

MCDR INSPECTION INFORMATION SHEET

1.0 GENERAL

Date: 18/12/2022

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	Shri Pushpendra Gaur Regional Controller of Mines, Indian Bureau of Mines, Gandhinagar
1(c)	Accompanying Mines Representatives	Sh S M Joshi Agent cum Manager/General Manager GMDC LTD., Bauxite Project-Bhatia
1(d)	Type of Inspection	
1(e)	Date of Inspection	18/12/2022
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	GMDC Ltd, "Khanij Bhavan" 132 Feet Ring Road, Vastrapur – Ahmedabad Phone No: 97277 92723 E mail ID: bhatia@gmdcltd.com
6	Village	Mevasa
7	Taluka/Mandal	Kalyanpur
8	District	Devbhoomi 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	01-12-1999 – for 20 Year and At present it is extended up to 30/11/2039 (As per Lease extension letter of IMD, New Sachivalaya, Gandhinagar dated 06/01/2020)
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: contact@gmdcltd.com
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Name: Sh S M Joshi At & Po- Mevasa, Tal- Kalyanpur, Dist – Devbhoomi Dwarka – Gujarat – 361315 Phone No: 97277 92723 E mail ID: bhatia@gmdcltd.com Dt of Appointment: 07-04-2022
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Name: Sh S M Joshi At & Po- Mevasa, Tal- Kalyanpur, Dist – Devbhoomi Dwarka – Gujarat – 361315 Phone No: 97277 92723 E mail ID: bhatia@gmdcltd.com Dt of Appointment: 07-04-2022
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 M Joshi [Qualification: B E (Mining) & 1 st Class Mines Mgr – Metal (R), 26 Years' Experience] At & Po- Mevasa, Tal- Kalyanpur, Dist – Devbhoomi Dwarka Gujarat – 361315 Phone No: 97277 92723 E mail ID: bhatia@gmdcltd.com

22/1/22

24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Geologist: Sh. Ravi Bharatbhai Solanki, Mining Engineer: Sureshkumar Madanlal Joshi
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 Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	N.A.
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)	Fully Mechanised
30	Captive/Non Captive	Non Captive

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

1. Exploration

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
1a	Backlog of previous year	-----	-----	
1b	Exploration over lease area for Geological axis 1 or 2.	-----	-----	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not Proposed	NIL	
1d	Balance area to be explored to bring Geological axis in 1 or 2	-----	-----	
1e	Balance reserves as on 01.04.2022	30.7259 Lac MT	29.5143 Lac MT	
1f	General remarks of inspecting officer on geology, exploration etc.			

2.0 Development

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
2a	Location of development w.r.t. lease area	Pits No 1,7 & 9	Pit No. 1 & 7	In all there are 11 numbers of different pits in lease area.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	00	01	
2c	Stripping ratio or ore to OB ratio	2.6	1:0.0012	
2d	Quantity of topsoil generation in m ³	NIL	NIL	-----
2e	Quantity of overburden generation in m ³	23051	100	-----
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.			

3.0 Exploitation

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
3a	Number of pits proposed for production	Pit No. 1,7 & 9	Pit No. 1,7	As per quality of Bauxite
3b	Quantity of ROM mineral production proposed	125000 MT	121156.814 MT	

	Recovery of saleable/usable mineral from ROM production	125000 MT	121156.814MT	
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral reject generation and threshold value declared	Not proposed	Nil	
3f	Quantity of sub-grade mineral generation	NIL	NIL	
3g	Grade of sub-grade mineral generation	Below 20 % Al ₂ O ₃	-----	-----
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	Reject: Not Proposed	Not Applicable	-----
3j	Provision of drilling & blasting in mineral benches	Drilling & Blasting provision included as when required	No blasting carried out in the year 21-22	-----
3k	Provision of mining machineries in mineral benches	Excavator (1.1 M3)-3 Nos Dumper 17 MT: 5 Nos Pay loader/JCB: 1 No Water tanker: 5000 Ltr	Excavator (1.1 M3): 1 Rockbreaker:1 Nos:1 Tata Dumper (17 MT): 3 No Water tanker : 5000 Ltr	-----
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	43.8902 Hect.	36.893 Hect.	
3n	Ore to OB ratio for the pit/mine during the year	2.6	1:0.0012	Some OB/IB found in pit no 1 & 7
3o	Total area put in use under different heads at the end of year	Area under Mining: 43.8902 Waste dump site:1.9462 Mineral storage:14.9462 Infrastructure:1.6000 Roads:3.9552 Total area put in use under different heads:66.3378 Hect.	Area under Mining: 36.893 Waste dump site:1.174 Mineral storage:14.946 Infrastructure:5.555 Total area put in use under different heads:58.568 Hect.	
3p	Production of ROM mineral during last five-year period, as applicable	2017-18=125000 MT 2018-19=125000 MT 2019-20=125000 MT 2020-21=118000 MT 2021-22=125000 MT	2017-18= 72396 MT 2018-19= 42942 MT 2019-20= 74223.378MT 2020-21=124390.970 MT 2021-22=121156.814 MT	
3q	General remarks of inspecting officer on method of mining etc.	Satisfactory Bench face where working was going on, was in good workmanship state.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks																		
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Top soil: The top soil recovered during the mining will be immediately used in plantation OB: 23051 M3 IB/OB will be generated and which will be dumped at the proposed dump site.	Top soil: Used as proposed. O/B and I/B: 100 cu.m.																			
4b	Location of topsoil, OB & mineral reject dumps	Top soil: Not Applicable Location for dumping O/B:	Location for dumping O/B:																			
		<table border="1"> <thead> <tr> <th>Proposed Dump Sites</th> <th>Northing(m)</th> <th>Easting (m)</th> </tr> </thead> <tbody> <tr> <td>From</td> <td>2458373</td> <td>532798</td> </tr> <tr> <td>To</td> <td>2458461</td> <td>532919</td> </tr> </tbody> </table>	Proposed Dump Sites	Northing(m)	Easting (m)	From	2458373	532798	To	2458461	532919	<table border="1"> <thead> <tr> <th>Proposed Dump Sites</th> <th>Northing(m)</th> <th>Easting (m)</th> </tr> </thead> <tbody> <tr> <td>From</td> <td>2458373</td> <td>532798</td> </tr> <tr> <td>To</td> <td>2458461</td> <td>532919</td> </tr> </tbody> </table>	Proposed Dump Sites	Northing(m)	Easting (m)	From	2458373	532798	To	2458461	532919	
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4c	Number of Bauxite dust stacks within lease area and outside lease area	01 (in mined out area)	within lease area out area
4d	Location of Bauxite dust stacks w.r.t. ultimate pit limit (Rule 16)	Not applicable	Not applicable
4e	Number of active & alive Bauxite dust stacks		
4f	Number of dead Bauxite dust stacks		
4g	Number of Bauxite dust stacks stabilised		
4h	Whether Retaining wall or garland drain all along Bauxite dust stacks are there	Not Proposed	NIL
4i	Length of Retaining wall or garland drain all along dump	Retaining wall :Not Proposed, Garland Drain: 50m	Garland Drain: 50m
4j	Number of settling ponds	Not Proposed	NIL
4k	Specific comments of inspecting officer		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2021-22)	Actual work(2021-22)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not proposed	NIL	
5b	Area under backfilling of mined out area	Not proposed	NIL	----
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not proposed	NIL	----
5d	Total area fully reclaimed & rehabilitated	Not proposed		
5e	General remarks of inspecting officer on backfilling, reclamation etc			

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2021-22)	Actual work(2021-22)	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	
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	Not Proposed	N.A.	
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	i) 216mX161mX7mHect ct Not Proposed	i) 0.3 Hect. ii) Nil iii) Nil	Back filled with available material. Already carried out in earlier years.

	area iv) Rehabilitation by making water reservoir v) Any other specific means	iv) 2.5 Hect. v) Not Proposed	iv) 6.9 Hect. v) Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Not proposed	N.A.	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Monitoring of Air & Water within lease area	Complied (Monthly monitoring in core zone)	
6f	General remarks of inspecting officer on PMCP compliance & progressive			

7.0 Mineral Conservation

SN	Item	Proposals (2021-22)	Actual work(2021-22)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Within Lease Area: 125000 MT	Within Lease Area: 121157.840 MT	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanized bench development and sorting – sizing by Manual	Mechanized bench development & sorting – sizing by Manual	
7c	Different grade of mineral sorted out at mines	PG- (Al ₂ O ₃ – 52 %& above) NPG-(Al ₂ O ₃ – 40 – 51.99 %) Dust- (Al ₂ O ₃ – Below 40%)	Al ₂ O ₃ – 52 %& above Al ₂ O ₃ – 40 – 51.99 % Dust- (Al ₂ O ₃ – Below 40%)	
7d	Any beneficiation process at mines	Not Proposed	N.A.	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Lateritic capping as top layer 1 to 1.5 which is used for blending with Bauxite and after blending it is produced and extracted as NPG grade. Then Mineral Conservation aspect seen.		

8.0 Environment

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed	Nil.	
8b	Concurrent use or storage of topsoil	Not proposed	For Plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not proposed	Yes – Sub-grade (i.e. Bauxite Dust) stacked at pit no 01 separately	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	No	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	N.A.	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	1.0 Hect in Year 2021-22	0.96 Hect Green Belt Development till Yr 2021-22	
8g	Survival rate	70%	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			

9.0 Compliance of Rule 45

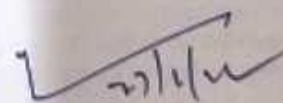
SN.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto - November-2022 A.R. submitted upto- March 2021-22	

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	Manager: Sh S M Joshi Engineer: Sh S M Joshi Geologist: Sh S N Patil		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Exploited area: 0.000 Hect Cur Working: 36.893 Hect; Waste Disposal: 1.174 Hect; Plant/Building etc.: 5.555 Hect; Mineral Storage: 14.946 Hect; Under progressive Mine closure plan: 0.000 Hect; Total : 58.568 Hect		
9d	Scrutiny of Annual return on afforestation	1265 Plants with 90 % survival		
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Mineral Sub-grade (30 - 40 % Al ₂ O ₃) : 40000MT Dust		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Production: 121156.814 MT Closing Stock: 267824.684 MT		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	1. Cement / Aluminause (NPG Bauxite): 929.37/ MT 2. Abrasive Use (PG Bauxite): 1407.00/MT 3. Refractory use (PG Bauxite): 2097.73 / MT		
9i	Scrutiny of Annual return on fixed assets	INR : 2805840		
9k	Scrutiny of Annual return on mining machineries	Machinery: Hyd. Exc., JCB, Dumper, etc.		

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

None in previous inspection dt. 17-09-2021

This inspection No significant violation observed.



Shri Pushpendra Gaur
Regional Controller of Mines,
Indian Bureau of Mines, Gandhinagar
