

MCDR INSPECTION REPORT

1.0 **GENERAL**

S.No	Particulars	Details
1(a)	Name of the Mine	मेवासा बॉक्साइट खान
1(b)	Name of Inspecting Officer & Designation	मनीष गुप्ता, सहायक खान नियंत्रक
1(c)	Accompanying Mines Representatives	श्री हेत डी. टांक, भू वैज्ञानिक
1(d)	Type of Inspection	स्टार रेटिंग
1(e)	Date of Inspection	07.08.2024
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	189.96 हे. (Non-forest)
3	Mine Code	07GUJ07031
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	मेवासा
7	Taluka/Mandal	कल्याणपुर
8	District	देवभूमि द्वारका
9	Pincode	361315
10	State	गुजरात
11	Post office	भाटिया
12	Nearest police station	कल्याणपुर
13	Nearest Railway station	भाटिया
14	Date of Grant of Mining Lease	20.06.1969
15	Date of Execution	01.12.1969
16	Date of opening of Mine	01.12.1969
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	राज्य सरकार के पत्र संख्या MCR-102019-806-CHH, दि. 06.01.2020 के अनुसार दिनांक 30.11.2039 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- 97277 92726, फ़ैक्स- 07927911321, contact@gmdcltd.com दिनांक 14.06.2021 से
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	श्री वी.के.सिंह GMDC Ltd, मेवासा, तालुका- कल्याणपुर- 361315, जिला- देवभूमि द्वारका (गुज.) फोन- 9727792850, फ़ैक्स- 02834-282310 gm.mines.bhatia@gmdcltd.com, दिनांक 27.12.2023 से
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	वही
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 Mining Plan with five-year period and specific condition in approval letter, if any.	684(4)(1)/MP-269(55)/2020-21 MDRD(N)/ GNR, दिनांक 11.08.2020 2020-21 से 24-25

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 (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.	NIL	G1- 186.96 हे. G2- NIL G3- 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 01.04.2024	1448367 टन	1513079 टन	
1f	General remarks of inspecting officer on geology, exploration etc.	वर्ष 2023-24 के लिए पूर्वक्षण प्रस्ताव नहीं हैं। पूर्व में 187 Borehole लगाए गए हैं। पूर्वक्षण कार्य की स्थिति संतोषजनक है।		

2.0 Development

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
2a	Location of development w.r.t. lease area	Pit- 6, 9	Pit- 6, 9	निरीक्षण के समय N 22° 13' 47" E 69° 19' 10" तथा N 22° 14' 14" E 69° 18' 30" पर खनन कार्य पाया गया।
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Yes	Yes	वर्ष 2023-24 के लिए top soil प्रस्ताव नहीं हैं। उत्पन्न Top soil वृक्षारोपण में उपयोग की जाती है।
2c	Stripping ratio or ore to OB ratio	1:0.09	1:0.03	
2d	Quantity of topsoil generation in m3	NIL	NIL	
2e	Quantity of overburden generation in m3	6093 मी ³	4959 मी ³	क्षेत्र में IB के प्रस्ताव हैं।
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	पट्टा क्षेत्र की Topography undulating है। Top soil बहुत कम मात्रा में है। खान में कुल 11 पिट बना कर Opencast 'A' तरीके से खनिज निक्षेप को उचित प्रकार से विकसित किया गया है।		

3.0 Exploitation

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
3a	Number of pits proposed for production	02	02	
3b	Quantity of ROM mineral production proposed	125000 टन	124936.043 टन	
3c	Recovery of saleable/usable mineral from ROM production	125000 टन	124936.043 टन	
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral reject generation and	NIL	NIL	

	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 Rock breaker, excavator, Dumper, loader	Yes Rock breaker, excavator, Dumper, loader	
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	43.89 हे.	39.20 हे.	
3n	Ore to OB ratio for the pit/mine during the year	1:0.09	1:0.03	
3o	Total area put in use under different heads at the end of year	Pits: 43.89 हे. Waste disposal: 1.9462 हे. Plant, road etc: 5.55 हे. Mineral storage: 14.94 हे.	Pits: 39.20 हे. Waste disposal: 1.174 हे. Plant, road etc: 5.55 हे. Mineral storage: 14.946 हे.	
3p	Production of ROM mineral during last five-year period, as applicable	2019-20: 108749 टन 2020-21: 125000 टन 2021-22: 125000 टन 2022-23: 125000 टन 2023-24: 125000 टन	2019-20: 74223.38 टन 2020-21: 66190.97 टन 2021-22: 121156.81 टन 2022-23: 123003.26 टन 2023-24: 124936.04 टन	
3q	General remarks of inspecting officer on method of mining etc.	रोक ब्रेकर का उपयोग कर उचित प्रकार से कार्य किया गया है। निरीक्षण के समय खनन कार्य होता हुआ नहीं पाया गया।		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	Yes	Yes	
4b	Location of topsoil, OB & mineral reject dumps	Within lease, Outside working pit	Within lease, Outside working pit	
4c	Number of dumps within lease area and outside lease area	06	06	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	2458459(N) से 532676 (E) तथा 2458518 (N) से 532733 (E)	2458459(N) से 532676 (E) तथा 2458518 (N) से 532733 (E)	
4e	Number of active & alive dumps	02	02	
4f	Number of dead dumps	NIL	NIL	
4g	Number of dumps stabilised	04	04	
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	100 मी.	
4j	Number of settling ponds	NIL	NIL	
4k	Specific comments of inspecting officer	निर्धारित स्थान पर कार्य किया गया है। उत्पन्न IB में से कुछ मात्रा का उपयोग वृक्षारोपण की जगह तैयार करने में भी किया गया है।		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting	NIL	NIL	

	backfilling			
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	वर्ष 2023-24 के लिए Backfilling के प्रस्ताव नहीं हैं। पूर्व में 0.5 हे. में Backfilling की गयी है।		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2)	Yes	Yes	
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) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	1500 1.0 हे. फेंसिंग: 550 मी.	1525 1.012 हे. फेंसिंग: 550 मी.	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Yes	Yes	
6f	General remarks of inspecting officer on PMCP compliance & progressive	PMCP कार्य की प्रगति संतोषजनक है।		

7.0 Mineral Conservation

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade-wise	Grade-wise	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	
7c	Different grade of mineral sorted out at mines	Abrasives: Al ₂ O ₃ 60-62 %, SiO ₂ Max 2.0%, Fe ₂ O ₃ Max 2.5% Calcinations: Al ₂ O ₃ -56 to 60%, SiO ₂ Max 3.0%, Fe ₂ O ₃ Max 2.5-3.5%, Refractory: Al ₂ O ₃ 50 to 54%, SiO ₂ Max 3.0-4.0%, Fe ₂ O ₃ Max 4-6%,	Abrasives: Al ₂ O ₃ 60-62 %, SiO ₂ Max 2.0%, Fe ₂ O ₃ Max 2.5% Calcinations: Al ₂ O ₃ -56 to 60%, SiO ₂ Max 3.0%, Fe ₂ O ₃ Max 2.5-3.5%, Refractory: Al ₂ O ₃ 50 to 54%, SiO ₂ Max 3.0-4.0%, Fe ₂ O ₃ Max 4-6%,	
7d	Any beneficiation process at mines	NIL	NIL	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	केवल ग्रेड अनुसार Sorting की जाती है। निम्न श्रेणी खनिज को Blend कर उपयोग किया जाता है।		

8.0 Environment

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	NIL	NIL	वर्ष 2023-24 के लिए top soil प्रस्ताव नहीं हैं।
8b	Concurrent use or storage of topsoil	NIL	NIL	सामान्यतः उत्पन्न Top soil वृक्षारोपण में उपयोग की जाती है।
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Yes	Yes	
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	
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	1500	1525	
8g	Survival rate	70%	90%	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	खान एवं निकटवर्ती क्षेत्र में Aesthetic beauty ठीक है। वृक्षारोपण ठीक प्रकार से किया गया है। Drip irrigation का उपयोग कर अच्छे से सार संभाल की गयी है।		

9.0 Compliance of Rule 45

S. N	Item	COMMENTS		Remarks
	Status of submission of Monthly and Annual returns	माह जुलाई की मासिक विवरणी दिनांक 06.08.2024 को जमा की गई। वर्ष 2023-24 की वार्षिक विवरणी दिनांक 18.06.2024 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 वी.के.सिंह, खनन अभियंता श्री हेत डी. टांक, भू वैज्ञानिक	श्री वी.के.सिंह, खनन अभियंता श्री हेत डी. टांक, भू वैज्ञानिक	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pits: 39.20 हे. Waste disposal: 1.174 हे. Plant, road etc: 5.55 Mineral storage: 14.946	Pits: 39.20 हे. Waste disposal: 1.174 हे. Plant, road etc: 5.55 Mineral storage: 14.946	
9d	Scrutiny of Annual return on afforestation	1525	1525	
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	378661.637 टन	378661.637 टन	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Production cost: 1514.38	उचित प्रतीत होती है।	
9i	Scrutiny of Annual return on fixed assets	₹ 2185480.00	₹ 2185480.00	
9k	Scrutiny of Annual return on mining machineries	Shovel, Dumper, Water tanker	Shovel, Dumper, Water tanker	

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

पिछले निरीक्षण दिनांक 06.08.2023 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 रही है। निरीक्षण के समय खनन कार्य होता हुआ नहीं पाया गया। निरीक्षण के समय कोई Significant उल्लंघन नहीं पाया गया।

दिनांक:
गांधीनगर

(मनीष गुप्ता)
सहायक खान नियंत्रक
भारतीय खान ब्यूरो