

I/25521/2024-1.0 **GENERAL**

SN	Particulars	Details
1(a)	Name of the Mine	Ratadia-Nagrecha Bauxite Mine.
1(b)	Name of Inspecting Officer & Designation	Sh.Mohammad Nimar, Deputy Controller of Mines
1(c)	Accompanying Mines Representatives	Sh. B.B. Sankhat, Mines Manager
1(d)	Type of Inspection	Star Rating & MCDR Inspection
1(e)	Date of Inspection	02/12/2023
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	204.070 Hectares
3	Mine code	07GUJ10008
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/727/2011
5	Name of the lessee, Address, phone, email and fax number	M/S GMDC LTD
6	Village	Nana-Mota Ratadia Nagrecha
7	Taluka/Mandal	Mandvi
8	District	Kutch
9	Pin code	370465
10	State	Gujarat
11	Post office	NanaRatadia
12	Nearest police station	Mandvi
13	Nearest Railway station	Bhuj
14	Date of Grant of Mining Lease	19/01/1977
15	Date of Execution	19/01/1977
16	Date of opening of Mine	19/01/1977
17	Date of first Renewal, if applicable and its period & expiry	19/01/1997 to 19/01/2017
18	Date of second Renewal, if applicable and its period & expiry	19/01/2017 to 31/03/2030
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	16/12/2019
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	SHRI ROOPWANT SINGH IAS [MD]. M/s. GUJARAT MINERAL DEVELOPMENT CORPORATION Ltd. GMDC Ltd, KHANIJ BHAWAN 132 Ft Ring Road, University Ground, Vastrapura, Ahmedabad. (GUJARAT)-380052 Fax No- 07927911321, Phone No- 07927911454 Date of Appointment.- 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. - 06/09/2023
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri.B.B. Sankhat, Mines Manager Ratadiya-Nagrecha Bauxite Mines, NanaRatadia, Tal-Mandvi, Dist.-Kutch(Gujarat)-370465

		MCDR-MIFLOBXT/133/2022-GNR-JBM-RO-GNR 2022-GNR-JBM-RO-GNR
		Date of Appointment. – 14/06/2023
1/25521/2024	23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine Shri B.B. Sankhat(B.E.Mining) M/s. GUJARAT MINERAL DEVELOPMENT CORPORATION Ltd. BAUXITE PROJECT, GADHSISA TAL- MANDVI, DIST.-KUTCH (Gujarat)-370445 Date of Appointment. – 14/06/2023
	24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56&57. Geologist- Shri A.B.Limbachiya Date of Appointment. –08/09/2023
	25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any. 23 FEB 2022 For Period: 2022-23 to 2026-27
	26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any. VIDE LETTER NO-684(4)(1)/MP-380(114)/2021-22GNR/2516 Date of approval: 23 FEB 2022
	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 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	Area is fully explored upto G1 Level.
1b	Exploration over lease area for Geological axis 1 or 2.	G1	G1	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No Proposal	As reported no work carried out	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	As reported no work carried out	
1e	Balance reserves as on 01.04.2023	2.788059 mill. tonne (2.888059-0.100)	2.840615 mill. tonne (2.888059-0.047444)	
1f	General remarks of inspecting officer on geology, exploration etc.	No Exploration work carried out in 2022-23. Total lease area is explored in G1		

2.0 Development

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
2a	Location of development w.r.t. lease area	Pit No.3 & 4	Pit No. 3 & 4	

MCDR-MFLD/BXT/133/2022-GNR-IBM_RO_GNR				
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Yes	Yes	
2c	Stripping ratio of ore to OB ratio	1:1.067(CUM)	1:0.277	
2d	Quantity of topsoil generation in m ³	1955.12	13175	
2e	Quantity of overburden generation in m ³	106762.1	13175	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Pit Developed as per the proposal.		

3.0 Exploitation

SN	Item	Proposals (2022-23)	Actual work(2022-23)	Remarks
3a	Number of pits proposed for production	Pit no 3 &4	Pit no 3 &4	
3b	Quantity of ROM mineral production proposed	100000	47443.894	
3c	Recovery of salable/usable mineral from ROM production	100000	47443.894	
3d	Quantity of mineral reject generation	0	0	
3e	Grade of mineral reject generation and threshold value declared	No Proposal	Not applicable	
3f	Quantity of sub-grade mineral generation	No Proposal	Not applicable	
3g	Grade of sub-grade mineral generation	No Proposal	Not applicable	
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	Not Proposed	NIL	
3j	Provision of drilling & blasting in mineral benches	YES	As and when required	Not done
3k	Provision of mining machineries in mineral benches	05 Excavator-01 Dumper-02 Loader-01 Excavator cum breaker-01	05 Loader-1, Backhoe/excavator-1 Dumper-2,Explosive Van-1	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Min Height -03 m Min Width - 03 m	Height and width are as per AMP	
3m	Total area covered under excavation/pits	27.98	27.980	
3n	Ore to OB ratio for the pit/mine during the year	1:1.067	1:0.277	
3o	Total area put in use under	37.32	38.396	

MCDR-MFLQBXT/133/2022-GNR-IBM_RO_GNR						
	different heads at the end of year	Proposal		Actual		Dispatch
3p	Production of ROM mineral during last five-year period, as applicable	2018-19	100000	2018-19	70843.521	40,039.110
		2019-20	100000	2019-20	80087.000	52,011.520
		2020-21	100000	2020-21	93633.126	77,203.74
		2021-22	100000	2021-22	26878.680	49,253.73
		2022-23	100000	2022-23	47443.894	25,901.81
3q	General remarks of inspecting officer on method of mining etc.	Method of Mining is opencast with HEMM and as per approved MP. There is no Overburden in mining area and height of benches in mineral is suitable for method of Mining proposed in Plan.				

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 32, 33)	1955.12 cum Topsoil 106762 MT Of OB	1955.12 cum Topsoil 13175 MT of OB	Less OB extracted due to less mineral produced.	
4b	Location of topsoil, OB & mineral reject dumps	---	13175 cum OB		
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)	No Proposal	Not applicable		
4e	Number of active & alive dumps	No Proposal	Not applicable		
4f	Number of dead dumps	No Proposal	Not applicable		
4g	Number of dumps stabilised	No Proposal	Not applicable		
4h	Whether Retaining wall or garland drain all along dumps are there	No Proposal	Not applicable		
4i	Length of Retaining wall or garland drain all along dump	No Proposal	Not applicable		
4j	Number of settling ponds	No Proposal	Not applicable		
4k	Specific comments of inspecting officer	No proposal for Solid waste dumping			

5.0 Solid Waste Management-Backfilling

S N	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	No Proposal	Not applicable	
5b	Area under backfilling of mined out area	---	1.076	1.67 Ha Total Back Filling
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Yes	Yes	

5d	Total area fully reclaimed & rehabilitated	MCDR-MIFLOBXT-133/2022-GNR-JBM_RO-GNR	Reclaimed but not rehabilitated
5e	General remarks of inspecting officer on backfilling, reclamation etc	Found Satisfactory	

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). Details should be given in the format as given in Annexure-20.	YES	Yes (Submitted Vide Letter No.: GMDC/CBPG/62/2023-24) Dated:-11/04/2023	
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (ha)	No Proposal	Not applicable	
	ii) Afforestation done (ha)	0.5	0.5	
	iii) No. of saplings planted during the year	300	300	
	iv) Cumulative no. of plants	11070	11070	
	v) Any other specific method of rehabilitation	Nil	Nil	
	vi) Cost incurred on watch & care during the year	Rs. 30000	Rs. 217380(Approx.)	
6c	Compliance on reclamation and rehabilitation by backfilling			
	i) Voids available for backfilling (L X B X D)	Yes	i)26.90 Hect.	Plantation on dump
	ii) Void filled by waste/tailings		ii)NA	
	iii) Afforestation on the backfilled area		iii)0.5Hect	
	iv) Rehabilitation by making water reservoir		iv)NA	
	v) Any other specific means		v)NA	
6d	Compliance of Rehabilitation of waste land within lease			
	i) Afforestation	300	300	
	ii) Area rehabilitated (ha)	0.5 Hect.	0.5Hect	
	iii) Method of rehabilitation	Afforestation	Afforestation	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Yes	Yes	
6f	General remarks of inspecting officer on PMCP compliance & progressive	The PMCP returns are submitted on time as per the provision of Rule 26 of MCDR 2017.		

7.0 Mineral Conservation

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
7a	ROM Mineral dispatch or	100000	25,901.81	Only manual

MCDR-MFL/LOBXT/133/2022-GNR-IBM_RO_GNR				sorting, sizing is done
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	
7c	Different grade of mineral sorted out at mines	Proposed	As per Proposal	
7d	Any beneficiation process at mines	NA	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Done as per the AMP		

8.0 Environment

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Not done	
8b	Concurrent use or storage of topsoil	Yes	No top soil removed	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Proposal	As reported no work carried out	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	YES	13175 cum	Backfilling
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)	10770(existing)+300	300	
8g	Survival rate	75%	60%	
8h	Water sprinkling on roads to control airborne dust	Through water tanker	Through water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Found Satisfactory.		

9.0 Compliance of Rule 45

S.N	Item	COMMENTS	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. of Nov'23 submitted on 07.12.2023 A.R 2022-23 submitted on 27.06.2023	

I/25521/2024

S.N	Item	MCDR-MiFLOBXT-1307022-GNR-Details of Annual GNR	BM-RO-GNR-Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engg. B.B. Sankhat Geologist H G Patel	Mining Engg. B.B. Sankhat Geologist A.B. Limbachiya	Notice of change of appointment given
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under pit- 27.980 ha Reclaimed area-1.076 Buildings, roads etc.- 1.700 Mineral Storage- 7.640	Area under pit-27.980 ha Reclaimed area-1.076 Buildings, roads etc.- 1.700 Mineral Storage-7.640	
9d	Scrutiny of Annual return on afforestation	300 No	300 No	
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	85005.694 MT	85005.694 MT	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Production cost- Rs. 1045.59/	Production cost- Rs. 1045.59/	
9i	Scrutiny of Annual return on fixed assets	Rs. 50817871/-	50817871/-	
9k	Scrutiny of Annual return on mining machineries	Back hoe-01 Dumper-02 Explosive van-01 Wheel loader-01	Back hoe-01 Dumper-02 Explosive van-01 Wheel loader-01	

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out: -No violations were pointed out in the year 2021-22. This year also no significant violation observed.

- Verification of Star Rating template done. After verification, the Mine awarded with four star rating but the self assessed Rating of the Mine was 5 Star.

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