

## MCDR INSPECTION REPORT

1.0 GENERAL		Details
SN	Particulars	Daban-Wamoti Bauxite Mine Sh. Pushpendra Gaur, Regional Controller of Mines, IBM
1(a)	Name of the Mine	
1(b)	Name of Inspecting Officer & Designation	J R Thakor
1(c)	Accompanying Mines Representatives	MCDR INSPECTION
1(d)	Type of Inspection	20-12-2022
1(e)	Date of Inspection	642-05-50 Hect.
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	
3	Mine code	07GUJ10023
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/727/2011
5	Name of the lessee, Address, phone, email and fax number	Daban Bauxite Mine, Vil-Daban, Ta- Abadasa, Dis-Kutch
6	Village	Daban
7	Taluka/Mandal	Abdasa
8	District	Kutch
9	Pin code	370670
10	State	Gujarat
11	Post office	Daban
12	Nearest police station	Naliya
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	10-01-2020 (Valid up to 27-03-2056)
18	Date of Third Renewal, if applicable and its period & expiry	-
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NIL
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Roopwant Singh 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. <b>M/s. GUJARAT MINERAL DEVELOPMENT CORPORATION Ltd.</b> 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 N K Viramagama DabanWamoti Bauxite Mine (10-06-2022)
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri N K Viramagama (B.E.Mining engineer & II Class Manager Cert. Under MMR -1961) Bauxite Project-Gadhsisa, Ta-Mandvi, Dis-Kutch, 370445 Appointment- 10-06-2022

24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56&57.	Shri D P Panchal Appointment: 15-11-2022
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	2021-22 to 2025-26
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	23-08-2021 Vide No.-684(4)(1)/MP-343/2021-22 GNR/1419
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)	"A"
30	Captive/Non Captive	Captive

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

Exploration		Proposals (2021-22)	Actual work (2021-22)	Remarks
SN	Item			
1a	Backlog of previous year	N/A	N/A	
1b	Exploration over lease area for Geological axis 1 or 2.	G1	G1	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	N/A	N/A	
1d	Balance area to be explored to bring Geological axis in 1 or 2	N/A	N/A	
1e	Balance reserves as on 01.04.2022...	7.075 Million Ton (7.315-0.240)	7.285 Million Ton (7.315-0.034)	
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 No - Daban-1,2 & 3 Rasaliya - 2	PIT No - Daban- 2 & 3	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	- NA -	- NA -	
2c	Stripping ratio or ore to OB ratio	1:0.01	1:0.09	
2d	Quantity of topsoil generation in m <sup>3</sup>	Nil	Nil	
2e	Quantity of overburden generation in m <sup>3</sup>	Nil	Nil	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	As per plan was observed. As per data provided by Mining Management.		

### 3.0 Exploitation

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
3a	Number of pits proposed for production	PIT No - Daban-1,2 & 3 Rasaliya - 2	PIT No - Daban- 2 & 3	
3b	Quantity of ROM mineral production proposed	240000 MT	34116.818 MT	Only PG production was done due to remaining stock of 5lakhs MT NPG bauxite.
3c	Recovery of salable/usable mineral from ROM production	240000 MT	34116.818 MT	
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	NIL	NIL	
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	NIL	NIL	
3j	Provision of drilling & blasting in mineral benches	NIL	NIL	
3k	Provision of mining machineries in mineral benches	<b>Rock Breaker cum Excavator- 06</b> - bucket capacity: 0.9m <sup>3</sup> <b>Tipper-12</b> - capacity 17 tonnes <b>Water tanker-01</b>	<b>Dumper-02</b> - capacity: 17 tonnes, <b>Back hoe-01</b> <b>Front end loader-01</b> capacity- 1.2 cum <b>Water tanker-01</b>	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3.0	2.0	
3m	Total area covered under excavation/pits	67.874 Ha	54.160Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:0.01	1:0.09	
3o	Total area put in use under different heads at the end of year	67.874 Ha	66.13Ha	
3p	Production of ROM mineral during last five-year period, as applicable			<b>DISPATCH</b>
		Yr-2017-2018 - 2085453 MT	105884.252 MT	0
		Yr-2018-2019 - 260829 MT	0	0
		Yr-2019-2020 - 260240 MT	0	160.920
		Yr-2020-2021 - 258073 MT	18613.172 MT	20440.13
	Yr 2021-2022 -240000 MT	34116.818 MT	32813.450	
3q	General remarks of inspecting officer on method of mining etc.	Production was less due to less market demand and present closing stock is around 5 lakh MT of NPG grade bauxite. Currently PG production is ongoing in proposed planning area.		

### 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)	YES	NIL	
4b	Location of topsoil, OB & mineral reject dumps	East direction of Pit-2	East direction of Pit-2	

4c	Number of dumps within lease area and outside lease area	2	2	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	East direction of Pit-2	East direction of Pit-2	
4e	Number of active & alive dumps	2	2	
4f	Number of dead dumps	4	4	
4g	Number of dumps stabilised	NIL	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there	NIL	NIL	
4i	Length of Retaining wall or garland drain all along dump	NA	NA	
4j	Number of settling ponds	NA	NA	
4k	Specific comments of inspecting officer	NA	NA	

### 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	Nil	Nil	
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)	Nil	Nil	
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	NA		

### 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) 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 NIL 200 - NIL 50000	NIL NIL 1100 16100 NIL 275000	
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	(i) Nil (ii) Nil (iii) NA (iv) NA (v) NA	(i) Nil (ii) Nil (iii) NA (iv) NA (v) NA	

6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	0.2 Ha 200 Plantation Work	0.8 Ha 1100 Plantation Work	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Yes	Yes	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Plantation is done abundantly in proposed plantation area. Healthy plantation is seen due to proper care and maintenance. Specific plant species known to consume less water has been planted with proper drip irrigation method for preservation of water.		

### 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	Yes	Yes	ROM is used to separate which is done manually according to various grades like PG. >52% NPG. 42-52% Dust. <42% All are stacked and the respective data are maintained in register properly
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	
7c	Different grade of mineral sorted out at mines	Bauxite & Sub grade	(i) PG ( $Al_2O_3 \geq 52\%$ ) (ii) NPG ( $Al_2O_3$ 40 to <52%) (iii) Subgrade size less than 10 mm	
7d	Any beneficiation process at mines	NA	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Satisfactory		

### 8.0 Environment

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	As per availability	Total ROM is saleable and no topsoil or OB/IB is present.
8b	Concurrent use or storage of topsoil	NIL	Directly used for the Afforestation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	YES	YES	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	Nil	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	200	1100	
8g	Survival rate	100 %	70%	
8h	Water sprinkling on roads to control airborne dust	Proposed	As per proposal	Water tank is being used for dust suppression.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Area is widespread with shallow depth mine. Appears satisfactory.		

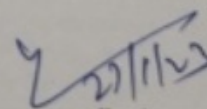
9.0 Compliance of Rule 45

S.N	Item	COMMENTS	Remarks	
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to -Nov -2022 A.R. submitted up to- 2021-22		
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	Manager: Shri N K Viramagama Mining Engg.: Shri N K Viramagama Geologist: D P Panchal	Found satisfactory	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit area under excavation- 54.160ha Reclaimed land-0.00 Dumps-2.970 ha Mineral storage -4.80ha	Found satisfactory	
9d	Scrutiny of Annual return on afforestation	Plantation work -0.8ha Total plants-1100	Found satisfactory	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	NA	Found satisfactory	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	34116.818 MT	Found satisfactory	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale Value- 8,15,92,968.29 Rs. Ex. Mine Price-2487.03 Rs. Production Cost-1463.90Rs.	Found satisfactory	
9i	Scrutiny of Annual return on fixed assets	2349385	Found satisfactory	
9k	Scrutiny of Annual return on mining machineries	Dumper-02 Back hoe-01 Front end loader-01 Water tanker-01	Found satisfactory	

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

None in previous inspection dt. 5/10/2021.

In this inspection, No significant violation observed.

  
Pushendra Gaur  
Regional Controller of Mines  
Indian Bureau of Mines