

MCDR INSPECTION REPORT (Star Rating)

I/27833/2024

1.0 GENERAL

SN	Particulars	Details
1(a)	Name of the Mine	Mevasa Bauxite Mines, (Sr No. 437 & 396), GMDC Ltd.
1(b)	Name of Inspecting Officer & Designation	Sh. Naman Ekka, SMG
1(c)	Accompanying Mines Representatives	Shri. S. K. Joshi,
1(d)	Type of Inspection	Star Rating for Yr 2022-23
1(e)	Date of Inspection	06/08/2023
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease Area: 186.96.00 Hect (Non Forest: 186.96.00 Hect; Forest: 00 Hect.)
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	Name: Sh. Roopwant Singh, IAS – MD Add: GMDC Ltd, “Khanij Bhavan” 132 Feet Ring Road, Vastrapur – Ahmedabad Phone No: 97277 92726 E mail ID: tech@gmdcltd.com
6	Village	Mevasa
7	Taluka/Mandal	Kalyanpur
8	District	Devbhumi Dwarka
9	Pin code	361315
10	State	Gujarat
11	Post office	Bhatia
12	Nearest police station	Kalyanpur
13	Nearest Railway station	Bhatia
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	01-12-1989 – for 10 Year
18	Date of second Renewal, if applicable and its period & expiry	01-12-2009–for 20 Year and at present it is extended up to 30/11/2039 (As per letter dated 06/11/2020)
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	N.A.
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Name: Sh Roopwant Singh, IAS –Managing Director, Add: GMDC Ltd, “Khanij Bhavan” 132 Feet Ring Road, Vastrapur – Ahmedabad, Phone No: 97277 92726 E mail ID: tech@gmdcltd.com
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Name: Sh S.K. Joshi At & Po- Mevasa, Tal- Kalyanpur, Dist – Devbhumi Dwarka – Gujarat – 361315 Phone No: 90999 52088 E mail ID: bhatia@gmdcltd.com Dt of Appointment: 01-11-2020
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Name: Sh S.K Joshi At & Po- Mevasa, Tal- Kalyanpur, Dist – Devbhumi Dwarka – Gujarat – 361315 Phone No: 90999 52088 E mail ID: bhatia@gmdcltd.com Dt of Appointment: 01-11-2020
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Name: Sh S.K. Joshi At & Po- Mevasa, Tal- Kalyanpur, Dist – Devbhumi Dwarka Gujarat – 361315 Phone No: 90999 52088 E mail ID: bhatia@gmdcltd.com
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Sh. S N Patil - Geologist
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Approval No. 684(4)(1)/MP-269(55)/2020-21; Dt:11/08/2020 upto 2024-25
26	Date of Approval of Scheme of	N.A.

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	Mining/Modification Scheme for five-year period and specific condition in approval letter, if any.
27	Mineral(s) granted in lease and proved for mining
28	Method of Mining(Open cast, Underground)
29	Category (Fully Mechanised, Others or Manual)
30	Captive/Non Captive

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

1. Exploration

SN	Item	Proposals (2022-23)	Actual work	Remarks
1a	Backlog of previous year	No Proposal for Backlog Exploration	As Reported no work carried out	
1b	Exploration over lease area for Geological axis 1 or 2.	No Proposal for Exploration	Entire lease Area has been explored in G1 Category	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not Proposed	Total 136 BH was Drilled from 2010-11 to 2018-19 with a cost of 9.15 Lakhs	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal for Exploration	As Reported no work carried out	
1e	Balance reserves as on 01.04.2022	Reserves – 1761021 Tons Remaining Resources – 1190417 Tons	Reserves – 1761021 Tons Remaining Resources – 1190417 Tons	
1f	General remarks of inspecting officer on geology, exploration etc.	Entire lease area has been explored in G1 Category.		

2.0 Development

SN	Item	Proposals (2022-23)	Actual work	Remarks
2a	Location of development w.r.t. lease area	Pits No. 1,6,7& 9	Pits No. 1,6,7& 9	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No Proposal	As Reported no work carried out	
2c	Stripping ratio or ore to OB ratio	1:00	1:0.025	
2d	Quantity of topsoil generation in m ³	No Proposal	As Reported no work carried out	
2e	Quantity of overburden generation in m ³	No Proposal	As Reported no work carried out	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Development of PIT is done as per the approved RMP.		

3.0 Exploitation

SN	Item	Proposals (2022-23)	Actual work	Remarks
3a	Number of pits proposed for production	04 Pits	As reported 04 Pits were in Production	

	Quantity of ROM mineral production proposed	1200/2022-GNR-IBM-RO	1200/2022-GNR-IBM-RO	
3b	Quantity of ROM mineral production proposed			
3c	Recovery of saleable/usable mineral from ROM production	118750 Tons	116853 Tons	Saleable Bauxite
3d	Quantity of mineral reject generation	6250 Tons	As Reported not generated	
3e	Grade of mineral reject generation and threshold value declared	No Proposal	As Reported no work carried out	
3f	Quantity of sub-grade mineral generation	No Proposal	As Reported no work carried out	
3g	Grade of sub-grade mineral generation	No Proposal	As Reported no work carried out	-----
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized & Sorting Manual	Mechanized & Sorting Manual	-----
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Sub Grade: Below 30 % Al ₂ O ₃ Reject: Not Proposed	No Beneficiation done Reject: 35 – 40 % Al ₂ O ₃ (Dust)	-----
3j	Provision of drilling & blasting in mineral benches	Avoided Drill-Blast, as not required due to Rock Breaker	Avoided Drill-Blast, as not required due to Rock Breaker	-----
3k	Provision of mining machineries in mineral benches	Hyd. Excavator / Dumper / Loader/JCB etc used	Hyd. Excavator / Dumper / Loader/JCB etc used	-----
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	YES	YES	-----
3m	Total area covered under excavation/pits	Year Wise Proposal Not Mentioned.	38.256 Ha.	
3n	Ore to OB ratio for the pit/mine during the year	1:00	1:0.025	
3o	Total area put in use under different heads at the end of year	Year Wise Proposal Not Mentioned.	Covered under current (O-C) Workings – 38.256 Ha. Reclaimed-rehabilitated - 0.916 Ha. Used for waste disposal – 1.174 Ha. Occupied by plant, buildings, residential, welfare buildings and roads – 5.55 Ha. MINERAL STORAGE – 14.96 Ha.	
3p	Production of ROM mineral during last five-year period, as applicable	2018-19=125000 Tons 2019-20=125000 Tons 2020-21=118000 Tons 2021-22 = 125000 Tons 2022-23=125000 Tons	2018-19= 42942 Tons 2019-20= 74223.378 Tons 2020-21=66190.970 MT 2021-22 = 121157 Tons 2022-23=123003 Tons	
3q	General remarks of inspecting officer on method of mining etc.	Method of Mining adopted is Opencast and as per approved RMP.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2022-23)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Proposed for Mineral Reject and Top soil	Top soil Recovered during Mining is used	

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4b	Location of topsoil, OB & mineral reject dumps	In the Boundary of pillar No. 107 to 117.	In the Boundary of pillar No. 107 to 117.	
4c	Number of dumps within lease area and outside lease area	01 (in mined out area)	within lease area – 01 in mined out area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside Working PIT	Outside Working PIT	
4e	Number of active & alive dumps	02	02	
4f	Number of dead dumps	04	04-(Pit No-01,06 & 09)	
4g	Number of dumps stabilised	06	06	
4h	Whether Retaining wall or garland drain all along dumps are there	Not Proposed	NIL	
4i	Length of Retaining wall or garland drain all along dump	Not Proposed	NIL	
4j	Number of settling ponds	Not Proposed	NIL	
4k	Specific comments of inspecting officer	Solid waste Generated is Top soil utilized for Plantation and Mineral Rejects is dumped in the earmarked location.		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2022-23)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Full Extraction	As Reported no work carried out	No backfilling is proposed
5b	Area under backfilling of mined out area	1.00 Ha.	1.0291 Ha.	-----
5c	Concurrent use of top soil for restoration or rehabilitation of mined out area (Rule 32)	No Proposal	Top soil utilized for Plantation	-----
5d	Total area fully reclaimed & rehabilitated	1.0 Ha.	0.9156 Ha.	By plantation in the green belt area
5e	General remarks of inspecting officer on backfilling, reclamation etc	Backfilling, Reclamation has been done; Plantation has been done in the Boundary of pillar No. 107 to 117.		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2022-23)	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly -Rule 26(2).	Yes	PMCP Report submitted along with the Annual Return	
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	i) 2.9729 ii) 1.0 Hectar iii) 1500 No iv) No proposal v) No Proposal vi) No Proposal	i) Nearly 3.00 Ha. ii) 0.85 Hectar iii) 1521 No iv) 22789 v) No Work done. vi) 120000/-	
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	i) 216mX161mX7m Hect ii) No Proposal iii) No Proposal iv) No Proposal v) No Proposal	i) 0.9156 Hect. ii) Nil iii) Nil iv) 8.159 Ha. v) Nil	

	reservoir v) Any other specific means	MCDR-MiFLOBXT/29/2022-GNR-IBM_RO_GNR	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	No Proposal	As Reported no work carried out
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Monitoring of Air & Water within lease area	Complied (Quarterly monitoring in core and Buffer zone)
6f	General remarks of inspecting officer on PMCP compliance & progressive	PMCP Compliance has been carried out as per proposal.	

7.0 Mineral Conservation

SN	Item	Proposals (2022-23)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade Wise sorting within the lease area.	Grade wise sorting within lease area done.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanized and Manual both	Mechanized and Manual both	
7c	Different grade of mineral sorted out at mines	Al ₂ O ₃ – 30 % and above	Al ₂ O ₃ – 40 – 51.99 % Al ₂ O ₃ – 52 % & above	
7d	Any beneficiation process at mines	Not Proposed	As Reported no work carried out	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No Mineral Beneficiation Issues Reported during inspection.		

8.0 Environment

SN	Item	Proposals (2022-23)	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed for Plantation	Topsoil Utilized for Plantation.	
8b	Concurrent use or storage of topsoil	Concurrent	For Plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed	Yes – Sub-grade (i.e. Bauxite Dust) stacked at pit no 01 separately	Reject (Bauxite dust) generated during mining excavation)
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	As Reported no work carried out	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	As Reported no work carried out	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	No Information Given on Baseline data	As reported Cumulative 22789 trees.	
8g	Survival rate	90%	90%	
8h	Water sprinkling on roads to control airborne dust	By water sprinkling	Yes – During Mining Operation	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Mines surrounded by plants / trees of Arid to Semi-Arid region. Good Plantation has been done by the lessee to add good aesthetic beauty in and around mines area.		

9.0 Compliance of Rule 45

SN.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. submission on time. A.R. submission on time	

S.N	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for	Mining Engineer: Sh S K.	Mining Engineer: Sh	

	information on Mining Engineer, Geologist and Manager	Geologist: Sh S N Patil	Geologist: Sh S N Patil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O-C) Workings – 38.256 Ha. Reclaimed-rehabilitated – 0.916 Used for waste disposal- 1.174 Occupied by plant, buildings, residential, welfare buildings, Roads – 5.555 MINERAL STORAGE – 14.946	Covered under current (O-C) Workings – 38.256 Ha. Reclaimed-rehabilitated – 0.916 Used for waste disposal- 1.174 Occupied by plant, buildings, residential, welfare buildings, Roads – 5.555 MINERAL STORAGE – 14.946
9d	Scrutiny of Annual return on afforestation	1521 Plants with 90 % survival	1521 Plants with 90 % survival
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	Production: 123003.260 MT Closing Stock: 329808.439 MT	Production: 123003.260 MT Closing Stock: 329808.439 MT
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Refractory use: 2214.18 / MT	Refractory use: 2214.18 / MT
9i	Scrutiny of Annual return on fixed assets	INR : 2330613/-	Reported by the lessee itself.
9k	Scrutiny of Annual return on mining machineries	Machinery: Hyd. Shovel, Dumper, Water Tanker	Machinery: Hyd. Shovel, Dumper, Water Tanker

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

During inspection No significant Violations observed