

MCDR INSPECTION REPORT

1.0 **GENERAL**

S.No	Particulars	Details
1(a)	Name of the Mine	नरेडी-2 बॉक्साइट खान
1(b)	Name of Inspecting Officer & Designation	मनीष गुप्ता, सहायक खान नियंत्रक
1(c)	Accompanying Mines Representatives	श्री डी.वी.पटेल, खनन अभियंता
1(d)	Type of Inspection	स्टार रेटिंग
1(e)	Date of Inspection	09.06.2023
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	66.9753 हे.
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	GMDC Ltd
6	Village	नरेडी
7	Taluka/Mandal	अब्दासा
8	District	कच्छ
9	Pincode	370 030
10	State	गुजरात
11	Post office	नरेडी
12	Nearest police station	मोथाला
13	Nearest Railway station	भुज
14	Date of Grant of Mining Lease	20.06.1979
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	25.07.2006
18	Date of second Renewal, if applicable and its period & expiry	--
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	30.03.2030 तक वैध
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	श्री रूपवंत सिंह GMDC Ltd, खनिज भवन, 132 फिट रिंग रोड, वस्त्रपुर, अहमदाबाद (गुजरात) दिनांक 14.06.2021 से
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	श्री समा राम राठोड GMDC Ltd, गढसीसा, तालुका- मांडवी- 370445, कच्छ (गुजरात) फोन- 02834-282289, 082026, फैक्स- 02834-282310 gadhsisa@gmdcltd.com दिनांक 16.03.2022 से
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	श्री डी.वी.पटेल GMDC Ltd, गढसीसा, तालुका- मांडवी- 370445, कच्छ (गुजरात) दिनांक 23.05.2023 से
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	श्री डी.वी.पटेल GMDC Ltd, गढसीसा, तालुका- मांडवी- 370445, कच्छ (गुजरात) खनन अभियांत्रिकी (स्नातक), 98251 63867 दिनांक 23.05.2023 से
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55&	कु. अंजना पी. वर्मा, भू वैज्ञानिक

	carrying out their duties as per rule 56 & 57.	GMDC Ltd, गढसीसा, तालुका- मांडवी- 370445, कच्छ (गुजरात) M.Sc (Geology), दिनांक 23.05.2023 से
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	684(4)(1)/MP-281(116)/2020-21MDRD(N)GNR, दिनांक 26.10.2020 2020-21 से 23-24
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	--
27	Mineral(s) granted in lease and proved for mining	बॉक्साइट
28	Method of Mining(Open cast, Underground)	Open cast
29	Category (Fully Mechanised, Others or Manual)	A
30	Captive/Non Captive	Non-Captive

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

#### Exploration

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
1a	Backlog of previous year	NIL	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.	1.180 million tonnes	1.304 million tonnes	
1f	General remarks of inspecting officer on geology, exploration etc.	Previously 25 boreholes, 8 pits have been done. Area has explored Up to G1 axis.		

#### 2.0 Development

SN	Item	Proposals (2022-23)	Actual (2022-23)	Remarks
2a	Location of development w.r.t. lease area	Pit No-2	Pit No-2	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	NIL	N.A	
2c	Stripping ratio or ore to OB ratio	1:0	1:0	
2d	Quantity of topsoil generation in m <sup>3</sup>	-	-	
2e	Quantity of overburden generation in m <sup>3</sup>	-	-	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	मांग की कमी के कारण उत्पादन कम हुआ।		

#### 3.0 Exploitation

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
3a	Number of pits proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	125000 टन	769.984 टन	सिलिका की समस्या के कारण वर्तमान में मांग की कमी है। इस कारण उत्पादन कम हुआ है।
3c	Recovery of saleable/usable mineral from ROM production	125000 टन	769.984 टन	
3d	Quantity of mineral reject generation	NIL	N.A	

3e	Grade of mineral reject generation and threshold value declared	NIL	N.A	
3f	Quantity of sub-grade mineral generation	NIL	N.A	
3g	Grade of sub-grade mineral generation	NIL	N.A	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	N.A	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	N.A	N.A	
3j	Provision of drilling & blasting in mineral benches	Proposed	NIL	
3k	Provision of mining machineries in mineral benches	Yes	Yes	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3.0 मी.	1.5 मी.	
3m	Total area covered under excavation/pits	28.22 हे.	24.52 हे.	
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 हे.	29.28 हे.	
3p	Production of ROM mineral during last five-year period, as applicable	2020-21: 125000 टन 2021-22: 125000 टन 2022-23: 125000 टन	2020-21: 4631.064 टन 2021-22: 10829.82 टन 2022-23: 769.984 टन	वर्ष 2020-21, 2021-22 तथा 2022-23 में क्रमशः 5352.98 टन, 1104.76 टन तथा 9946.51 टन प्रेषण किया गया।
3q	General remarks of inspecting officer on method of mining etc.	Quality संबंधी समस्या के कारण मांग की कमी है। इस कारण उत्पादन कम हुआ है। निरीक्षण के समय कार्य होता हुआ नहीं पाया गया।		

#### 4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	Yes	-	
4b	Location of topsoil, OB & mineral reject dumps	NIL	N.A	
4c	Number of dumps within lease area and outside lease area	NIL	N.A	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NIL	N.A	
4e	Number of active & alive dumps	NIL	N.A	
4f	Number of dead dumps	NIL	N.A	
4g	Number of dumps stabilised	NIL	N.A	
4h	Whether Retaining wall or garland drain all along dumps are there	NIL	N.A	
4i	Length of Retaining wall or garland drain all along dump	NIL	N.A	
4j	Number of settling ponds	NIL	N.A	
4k	Specific comments of inspecting officer	No OB generation.		

#### 5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	NIL	N.A	

5b	Area under backfilling of mined out area	NIL	N.A	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	NIL	N.A	
5d	Total area fully reclaimed & rehabilitated	NIL	N.A	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Not matured for backfilling.		

### 6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2)	As per rule	Submitted on 11.04.2023	
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 0.1 हे. 100 125 m. Fencing. ₹ 24,630/-	N.A 0.1 हे. 100 130 m. Fencing. ₹ 40,000/-	
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	NIL	NA	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	NIL	NA	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Yes	Yes	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Aesthetic beauty of office premises and leases area has been maintained with plantation. Fruit plants have grown in an innovative way.		

### 7.0 Mineral Conservation

SN	Item	Proposals (2022-23)	Actual (2022-23)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting.	As per proposal.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	As per proposal.	
7c	Different grade of mineral sorted out at mines	Bauxite i. PG: Al <sub>2</sub> O <sub>3</sub> > 52%	i. PG: Al <sub>2</sub> O <sub>3</sub> > 52% ii. NPG: Al <sub>2</sub> O <sub>3</sub> 40%< 52% iii. Sub grade: less than 10 mm	
7d	Any beneficiation process at mines	NIL	N.A	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Satisfactory.		

### 8.0 Environment

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	NIL	NIL	
8b	Concurrent use or storage of topsoil	NIL	N.A	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	NIL	N.A	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	N.A	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Mined out land will be use as water reservoir.	--	Not matured.
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	--	--	
8g	Survival rate	100%	60%	
8h	Water sprinkling on roads to control airborne dust	Proposed.	Achieved.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Aesthetic beauty of office premises and lease area is good. Fruit bearing plants have been planted.		

#### 9.0 Compliance of Rule 45

S. N	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	मई, 2023 की मासिक विवरणी दिनांक 06.06.2023 को जमा की गई। वर्ष 2022-23 की वार्षिक विवरणी दिनांक 27.06.2023 को जमा की गई।	

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	डी.वी.पटेल, खनन अभियंता अंजना पी. वर्मा, भू वैज्ञानिक	डी.वी.पटेल, खनन अभियंता अंजना पी. वर्मा, भू वैज्ञानिक	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	24.52 हे.	24.52 हे.	
9d	Scrutiny of Annual return on afforestation	100	100	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Yes	In order.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	In order.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Yes	In order.	
9i	Scrutiny of Annual return on fixed assets	Yes	In order.	
9k	Scrutiny of Annual return on mining machineries	Back hoe, Dumper, water tanker, front end loader	Back hoe, Dumper, water tanker, front end loader	

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

पिछले निरीक्षण दिनांक 19.12.2022 में कोई उल्लंघन नहीं पाया गया था। वर्तमान निरीक्षण स्टार रेटिंग मूल्यांकन के लिए किया गया। दिनांक 11.07.2023 को मूल्यांकन कर दिया गया है, मूल्यांकन के पश्चात खान 4 स्टार में रही हैं। निरीक्षण के समय कोई Significant violation नहीं पाया गया।

दिनांक :

(मनीष गुप्ता)

