

I/39214/2024

MCDR INSPECTION REPORT**1.0 GENERAL**

S.No	Particulars	Details
1	Name of the Mine	Naredi-1 Bauxite Mine
1(a)	Name of Inspecting Officer & Designation	Sunil Kumar Sharma, Senior Assistant Controller of Mines
1(b)	Accompanying Mines Representatives	A.V. Jadeja
1(c)	Type of Inspection	MCDR Inspection/ Star Rating Inspection
1(d)	Date of Inspection	13/08/2024
1(e)	Total Lease Area (Ha) with breakup of Non-forest and forest land	62.36 Hectares
2	Mine Code	07GUJ10015
3	IBM Registration Number under rule 45 of MCDR, 1988	IBM/727/2011
4	Name of the lessee, Address, phone, email and fax number	M/S GUJARAT MINERAL DEVELOPMENT CORPORATION LIMITED
5	Village	Naredi
6	Taluka/Mandal	Abadasa
7	District	Kutchchh
8	Pincode	370670
9	State	Gujarat
10	Post office	Naredi
11	Nearest police station	Mothala
12	Nearest Railway station	Bhuj
13	Date of Grant of Mining Lease	31-01-1977
14	Date of Execution	30-07-1977
15	Date of opening of Mine	30-07-1977
16	Date of first Renewal, if applicable and its period & expiry	13/12/2021; upto 31.03.2030
17	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NIL
18	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Roopwant Singh GMDC Ltd. "Khanijbhavan", 132 FT Ring Road, Vastrapur, Ahmedabad. 14-06-2021
19	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
20	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri A.V. Jadeja Naredi-1 Bauxite mines, Date of Appointment. – 02.03.2023
21	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri A.V. Jadeja (B.E. (Mining) & 2 nd Class Manager Under MMR-1961) Naredi-1 Bauxite mines, Date of Appointment. – 02.03.2023
22	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56 &	Shri D. S. Pathak Date of Appointment: 25.10.2023
23		

1/39214/2024

	57.	
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	2022-23 to 2026-27 22-02-2022
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	22-02-2022 Vide No.-684(4)(1)/MP-381(115)/2021-22
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	Non-Captive

Exploration

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	No Proposal	NA	
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.	UNFC Code	Reserves & Resource	All area explored under G1 category
		111	663,415 tonnes	
		211	775,210 tonnes	
		Total	1,438,495 tonnes	
1f	General remarks of inspecting officer on geology, exploration etc.	All lease area explored under G1 category.		

2.0 Development

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
2a	Location of development w.r.t. lease area	South of lease at Pit No. 1	South of lease at Pit No. 1	
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	No overburden proposed	No overburden exist	
2c	Stripping ratio or ore to OB ratio	1:0	1:0	
2d	Quantity of topsoil generation in m3	4352 m ³	Nil	
2e	Quantity of overburden generation in m3	Nil	Nil	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Development in the Ore body bench so no top soil generation.		

3.0 Exploitation

S. N.	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
3a	Number of pits proposed for production	01 pit (Pit No. 1)	01 pit (Pit No. 1)	
3b	Quantity of ROM mineral production proposed	100,000 tonne	130 tonne	Low production due to less
3c	Recovery of saleable/usable mineral from ROM production	100,000 tonne	130 tonne	

I/39214/2024

				market demand
3d	Quantity of mineral reject generation	No proposal	NIL	
3e	Grade of mineral reject generation and threshold value declared	No proposal	NIL	
3f	Quantity of sub-grade mineral generation	No proposal	NIL	
3g	Grade of sub-grade mineral generation	No proposal	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	No proposal	NIL	
3j	Provision of drilling & blasting in mineral benches	Proposed	As and when required	
3k	Provision of mining machineries in mineral benches	Drilling Machine- 01 Shovel- 01 Dumper- 03 Loader- 01 Water Tanker- 01	Dumper- 01 Front end loader-01 Water tanker-01 Backhoe- 01	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	4 m	3 m	
3m	Total area covered under excavation/pits	3.603 Ha	2.188 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	Under mining – 3.603 Ha Top soil stacking – 0.175 Ha Mineral Storage – 0.069 Ha Infrastructure – 1.396 Ha Roads – 0.6594 Ha Railways – 0.7248 Ha Total Area Put to use – 6.627 Ha	Under Mining – 2.188 Ha Infrastructure & Roads – 2.78 Ha Mineral Storage – 0.151 Ha Total Area put to use – 5.119 Ha	
3p	Production of ROM mineral during last five-year period, as applicable	2020-21 : 100000 tonne 2021-22 : 100000 tonne 2022-23 : 100000 tonne 2023-24 : 100000 tonne	2020-21 : 3055 tonne 2021-22 : 10692 tonne 2022-23 : 346 tonne 2023-24 : 130 tonne	
3q	General remarks of inspecting officer on method of mining etc.	Low production was carried out due to less market demand		

4.0 Solid Waste Management-Dumping

S N	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	Topsoil is dumped in barrier zone for plantation	No topsoil generated	
4b	Location of topsoil, OB & mineral	In barrier zone	No topsoil &	

I/39214/2024

	reject dumps		Overburden generated	
4c	Number of dumps within lease area and outside lease area	NIL	NIL	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NIL	NIL	
4e	Number of active & alive dumps	NIL	NIL	
4f	Number of dead dumps	NIL	NIL	
4g	Number of dumps stabilised	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 on waste dump management	During the year 2023-24, the production is less and no topsoil and no overburden generated.		

5.0 Solid Waste Management-Backfilling

S N	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	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 36)	No proposal	NA	
5d	Total area fully reclaimed & rehabilitated	No proposal	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No proposal of backfilling in the mined out pit.		

6.0 Progressive Mine Closure Plan

S N	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2)	Yes	Submitted with Annual Return 2023-24	
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	(i) Nil (ii) 0.5 Hect (iii) 300 (iv) - (v) Nil (vi)30000	(i) Nil (ii) 0.5 Hect (iii) 350 (iv) 4850 (v) Nil (vi)75550	
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) No proposal (iv) No Proposal (v) No Proposal	(i) Nil (ii) Nil (iii) NA (iv) NA (v) NA	

1/39214/2024

	v) Any other specific means			
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	0.5 Ha 0.5 Ha Plantation work	0.5 Ha 0.5 Ha Plantation carried out	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Yes	Yes	
6f	General remarks of inspecting officer on PMCP compliance & progressive	During the year 2023-24, 350 saplings were planted at 0.5 Ha area of non-mineralised zone.		

7.0 Mineral Conservation

S N	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM Produced and Grade-wise sorting of mineral	ROM Produced and Grade-wise sorting of mineral	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	
7c	Different grade of mineral sorted out at mines	Cement Abrasive Refractory Chemical	Cement Abrasive Refractory Chemical	
7d	Any beneficiation process at mines	NA	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	ROM mineral produced and as per sale of particular grade of bauxite of the end-user, the grade-wise production of bauxite is reported in accordingly.		

8.0 Environment

S N	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	4352 m ³	Nil	No topsoil generated
8b	Concurrent use or storage of topsoil	For plantation	Top soil not generated	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	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 44)	300	350	
8g	Survival rate	75%	60%	
8h	Water sprinkling on roads to control airborne dust	Proposed	As per proposal	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Need to be more focused on additional Plantation and improve the survival rate of plantation.		

9.0 Compliance of Rule 45

S. N	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. of July 2024 submitted on 06.08.2024 A.R. 2023-24 submitted on 19.06.2024	

S.	Item	COMMENTS	Remarks
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I/39214/2024

N			
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engg.: Sh. A.V.Jadeja Geologist: Sh. D. S. Pathak Mine Manger: Sh. A.V.Jadeja	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit area under excavation- 2.188ha Infrastructure- 2.78 ha Reclaimed land- nil Dumps- nil Mineral storage- 0.151ha	
9d	Scrutiny of Annual return on afforestation	Plantation work -0.5ha Total plants-350 No.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock 2826.33 tonnes	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale Value- Rs 1185717 Ex. Mine Price (chemical grade) - Rs 927.90 Production Cost - Rs 1884.63 per tonne	
9i	Scrutiny of Annual return on fixed assets	Industrial Building: Rs 21,728	
9k	Scrutiny of Annual return on mining machineries	Dumper-1 Front end loader-1 Water tanker-1 Backhoe- 1	

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

No violation is observed.

Date: 06/09/2024

Sunil Kumar Sharma
Senior Assistant Controller of Mines
Indian Bureau of Mines
