

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1(a)	Name of the Mine	NAREDI -1Bauxite Mine
1(b)	Name of Inspecting Officer & Designation	Sh. Pushpendra Gaur, Regional Controller of Mines, IBM
1(c)	Accompanying Mines Representatives	J B Pandya
1(d)	Type of Inspection	MCDR INSPECTION
1(e)	Date of Inspection	19-12-2022
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	62.36Hect.
3	Mine code	07GUJ10015
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/727/2011
5	Name of the lessee, Address, phone, email and fax number	Naredi-1 Bauxite Mine, Vil-Naredi-1, Ta- Abadasa, Dis-Kutch
6	Village	Naredi
7	Taluka/Mandal	Abdasa
8	District	Kutch
9	Pin code	370670
10	State	Gujarat
11	Post office	Naredi
12	Nearest police station	Mothala
13	Nearest Railway station	Bhuj
14	Date of Grant of Mining Lease	31-01-1977
15	Date of Execution	30-07-1977
16	Date of opening of Mine	30-07-1977
17	Date of first Renewal, if applicable and its period & expiry	Date of application: 30-01-1997
18	Date of Second Renewal, if applicable and its period & expiry	Renewal of lease up to: 30-03-2030
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. "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 J B PANDYA Naredi - 1 Bauxite Mine (10-02-2021)
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri A G PATEL Diploma Mining & BE (AMIE) Bauxite Project-Gadhsisa, Ta-Mandvi, Dis-Kutch, 370445 Appointment- 15-07-2022
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Shri P S Shaktawat Appointment: 15-11-2022

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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 GNR
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

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
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...	1.115 Million Ton	0.663 Million Ton	As per New Mining Approved Plan reserve is modified
1f	General remarks of inspecting officer on geology, exploration etc.	Explored upto G1 Axis.		

2.0 Development

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	PIT No – 1 & 2	PIT No – 1 & 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 m ³	Nil	Nil	
2e	Quantity of overburden generation in m ³	Nil	Nil	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	NA		

3.0 Exploitation

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	PIT No – 1 & 2	PIT No – 1 & 2	
3b	Quantity of ROM mineral production proposed	50000 MT	10692.372 MT	Quality issue regarding Ca & Si and only one buyer is available for NPG (<45% Al ₂ O ₃) grade.
3c	Recovery of salable/usable mineral from ROM production	50000 MT	10692.372 MT	
3d	Quantity of mineral reject generation	NIL	NIL	

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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	Proposed	NIL	
3k	Provision of mining machineries in mineral benches	Rock Breaker cum Excavator-02- bucket capacity: 0.9m ³ Dumper-03 – capacity 17 tonnes Water Tanker-01	Dumper-01 capacity 17 tonnes Back hoe-01 Front end loader-01 Water tanker-01	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	2.0 m	1.5 m	
3m	Total area covered under excavation/pits	5.5356 ha	2.148 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	5.8829 ha	4.928 ha	
3p	Production of ROM mineral during last five-year period, as applicable			DISPATCH
		Yr-2020-2021 – 50000 MT	3055 MT	1366.8
		Yr 2021-2022 –50000 MT	10692.372 MT	1339.75
3q	General remarks of inspecting officer on method of mining etc.	Production was less due to less market demand and quality issue.		

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	NA	NA	
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	NA	NA	
4h	Whether Retaining wall or garland drain all along dumps are there	NA	NA	
4i	Length of Retaining wall or garland drain all along dump	NA	NA	

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4j	Number of settling ponds	NA	NA	
4k	Specific comments of inspecting officer	NA		

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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	Nil		

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 600 - NIL 30000	NIL NIL 660 12490 NIL 165000	
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 600 Plantation Work	0.6 Ha 660 Plantation Work	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Yes	Yes	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Plantation has been done sustainably in non-mineralized zone.		

7.0 Mineral Conservation

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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) Sub-Grade size less than 10 mm	
7d	Any beneficiation process at mines	NA	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Found Satisfactory		

8.0 Environment

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Nil	Total ROM is saleable and no topsoil or OB/IB is present.
8b	Concurrent use or storage of topsoil	NA	NA	
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	NA	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	600	660	
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	Found 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	

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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 J B Pandya Mining Engg.: A G Patel Geologist: P S Saktawat	Found in Order.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit area under excavation-2.148ha Infrastructure-2.780 ha Reclaimed land-0.00 Dumps-0.00 ha Mineral storage -0.00ha	Found in Order.	
9d	Scrutiny of Annual return on afforestation	Plantation work -0.6ha Total plants 300	Found in Order.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	NA	Found in Order.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	10692.372MT	Found in Order.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale Value- 30,68,000.91 Rs. Ex. Mine Price-PG: 2704.47 Rs. NPG: 1797.99Rs Production Cost-1280.36Rs.	Found in Order.	
9i	Scrutiny of Annual return on fixed assets	NA	Found in Order.	
9k	Scrutiny of Annual return on mining machineries	Dumper-01 Back hoe-01 Front end loader-01 Water tanker-01	Found in Order.	

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

Previous inspection dt. 03-12-2021, Rule 11(1) and 31(4) found to be violated.

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

Pushpendra Gaur
Regional Controller of Mines
Indian Bureau of Mines