

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, SR Rathore & SK Soni, Technical Person
1(d)	Date & Type of Inspection	13.03.2018 & RMP
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 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 V K Sumera, MSc Geology & more than 15 years exp. Appointment- 20.12.2017
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	682(23)(298)/2003 MCCM(N) UDP Dated-03.2.2004
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	682(23)(298)/2003 MCCM(N) UDP Dated-12-02-13 for the period of 2013-14 to 2017-18 (11.6.2017)
27	Mineral(s) granted in ML proved for mining	Bauxite
28	Method of Mining(Open cast, Underground)	Open cast.
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 (2016-17)& 2017-18	Actual work	Remarks
1a	Backlog of previous year	Not Proposed Not Proposed	NIL	NIL
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.	Copy of form J & K is submitted to IBM under provision of MCDR,2017 on 22.7.2016.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	26 Core borehole of 5-19m depth each has drilled in 2015-16 against 24 proposed borehole.	Khanna & Associated 330m Drilling done, Cost is about 193710/- Rs.	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	The part of lease area is still remains for exploration. Lessee has been proposed boreholes in present plan period.		
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 (2016-17) & 2017-18 (11.6.2017)	Actual work	Remarks
2a	Location of development w.r.t. lease area	Pit-1 to 3 as earmarked in plate no. V-D&V-E & V-F	Mine workings done partly in Pit 1- 3 & also worked in remaining pits where no proposal.	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Not Proposed Not Proposed	NIL	
2c	Stripping ratio or ore to OB ratio	1:0.063 1:0.063	1:0.00 1:0.00	No OB/Waste generated
2d	Quantity of topsoil generation in m3	No Top Soil No Top Soil	No topsoil generated for the year	
2e	Quantity of overburden generation in m3	7704M3 2430M3	Nil	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Violation of provision of Rules 11(1), 26(2), 33,55(1)(3) of MCDR,2017 pointed out for rectification.		

3.0 Exploitation

SN	Item	Proposals (2016-17) & 2017-18 (11.6.2017)	Actual work	Remarks
3a	Number of pits proposed for production	Pit-1 to 3 as earmarked in plate no. V-D&V-E & V-F Pit-1 to 3 as earmarked in plate no. V-D&V-E & V-F	Mine workings done partly in Pit 1 to 3 & also worked in remaining pits where no proposal was there.	
3b	Quantity of ROM mineral production proposed	134807T(2016-17) 42525T (2017-18)	143800T 34400T	(+6.7%)
3c	Recovery of salable/usable mineral from ROM production	121325T 38273T	134140T 35094T	
3d	Quantity of mineral reject generation	13480T 4250T	9660T 606T	
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 Not Proposed	NIL	
3g	Grade of sub-grade mineral generation	Not Proposed Not Proposed	NIL	

3h	Manual / Mechanised method adopted for segregating from ROM	Manual Manual	Manual	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Lab Analysis Lab Analysis	Analysis done in house & outside agency both.	
3j	Provision of drilling & blasting in mineral benches	J/H drilling & blasting J/H drilling & blasting	J/H drilling & blasting	
3k	Provision of mining machineries in mineral benches	HEMM with Loader/JCB & Tipper Combination	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	20.18 Ha (Cumulative)	14.69 Hect (Cumulative)	
3n	Ore to OB ratio for the pit/mine during the year	1: 0.063 1: 0.063	1: 0.00	
3o	Total area put in use under different heads at the end of year	Pit-20.18 (Waste/reject-0.87, Others-6.55)	14.69 (Cumulative)	
3p	Production of ROM mineral during last five-year period, as applicable	Yr-2013-14=112620T Yr-2014-15=122596T Yr-2015-16=127121T Yr-2016-17=134807T Yr-2017-18=42525T	Yr-2013-14=37000T Yr-2014-15=0.0T Yr-2015-16=11600T Yr-2016-17=143800T Yr-2017-18=34400T	
3q	General remarks of inspecting officer on method of mining etc.	Violation of provision of Rules 11(1), 26(2), 33,55(1)(3) of MCDR,2017 pointed out for rectification.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2016-17) & (2017-18)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate waste Dumping Proposed as earmarked in plate No.V-D & V-E.	No topsoil /OB generating presently.	
4b	Location of topsoil, OB & mineral reject dumps	Separate waste Dumping Proposed as earmarked in plate No.V-D & V-E.	No topsoil /OB generating presently.	
4c	Number of dumps within lease area and outside lease area	Within Lease area outside lease area	1 0	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Separate waste Dumping Proposed as earmarked in plate No. V-D & V-E.	NIL	
4e	Number of active & alive dumps	Not Proposed	NIL	
4f	Number of dead dumps	Not Proposed Not Proposed	NIL	
4g	Number of dumps stabilised	Not Proposed Not Proposed	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there	Not Proposed Not Proposed	NIL	
4i	Length of Retaining wall or garland drain all along dump	Not Proposed Not Proposed	NIL	
4j	Number of settling ponds	Not Proposed Not Proposed	NIL	
4k	Specific comments of inspecting officer	NIL		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2016-17) & 2017-18	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.)	
5b	Area under backfilling of mined out area	0.2408 Hect 0.2391 Hect	Nil Nil	

5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal	NA	
5d	Total area fully reclaimed & rehabilitated	0.2 Ha & 300 Plants 0.2 Ha & 300 Plants	0.4 Ha & 500 Plants 0.6 Ha & 935 Plants	
5e	General remarks of inspecting officer on backfilling, reclamation etc	NIL		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2016-17) & 2017-18	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly	Yes	Submitted on 30.06.2017	
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	0.2 Ha 300 Plants 300 Plants	0.4 Ha 500 (2016-17) 935 (2017-18) 27089 Plants Cumulative Plants Drip irrigation done	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	0.2408 Hect.	Nil Nil No	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	300 Plants 2016-17 300 Plants 2017-18 0.2 Hect/Manual	500 (2016-17) 935 (2017-18) 0.4 Hect/Manual	
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	Violation of provision of Rules 11(1), 26(2), 33,55(1)(3) of MCDR,2017 pointed out for rectification.		

7.0 Mineral Conservation

SN	Item	Proposals (2016-17) & 2017-18	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	134807T(2016-17)	143800T	
		42525T (2017-18)	34400T	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual Sorting	Manual Sizing & sorting	
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	NIL		

8.0 Environment

SN	Item	Proposals (2016-17) & 2017-18	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Proposed	Presently topsoil is not generated	
8b	Concurrent use or storage of topsoil	Not Proposed	NA	
8c	Separate dumps for overburden, waste	Not Proposed	NA	

	rock, rejects and fines (Rule 33)			
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	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	Violation of provision of Rules 11(1), 26(2), 33,55(1)(3) of MCDR,2017 pointed out for rectification.		

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- Feb-2018 A.R. submitted up to till date- 2016-17		
S.N	Item	Details given in A.R.2016-17		Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Shri S R Rathore, ME Shri J D Raj, (Geologist)	Shri B.L.Kumawat, BE (mining Engg), WEF- 26.4.18 & Sh.Vijay Sumera, MSc (Geology), WEF- 20.12.17	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 14.67 Ha Current Open cast-2.0 Ha Road & Infrastructure -1.0Ha	About 15.10Ha (Cumulative)	
9d	Scrutiny of Annual return on forestation	342 Plants (82% Survival)	300Plants (70%)	
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-1100T, P-143800T, Disptch-110743T, C/S-1300T	O/S-1100T, P-143800T, Disptch-110743T, C/S-1300T	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-Mine Price- Rs 647/T Cost of Production-Rs 538/T	Ex-Mine Price-Rs 647/T Cost of Production-Rs 538/T	
9i	Scrutiny of Annual return on fixed assets	145201244 Rs.	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 examination of RMP & approved by this office Dated 20.4.2018 for next plan period. Presently violation of provision of Rules 11(1), 26(2), 33 and 55(1)(3) observed & pointed out to lessee for compliances. The lessee has been submitted the reply & reported compliance of violation of rules.