

MCDR INSPECTION REPORT

1.0 **GENERAL**

S.No	Particulars	Details
1(a)	Name of the Mine	नरेडी-नांदरा बॉक्साइट खान
1(b)	Name of Inspecting Officer & Designation	मनीष गुप्ता, सहायक खान नियंत्रक
1(c)	Accompanying Mines Representatives	श्री एन.आर.सोलंकी, खान प्रबंधक
1(d)	Type of Inspection	स्टार रेटिंग
1(e)	Date of Inspection	02.12.2023
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	169.5968 हे.
3	Mine Code	07GUJ10017
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, मोटा नांदरा
7	Taluka/Mandal	अब्दासा
8	District	कच्छ
9	Pincode	370 670
10	State	गुजरात
11	Post office	कोटडा
12	Nearest police station	नलिया
13	Nearest Railway station	भुज
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	--
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	27.03.2056 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) फोन- 07927911454, फैक्स- 07927911321 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, गढ़सीसा, तालुका- मांडवी- 370445, कच्छ (गुजरात) फोन- 02834-282289, 082026, फैक्स- 02834-282310 gadhsisa@gmdcltd.com दिनांक 06.09.2023 से
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	श्री एन.आर.सोलंकी GMDC Ltd, गढ़सीसा, तालुका- मांडवी- 370445, कच्छ (गुजरात) 9824314442, दिनांक 09.05.2023 से
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	श्री एन.आर.सोलंकी GMDC Ltd, गढ़सीसा, तालुका- मांडवी- 370445, कच्छ (गुजरात) 9824314442, दिनांक 09.05.2023 से
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	हाँ
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific	684(4)(1)/MP-346/2021-22 GNR, दिनांक 23.08.2021

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	condition in approval letter, if any.	2021-22 से 25-26
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	--
27	Mineral(s) granted in lease and proved for mining	बॉक्साइट
28	Method of Mining(Open cast, Underground)	Opencast
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.	NIL	
1b	Exploration over lease area for Geological axis 1 or 2.	-	G1- 13.8983 हे. Non-mineralized area- 155.6985 हे.	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NIL	NIL	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	
1e	Balance reserves as on 01.04.2022.	1.8522 Million Ton	1.886 Million Ton	
1f	General remarks of inspecting officer on geology, exploration etc.	वर्ष 2022-23 के लिए पूर्वेक्षण प्रस्ताव नहीं हैं। पूर्व में 15 Borehole तथा 50 Exploratory pits लगाई गयी हैं।		

2.0 Development

SN	Item	Proposals (2022-23)	Actual (2022-23)	Remarks
2a	Location of development w.r.t. lease area	Virgin area between Pit- 1 & 4	Virgin area between Pit- 1 & 4	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	NIL	NIL	
2c	Stripping ratio or ore to OB ratio	1:0	1:0	
2d	Quantity of topsoil generation in m3	NIL	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.	पट्टा क्षेत्र undulating, gently sloping towards south- west है। Top soil, overburden नहीं है। पट्टा क्षेत्र में कुल 04 पिट विकसित कर उचित प्रकार से कार्य किया गया है।		

3.0 Exploitation

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
3a	Number of pits proposed for production	Two	Two	
3b	Quantity of ROM mineral production proposed	35000 टन	257.12 टन	
3c	Recovery of saleable/usable mineral from ROM production	35000 टन	257.12 टन	
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	Manual	Manual	

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	segregating from ROM			
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	Yes Back hoe, Tipper, Front end loader	Yes Back hoe, Tipper, Front end loader	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	4.26 मी.	3.0 मी.	
3m	Total area covered under excavation/pits	5.38 हे.	4.39 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	O/C Workings: 5.38 हे. Waste disposal: 0.60 हे. Plant, Building etc: 1.042 हे. Stack, Shorting yard: 4.392 हे. Total- 11.41	O/C Workings: 4.39 हे. Waste disposal: 0.60 हे. Plant, Building etc: 1.042 हे. Stack, Shorting yard: 4.392 हे. Total- 10.428	
3p	Production of ROM mineral during last five-year period, as applicable	2018-19: 51542 टन 2019-20: 54810 टन 2020-21: 53904 टन 2021-22: 35000 टन 2022-23: 35000 टन	2018-19: 9977.80 टन 2019-20: 30726.222 टन 2020-21: 34947.116 टन 2021-22: 13188.93 टन 2022-23: 257.512 टन	
3q	General remarks of inspecting officer on method of mining etc.	वर्तमान में NPG (<45% Al ₂ O ₃) grade का एक ही खरीदार होने तथा खान पर पर्याप्त Stock होने के कारण उत्पादन कम किया गया है। खान पर Rock breaker cum Excavator तथा Dumper combination का उपयोग कर Opencast 'A' method से कार्य किया गया है। निरीक्षण के समय खनन 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)	NIL	NIL	No proposal, no generation.
4b	Location of topsoil, OB & mineral reject dumps	Yes	Yes	
4c	Number of dumps within lease area and outside lease area	01	01	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NIL	NIL	
4e	Number of active & alive dumps	01	01	
4f	Number of dead dumps	NIL	NIL	
4g	Number of dumps stabilised	NIL	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there	NIL	190 मी.	
4i	Length of Retaining wall or garland drain all along dump	NIL	NIL	
4j	Number of settling ponds	NIL	NIL	
4k	Specific comments of inspecting officer	Working during the year carried out on already broken area, hence no top soil generated during the year. All excavated material is saleable after blending hence there is no mineral reject generation.		

5.0 Solid Waste Management-Backfilling

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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	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 36)	NIL	NIL	
5d	Total area fully reclaimed & rehabilitated	NIL	NIL	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No proposal for backfilling due to feasibility, however in conceptual plan water recharging proposal is given.		

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 26.10.2023	
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	NIL	
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	NIL	
6d	Compliance of Rehabilitation of waste land within lease 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	0.2 हे. 200 Fencing- 120 m. 22,000/-	0.2 हे. 200 10570 Fencing- 129 m. 227700/-	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Yes	Yes	
6f	General remarks of inspecting officer on PMCP compliance & progressive	वृक्षारोपण ठीक प्रकार से किया गया है। कम पानी का उपयोग करने वाली स्थानीय प्रजाति के पौधे लगाए गए हैं। Drip irrigation का उपयोग कर अच्छे से सार-संभाल की गयी है।		

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.	Grade wise sorting.	मांग की कमी होने के कारण उत्पादन कम हुआ है। ROM को
7b	Method of grade-wise mineral sorting i.e.	Manual	As per proposal.	

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	manual or mechanical			ग्रेड के अनुसार Stock कर रखा गया है।
7c	Different grade of mineral sorted out at mines	PG: Al ₂ O ₃ > 52% NPG: Al ₂ O ₃ 40 to <52%%	PG: Al ₂ O ₃ > 52% NPG: Al ₂ O ₃ 40 to <52%%	
7d	Any beneficiation process at mines	NIL	NIL	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Only sorting, sizing is done. Blending of material is also reported.		

8.0 Environment

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	NIL	NIL	
8b	Concurrent use or storage of topsoil	NIL	NIL	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Yes	Yes	No OB/waste generated during year.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NIL	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NIL	Not matured.
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	200	200	
8g	Survival rate	80%	80%	
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.		

9.0 Compliance of Rule 45

S. N	Item	COMMENTS		Remarks
	Status of submission of Monthly and Annual returns	नवम्बर की मासिक विवरणी दिनांक 07.12..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	श्री एन.आर.सोलंकी, खनन अभियंता श्री आर.एस.जडेजा, भू वैज्ञानिक	श्री एन.आर.सोलंकी, खनन अभियंता सुश्री ए.पी.वर्मा, भू वैज्ञानिक*	*Form-H submitted on 10.07.2023
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	O/C Workings: 4.39 हे. Waste disposal: 0.60 हे. Plant, Building etc: 1.042 हे. Stack, Shorting yard: 4.392 हे.	O/C Workings: 4.39 हे. Waste disposal: 0.60 हे. Plant, Building etc: 1.042 हे. Stack, Shorting yard: 4.392 हे.	
9d	Scrutiny of Annual return on afforestation	200	200	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	NIL	NIL	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	33378.417 टन	33378.417 टन	

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9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Production cost: 4567.63	मात्र 257.512 टन उत्पादन होने से Dead rent भुगतान के कारण Production cost अधिक आई है।
9i	Scrutiny of Annual return on fixed assets	₹ 1382405.00	₹ 1382405.00
9k	Scrutiny of Annual return on mining machineries	Back hoe- 01 Tipper- 02 Front end loader- 01 Water tanker- 01	Back hoe- 01 Tipper- 02 Front end loader- 01 Water tanker- 01

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

पिछले निरीक्षण दिनांक 21.12.2022 में नियम संख्या 33 read with 31(4) का उल्लंघन पाया गया था, दिनांक 17.05.2023 को इसकी अनुपालना हो गयी है। वर्तमान निरीक्षण तारक मूल्यांकन के लिए किया गया। दिनांक 13.12.2023 को स्टार रेटिंग मूल्यांकन कर दिया गया है, मूल्यांकन के पश्चात खान 4 स्टार से 4 स्टार रही है। निरीक्षण के समय खनन कार्य होता हुआ नहीं पाया गया। निरीक्षण के समय कोई Significant उल्लंघन नहीं पाया गया।

दिनांक:
गांधीनगर

(मनीष गुसा)
सहायक खान नियंत्रक