separate dumps for	Yes	Yes	
	overburden, waste rock, rejects			

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		and fines (Rule 33)			
	8d	Use of overburden, waste rock,	NA	NA	
		rejects and fines dumps for			
		restoring the land to its			
		original use	77.4	37.4	
	8e	Phased restoration,	NA	NA	
		reclamation and rehabilitation			
		of lands affected by mining			
	8f	operations (Pits, dumps etc) Baseline information on	200	1100	
		existence of plantation &	200	1100	
		additional plantation done			
		(Rule 41)			
	8g	Survival rate	100%	70%	
	8h	Water sprinkling on roads to	Proposed	As per proposal	Water tank is
		control airborne dust			being used for
					dust
					suppression.
	8i	General remarks of inspecting	The beauty is good around	the mining lease area.	
		officer on aesthetic beauty in			
		and around mines are			

#### 9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of	M.R. Submitted up to –Nov-2022	
	Monthly and Annual returns	A.R. submitted up to- 2021-22	

S.	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
N.				
9b	Scrutiny of Annual return	Manager/Mining Engg:	Found in order.	
	for information on Mining	S.S.Kalotara		
	Engineer, Geologist and	Geologist: J. A. Patel		
	Manager			
9c	Scrutiny of Annual return	Pit area under excavation-	Found in order.	
	on land use pattern for area	19.215ha		
	under pits, reclaimed area,	Reclaimed land-0.00		
	dumps etc.	Dumps-1.9ha		
		Mineral storage -3.00ha		
9d	Scrutiny of Annual return	Plantation work -0.8ha	Found in order.	
	on afforestation	Plantation-1100		
9e	Scrutiny of Annual return	NIL	Found in order.	
	on mineral reject generation			
	(Grade & quantity)			
9f	Scrutiny of Annual return	33437.692MT	Found in order.	
	on ROM stock and/or			
	graded ore			
9g	Scrutiny of Annual return	Sale Value-	Found in order.	
	on sale value, Ex. Mine	23,64,51,314.93Rs.		
	price & production cost	Ex. Mine Price-PG-2588.42		
		Rs.		
		NPG-950.32Rs.		
		Production Cost-1545.87Rs.		

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9i	Scrutiny of Annual return		Found in order.	
	on fixed assets	1566438		
9k	Scrutiny of Annual return	Back hoe-01	Found in order.	
	on mining machineries	Dumper-04		
		Front end loader-02		
		Water tanker-01		

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

No violation observed in previous inspection dt. 28/09/2021.

In this inspection, Rule 33 read with 31(4) found to be violated.

Pushpendra Gaur Regional Controller of Mines Indian Bureau of Mines