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MCDR INSPECTION REPORT**1.0 GENERAL**

S.No	Particulars	Details
1	Name of the Mine	Naredi II Bauxite Mine.
1(a)		
1(b)	Name of Inspecting Officer & Designation	Sunil Kumar Sharma, Senior Assistant Controller of Mines
1(c)	Accompanying Mines Representatives	D. V. Patel
1(d)	Type of Inspection	MCDR Inspection/ Star Rating Inspection
1(e)	Date of Inspection	13/08/2023
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	66.97 Hectares
3	Mine Code	07GUJ10002
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/727/2011
5	Name of the lessee, Address, phone, email and fax number	M/S Gujarat Mineral Development Corporation Limited
6	Village	Naredi
7	Taluka/Mandal	Abdasa
8	District	Kutch
9	Pincode	370030
10	State	Gujarat
11	Post office	Naredi
12	Nearest police station	Mothala
13	Nearest Railway station	Bhuj
14	Date of Grant of Mining Lease	20/04/1979
15	Date of Execution	25/06/1979
16	Date of opening of Mine	25/06/1979
17	Date of first Renewal, if applicable and its period & expiry	24/02/2006 for 20 years Period-1999 to 2019
18	Date of second Renewal, if applicable and its period & expiry	13/01/2020 for 10 years Renewal of lease up to: 31.03.2030
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. "Khanijbhavan", 132 FT Ring Road, Vastrapur, Ahmedabad. Date of Appointment: 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 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 D. V. Patel Naredi II Bauxite mines, Date of Appointment. – 23.05.2023
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri D. V. Patel (B.E. (Mining) & 2 nd Class Manager Under MMR-1961) Naredi II Bauxite mines, Date of Appointment. – 23.05.2023
24	Whether Geologist and Mining Engineer	Shri R. A . Pawar

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	appointed in mines satisfy the rule 55& carrying out their duties as per rule 56 & 57.	Date of Appointment. -22.09.2023
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	2020-21 To 2023-24 26/10/2020
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	26/10/2020 VIDE LETTER NO- 684(4)(1)/MP-281(116)/2020-21-GNR/1075
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 01.04.2024 as per Annual Return reported.	UNFC Code	Reserves/ Resources	Violation observed under Rule 45. Under reporting of reserves/ resources
		111	1300050	
		221	245501	
		Total	1545551	
1f	General remarks of inspecting officer on geology, exploration etc.	Violation observed under Rule 45 (5) (c), the reserves and resources of bauxite is under reporting as per approved mining plan and reported production.		

2.0 Development

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
2a	Location of development w.r.t. lease area	Virgin area near pit no. 5 & 2	Virgin area near pit no. 5 & 2	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	- NA -	- NA -	
2c	Stripping ratio or ore to OB ratio	1:0	1:0	
2d	Quantity of topsoil generation in m3	No proposal	Nil	
2e	Quantity of overburden generation in m3	No proposal	Nil	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	There is no proposal of overburden and topsoil. No overburden and topsoil generated.		

3.0 Exploitation

S N	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
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3a	Number of pits proposed for production	2 Pits (Pit No.2 & Pit No.5)	2 Pits (Pit No. 2 and Pit No. 5)	
3b	Quantity of ROM mineral production proposed	125000 tonne	4384 tonne	
3c	Recovery of saleable/usable mineral from ROM production	125000 tonne	4384 tonne	
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	Rock Breaker -01 Excavator-02 Dumper-03 Loader-01 Jack hammer-02 Water Tanker-01	Rock breaker-01 Back hoe-01, Dumper-02, Water tanker- 01, Front end loader-01	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3 m	3 m	
3m	Total area covered under excavation/pits	28.22	24.52	
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	35.30	29.28	
3p	Production of ROM mineral during last five-year period, as applicable	2020-21 : 125000 2021-22: 125000 2022-23: 125000 2023-24: 125000	2020-21: 4631.064 2021-22: 10829.82 2022-23: 769.984 2023-24: 4383.839	
3q	General remarks of inspecting officer on method of mining etc.	Less production was carried out due lack of market demand of bauxite.		

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)	No proposal	Nil	
4b	Location of topsoil, OB & mineral reject dumps	No proposal	Nil	
4c	Number of dumps within lease area and outside lease area	No proposal	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	Nil	
4e	Number of active & alive dumps	No proposal	Nil	
4f	Number of dead dumps	No proposal	Nil	
4g	Number of dumps stabilised	No proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	No proposal	Nil	
4i	Length of Retaining wall or garland	No proposal	Nil	

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	drain all along dump			
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer	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) 0.1 Hect (iii) 100 (iv) - (v) Nil (vi)24630	(i) Nil (ii) 0.1 Hect (iii) 150 (iv) - (v) Nil (vi)90150	
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) No proposal (iv) No Proposal (v) No Proposal	(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	0.1 ha 100 Plantation Work	0.1 Ha 150 Plantation Work	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Yes	Yes	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Need to be more focused to improve the survival rate of plantation.		

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7.0 Mineral Conservation

S N	Item	Proposals (2023-24)	Actual work (2023-24)	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)	No proposal	Nil	Total ROM is salable and no topsoil or OB/IB is present.
8b	Concurrent use or storage of topsoil	No proposal	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	No proposal	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	
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)	100	150	
8g	Survival rate	100%	50%	
8h	Water sprinkling on roads to control airborne dust	Water tanker proposed	Water sprinkling by water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	All aesthetic beauty of office premises has been maintained with plantation in a very innovative way which has mixture of local plants such as Kashid and Desi Bawal as well as fruit bearing plants such as Mango, Jamun, Guava etc.		

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 07.08.2024 A.R. 2023-24 submitted on 18.06.2024	

S. N	Item	Comments	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engg.: D.V.Patel Geologist: R. A. Pawar Mine Manger: D.V.Patel	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit area under excavation-24.52ha Infrastructure-1.754 ha Reclaimed land-0.486 ha	

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		Dumps-1.643 ha Mineral storage- 1.367 ha	
9d	Scrutiny of Annual return on afforestation	Total plants during the year – 150 Cumulative - 1200	
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: 20883.491 tonne	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale Value- Rs1479497.45 <u>Ex. Mine Price-</u> Chemical Grade: Rs 932.52 per tonne Refractory: Rs 1459.3 per tonne Abrasive: Rs 1496.65 per tonne Production Cost- Rs.1522.48 per tonne	
9i	Scrutiny of Annual return on fixed assets	Industrial building: Rs 446587	
9k	Scrutiny of Annual return on mining machineries	Back hoe-01, Dumper-02, Water tanker- 01, Front end loader-01	

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

Violation observed under Rule 45 (5) (c) that at point No.2 of Part V, the reserves and resources of bauxite is not matching with approved mining plan.

Date: 06-09-2024

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