

MCDR INSPECTION REPORT

1.0 **GENERAL**

S.No	Particulars	Details
1 (a)	Name of the Mine	वांध-१ बॉक्साइट खान
1(b)	Name of Inspecting Officer & Designation	मनीष गुप्ता, सहायक खान नियंत्रक
1(c)	Accompanying Mines Representatives	श्री पी.एम.चाँदू खान प्रबंधक
1(d)	Type of Inspection	स्टार रेटिंग
1(e)	Date of Inspection	03.12.2023
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	73.38 हे.
3	Mine Code	07GUJ10012
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	वांध
7	Taluka/Mandal	मांडवी
8	District	कच्छ
9	Pincode	370 450
10	State	गुजरात
11	Post office	वांध
12	Nearest police station	गढशीशा
13	Nearest Railway station	भुज
14	Date of Grant of Mining Lease	12.06.1967
15	Date of Execution	12.06.1967
16	Date of opening of Mine	12.06.1967
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	11.06.2037 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, फ़ैक्स- 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, गढसीसा, तालुका- मांडवी- 370445, कच्छ (गुजरात) फोन- 02834-282289, 082026, फ़ैक्स- 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 पी.एम.चाँदू GMDC Ltd, गढसीसा, तालुका- मांडवी- 370445, कच्छ (गुजरात) pmchandu@gmdcltd.com 9913567330, दिनांक 07.06.2022 से
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	वही
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	684(4)(1)/MP-378(279)/2021-22 GNR, दिनांक 18.01.2022

I/30030/2024

	Mining Plan with five-year period and specific condition in approval letter, if any.	2022-23 से 26-27
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(Opencast, 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.	NIL	G1- 73.38 हे. G2- NIL G2- NIL	
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.	1.5827 Million Ton	1.6834 Million Ton	
1f	General remarks of inspecting officer on geology, exploration etc.	वर्ष 2022-23 के लिए पूर्वक्षण प्रस्ताव नहीं हैं। पूर्व में 33 Borehole तथा 18 Exploratory pits लगाई गयी हैं। कार्य की स्थिति संतोषजनक है।		

2.0 Development

SN	Item	Proposals (2022-23)	Actual (2022-23)	Remarks
2a	Location of development w.r.t. lease area	Pit- 1, 2 & 3	Pit- 2	उत्पादन कम होने के कारण सीमित क्षेत्र में कार्य किया गया है।
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Yes	Yes	
2c	Stripping ratio or ore to OB ratio	1:0	1:0	
2d	Quantity of topsoil generation in m3	NIL	NIL	वर्ष 2022-23 के लिए top soil प्रस्ताव नहीं हैं।
2e	Quantity of overburden generation in m3	NIL	NIL	वर्ष 2022-23 के लिए OB प्रस्ताव नहीं हैं।
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	पट्टा क्षेत्र में मुख्यतः दो Bauxite pocket हैं। ये Small hill slope के along हैं। क्षेत्र में OB नहीं है तथा Top soil बहुत कम मात्रा में है। कुल 5 पिट बना कर Opencast 'A' तरीके से खनिज निक्षेप को उचित प्रकार से विकसित किया गया है।		

3.0 Exploitation

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
3a	Number of pits proposed for production	Three	One	
3b	Quantity of ROM mineral production proposed	114000 टन	14372.986 टन	
3c	Recovery of saleable/usable mineral from ROM production	114000 टन	14372.986 टन	
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral reject generation and	NIL	NIL	

I/30030/2024

	threshold value declared			
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	Yes	NIL	
3k	Provision of mining machineries in mineral benches	Yes Back hoe, Dumper, Front end loader	Yes Back hoe, Dumper, Front end loader	Excavator/loader and Dumper combination has been practised.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3.0 मी.	3.0 मी.	
3m	Total area covered under excavation/pits	18.4574 हे.	17.240 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	Pits: 18.4574 हे. Waste disposal: 0.58 हे. Plant, road etc: 1.199 Mineral storage: 5.5616	Pits: 17.240 हे. Waste disposal: 0.58 हे. Plant, road etc: 1.199 Mineral storage: 5.55	
3p	Production of ROM mineral during last five-year period, as applicable	2018-19: 115000 टन 2019-20: 115000 टन 2020-21: 115000 टन 2021-22: 115000 टन 2022-23: 115000 टन	2018-19: 85000 टन 2019-20: 64069.376 टन 2020-21: 30594.468 टन 2021-22: 21054.652 टन 2022-23: 14372.986 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। 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	Outside ultimate pit limit.	
4e	Number of active & alive dumps	NIL	NIL	
4f	Number of dead dumps	NIL	NIL	
4g	Number of dumps stabilised	01	01	
4h	Whether Retaining wall or garland drain all along dumps are there	NIL	NIL	
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

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
----	------	---------------------	-----------------------	---------

I/30030/2024

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 26.06.2023	
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	0.1 हे. 150 -- Fencing- 90 m. 75000.00	0.1 हे. 270 10183 Fencing- 90 m. 92100.00	
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) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	NIL	NIL	
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। 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.	
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	PG: Al ₂ O ₃ > 52% NPG: Al ₂ O ₃ 40 to <52%% Sub grade: Size less than 10 mm	PG: Al ₂ O ₃ > 52% NPG: Al ₂ O ₃ 40 to <52%% Sub grade: Size less than 10 mm	
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.		

I/30030/2024

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	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)	270	270	
8g	Survival rate	80%	70%	
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 28.06.2023 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 पी.एम.चौद्ध खन्नन अभियंता श्री पी.एच.दवे, भू वैज्ञानिक	श्री पी.एम.चौद्ध खन्नन अभियंता श्री पी.एच.दवे, भू वैज्ञानिक	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pits: 17.240 हे. Waste disposal: 0.58 हे. Plant, road etc: 1.199 Mineral storage: 5.55	Pits: 17.240 हे. Waste disposal: 0.58 हे. Plant, road etc: 1.199 Mineral storage: 5.55	
9d	Scrutiny of Annual return on afforestation	270	270	
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	65766.976 टन	65766.976 टन	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Production cost: 1271.24	1271.24	
9i	Scrutiny of Annual return on fixed assets	₹ 597018.00	दी गयी राशि में कार्यालय की कीमत जोड़ी गयी है।	
9k	Scrutiny of Annual return on mining machineries	Back hoe- 01 Dumper- 02 Front end loader- 01 Water tanker- 01	Back hoe- 01 Dumper- 02 Front end loader- 01 Water tanker- 01	

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

I/30030/2024

पिछले निरीक्षण दिनांक 30.10.2022 में कोई उल्लंघन नहीं पाया गया था। वर्तमान निरीक्षण तारक मूल्यांकन के लिए किया गया। दिनांक 21.12.2023 को स्टार रेटिंग मूल्यांकन कर दिया गया है, मूल्यांकन के पश्चात खान 5 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