

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1(a)	Name of the Mine	Nana Gonyiasar Bauxite Mine (70.93Ha)
1(b)	Name of Inspecting officer & Designation	G. Ram, Sr.Assistant Controller of Mines
1(c)	Accomp.official	Shri SG Patel, H R Joshi, MM
1(d)	Date & Type of Inspection	25.10.2018 & Star Rating
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	70-93-00 Hect. (Non-Forest)
3	Mine code	07GUJ10011
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/727/2011
5	Name of the lessee, Address, phone, email and fax number	Gujarat Mineral Development Ltd., Khanij Bhavan, 132 Ft Ring Road-Vastrapur, Ahemdabad-380052; Ph-(pr)(02834)282289 Email:gadhsisa_2@gmdcltd.com
6	Village	Nana Gonyiasar
7	Taluka/Mandal	Mandvi
8	District	Kutch
9	Pin code	370670
10	State	Gujarat
11	Post office	Nana Gonyiasar
12	Nearest police station	Gadhsisa
13	Nearest Railway station	Bhuj
14	Date of Grant of Mining Lease	24-02-1967
15	Date of Execution	12-06-1967 for 20 Years.
16	Date of opening of Mine	01-02-2007
17	Date of first Renewal, if applicable and its period & expiry	12-05-1995
18	Date of second Renewal, if applicable and its period & expiry	Application submitted on 03.10.1996 for II renewal & under process. Lease expired on 11.6.2017 As per MMDR Amendment Act, 2015 extension of lease period is under process at State Govt.
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	08.03.2016
20	Name of the Nominated Owner with Address, phone, email, fax & appointment	Shri Arunkumar Solanki, GMDC Ltd. "Khanij bhavan", 132 FT Ring Road, Vastrapur, Ahmadabad., Appointment- 24-06-2016
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri S G Patel, Bauxite Project-Gadhsisa, Ta-Mandvi, Dis-Kutch, 370445, Mobile- 9727792510, Email: gadhsisa@gmdcltd.com Appointment- 01-11-2015
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri H R Joshi, MM, Nana Gonyiasar Bauxite Mine WEF 30-06-2017 to till date
23	Name of the Mining Engineer, Qualification and total Exp. with Address, phone, email, fax number and date of appointment in mine	Shri B.L.Kumawat, BE (mining Engg), Appointment- 26.4.2018
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri A.T.Pandya, MSc Geology & more than 05 years exp. Appointment- 01.6.2018
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	682(23)402/902-MCCM(N) UDP Dated-23/06/1994
26	Date of Approval of Scheme of Mining / Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	684(4) (1)/MP/ (113)/2018 MDRD (N) GNR Dated-20-4-2018 for the period of 2018-19 to 2021-22.
27	Mineral(s) granted in ML proved for mining	Bauxite
28	Method of Mining(Opencast, Underground)	Opencast.
29	Category (Fully Mech., Others or Manual)	A-Category
30	Captive/Non Captive	Non Captive & Joint venture with Gujarat Credo Minerals Ltd

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

Exploration

SN	Item	Proposals (2018-19)	Actual work	Remarks
1a	Backlog of previous year	--	26 Core borehole of 5-19m depth each has drilled in 2015-16 against 24 proposed borehole.	Copy of form J & K is submitted to IBM under provision of MCDR, 2017 on 22.7.2016. Khanna & Associated 330m Drilling done, Cost is about 193710/- Rs.
1b	Exploration over lease area for Geological axis 1 or 2.	3 Boreholes of 25m depth each is proposed as earmarked. (2016-17) 4 Boreholes of 25m depth each is proposed as earmarked.(2017-18)	26 Core borehole of 5-19m depth each has drilled in 2015-16 against 24 proposed borehole.	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	It was proposed to drill 04 No of borehole, 20m each as earmarked.	Initiatives taken for approval. Work will be start soon as reported.	
1d	Balance area to be explored to bring Geological axis in 1 or 2			
1e	Balance reserves as on 01.3.2018	The reserves & resources estimated as on 01.04.2018 is 2.91MT (111) & remaining resources are 3.90MT		
1f	General remarks of inspecting officer on geology, exploration etc.	NIL		

2.0 Development

SN	Item	Proposals (2018-19)	Actual work	Remarks
2a	Location of development w.r.t. lease area	It was proposed to work in Pit -1 to 3 as earmarked in plate no.5A	Mine workings done partly in Pit 1- 3	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Not Proposed	NIL	
2c	Stripping ratio or ore to OB ratio	1:0.00	1:0.00	No OB/Waste generated
2d	Quantity of topsoil generation in m3	No Top Soil	No topsoil generated for the year	
2e	Quantity of overburden generation in m3	Not Proposed	60M3	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Lagging in production due to lack of demand. During inspection, advised to mine representative to improve the aesthetic/general cleaning & level of mine/pit area.		

3.0 Exploitation

SN	Item	Proposals (2018-19)	Actual work	Remarks
3a	Number of pits proposed for production	It was proposed to work in Pit -1 to 3 as earmarked in plate no.5A	Mine workings done partly in Pit 1 to 3	Till Sept. 18
3b	Quantity of ROM mineral production proposed	125001T	39698.35T T	
3c	Recovery of salable/usable mineral from ROM production	112500T	39698.35T T	
3d	Quantity of mineral reject generation	64286T	----	
3e	Grade of mineral reject generation and threshold value declared	Cut off grade-About 40%Al ₂ O ₃ as per buyer's specification.	Mineral rejects are being utilised by proper sizing & sorting & blending as per buyer's specification.	
3f	Quantity of sub-grade mineral generation	Not Proposed	NIL	
3g	Grade of sub-grade mineral generation	Not Proposed	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	Lab Analysis	Analysis done in house & outside agency both.	
3j	Provision of drilling & blasting in mineral benches	J/H drilling & blasting for secondary blasting	J/H drilling & blasting for secondary blasting	

3k	Provision of mining machineries in mineral benches	Loader/Excavator/Rock Breaker and Tipper Combination are used.	Loader/Excavator/Rock Breaker and Tipper Combination are used.	
3l	Whether height of benches in OB and mineral suitable for method of mining proposed in MP/SOM	3.0 Meter	2.5-3.0 Meter	
3m	Total area covered under excavation/pits	6.5Ha area proposed in plan period.	Total excavated area is about 15.12 Ha. (Cumulative)	
3n	Ore to OB ratio for the pit/mine during the year	1: 0. 063	1: 0.00	
3o	Total area put in use under different heads at the end of year	-	15.12Ha (Cumulative)	
3p	Production of ROM mineral during last five-year period, as applicable	Yr-2014-15=122596T Yr-2015-16=127121T Yr-2016-17=134807T Yr-2017-18=42525T Yr-2018-19=125001T	Yr-2014-15=0.0T Yr-2015-16=11600T Yr-2016-17=143800T Yr-2017-18=34400T Yr-2018-19=39698.35T	
3q	General remarks of inspecting officer on method of mining etc.	Lagging in production due to lack of demand. During inspection, advised to mine representative to improve the aesthetic/general cleaning & level of mine/pit area.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2018-19)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate waste Dumping Proposed as earmarked in plate No.5A	No topsoil /OB generating presently.	Till Sept.18
4b	Location of topsoil, OB & mineral reject dumps	Separate waste Dumping Proposed as earmarked in plate No.5A	No topsoil /OB generating presently.	
4c	Number of dumps within lease area and outside lease area	Not Proposed	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Separate waste Dumping Proposed as earmarked in plate No. 5A.	NIL	
4e	Number of active & alive dumps	Not Proposed	NIL	
4f	Number of dead dumps	Not Proposed	NIL	
4g	Number of dumps stabilised	Not Proposed	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there	240m Fencing proposed along pit area	378m	
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	NIL		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2018-19)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Proposed	NIL (No O/B generated.)	Till Sept.18
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)	No proposal	Nil	
5d	Total area fully reclaimed & rehabilitated	Not Proposed	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Poor survival rate due to scarcity of water in surrounding area/low rainwater.		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2018-19)	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly	Yes	Submitted	Till Sept.18

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	Nil	Survival rate is low due to scarcity of water
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	Not Proposed	Nil	No OB generate for backfilling for the year
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	700 Plants 0.5 Ha	775 No 0.5 Ha near BP 18to26	378m fencing done.
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Yes	Monitoring is being carried out as per IBM guidelines.	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Poor survival rate due to scarcity of water in surrounding area/low rainwater.		

7.0 Mineral Conservation

SN	Item	Proposals (2018-19)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	125001T	39698.35T	Till Sept.18
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual Sorting	Manual Sizing & sorting using.	
7c	Different grade of mineral sorted out at mines	Yes	Yes	
7d	Any beneficiation process at mines	Not Proposed	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Poor survival rate due to scarcity of water in surrounding area/low rainwater. However lessee has been developed plantation near mine office/backfilled pit area.		

8.0 Environment

SN	Item	Proposals (2018-19)	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Proposed	Presently topsoil is not generated	Till Sept.18
8b	Concurrent use or storage of topsoil	Not Proposed	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not Proposed	NA	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	NA	
8f	Baseline information on existence of plantation & additional plantation done	Not Proposed	NA	
8g	Survival rate	Not Proposed	775 No 0.5 Hect	About 70%,
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	Poor survival rate due to scarcity of water in surrounding area/low rainwater.
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9.0 Compliance of Rule 45

S.N	Item	COMMENTS		Remarks
	Status of submission of Online Monthly and Annual returns	M.R. Submitted up to till date– Sept-2018 A.R. submitted up to till date- 2017-18 on 05.6.18		Till Sept.18
S.N	Item	Details given in A.R.2017-18		Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Shri BL Kumawat, ME Shri VK Sumera, (Geologist)	Shri B.L.Kumawat, BE (mining Engg), WEF- 26.4.18 & Sh.A.T.Pandya , MSc (Geology), WEF- 01.06.18	<i>It was advised to Mine representative to file online return correctly & using costing & Ex Mine Price as per IBM guidelines in future.</i>
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 15.12 Ha Current Open cast-0.45 Ha Road & Infrastructure -1.0Ha	About 15.12Ha (Cumulative)	
9d	Scrutiny of Annual return on forestation	935 Plants (82% Survival)	775Plants & 0.5Ha (70%) 2018-19	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Not Given	NIL	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	O/S-40751T, P-35094T, Disptch-75846T, C/S-0T	Directed to use the correct Ex Mine Price/Cost of Production as sale price published in GMDC site properly.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-Mine Price- Rs 650/T375 Chemical & cement grade. Cost of Production-Rs 787.9/T		
9i	Scrutiny of Annual return on fixed assets	Yes	Given	
9k	Scrutiny of Annual return on mining machineries	Excavator 200/Rock Breaker Tipper 17T, Loader/JCB	Excavator 200/Rock Breaker, Tipper 17T, Loader/JCB	

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out: - Mine was inspected for evaluation of Star Rating templates of mines. No significant violation observed presently.