

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1(a)	Name of the Mine	Naredi-II Bauxite Mines (66.97Ha)
1(b)	Name of Inspecting officer & Designation	G. Ram, Sr.Assistant Controller of Mines
1(c)	Accomp.official	Shri SR Rathore & Brijesh Sandhyal, Tech. Person Rep.
1(d)	Date & Type of Inspection	17.03.2018 & RMP
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	66.97Hect. (Non-Forest) Survey No. 445,446,483A&B
3	Mine code	07GUJ10002
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-(02834) 282289 Email:gadhsisa_2@gmdcltd.com
6	Village	Naredi
7	Taluka/Mandal	Abadasa
8	District	Kutch
9	Pin code	370465
10	State	Gujarat
11	Post office	Naredi
12	Nearest police station	Naliya
13	Nearest Railway station	Mothala
14	Date of Grant of Mining Lease	03-12-1977, MCR/1576(G-31)/7074/CHH
15	Date of Execution	17-7-2006
16	Date of opening of Mine	25-06-1979
17	Date of first Renewal, if applicable and its period & expiry	24/02/2006, MCR/1576(G-31)/7074/CHH
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
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 J B Pandya, GMDC Ltd., Bauxite Project-Gadhsisa, Ta-Mandvi, Dis-Kutch, 370445, Appointment- 28.08.2015
23	Name of the Mining Engineer, Qualification and total Exp. with Address, phone, email, fax number and date of appointment in mine	NA Mine is temporary discontinuance vide letter No GMDC /CBPG/IBM/UDP/11-12/1503 dated 12.03.2012 to till date
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	NA
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Letter No. 682(23) 321/2004-MCCN(M) UDP Dated 23/7/2004 for the Period of 2004-05 to 2008-09
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Letter No. 682(23) 321/2004-MCCN(M) UDP Dated 14/2/2013 for the Period of 2013-14 to 2017-18
27	Mineral(s) granted in ML proved for mining	Bauxite
28	Method of Mining(Opencast, Underground)	Opencast.
29	Category (Fully Mechanised, 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. –

1.0 Exploration

SN	Item	Proposals (2016-17) & 2017-18	Actual work	Remarks
1a	Backlog of previous year	It was proposed to drill 03 borehole up to 25m depth each as earmarked for the year 2013-14	03 Core borehole of 5-19m depth each done in 2015-16 against-3 proposed borehole. 06 no. of 3mx2mx2m exploratory trenches of about 2m done.	Copy of form J & K is submitted to IBM under provision of MCDR, 2017 on 22.7.2016.
1b	Exploration over lease area for Geological axis 1 or 2.	Not Proposed	NIL	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not Proposed	Khanna & Associated has been done 38 m Exploration Drilling which cost Rs. 22306/- of 03 boreholes.	
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 next plan period.		
1e	Balance reserves as on 01.3.2018	The reserves & resources estimated as on 01.04.2018 is 2.209MT		
1f	General remarks of inspecting officer on geology, exploration etc.	NIL		

2.0 Development

SN	Item	Proposals (2016-17) & 2017-18	Actual work	Remarks
2a	Location of development w.r.t. lease area	Pit No-1, 2,4 and 5 As earmarked in plate no. V-D & V-E	Not worked during the year	Mine is Temporary Discontinued from 01.08.2013 to till
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Proposed for separate bench	Topsoil/OB/Mineral bench made separately	
		Proposed for separate bench		
2c	Stripping ratio or ore to OB ratio	1:0.078	NIL	
		1:0.078	NIL	
2d	Quantity of topsoil generation in m ³	Not in Proposal	NIL	
		Not in Proposal		
2e	Quantity of overburden generation in m ³	11615 m ³	NIL	
		11680 m ³	NIL	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Presently mine was not working during inspection & lessee has been submitted the discontinued notice wef 01.8.2013 to till date.		

3.0 Exploitation

SN	Item	Proposals (2016-17) & 2017-18	Actual work	Remarks
3a	Number of pits proposed for production	Pit No-1, 2,4 and 5 As earmarked in plate no. V-D & V-E	NIL	Mine is Temporary Discontinued from 01.08.2013 to till date.
3b	Quantity of ROM mineral production proposed	149063T	NIL	
		149899T	NIL	
3c	Recovery of salable/usable mineral from ROM production	88% of ROM	NIL	
3d	Quantity of mineral reject generation	12% of ROM	NIL	
3e	Grade of mineral reject generation and threshold value declared	Cut-off grade-About 40% Al ₂ O ₃ as per buyer's specification.	NIL	
3f	Quantity of sub-grade mineral generation	Not Proposed	NIL	
		Not Proposed		
3g	Grade of sub-grade mineral	Not Proposed	NIL	

	generation	Not Proposed		
3h	Manual / Mechanised method adopted for segregating from ROM	Manual Manual	NA	Mine is Temporary Discontinued from 01.08.2013 to till date.
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Lab Analysis Lab Analysis	NA	
3j	Provision of drilling & blasting in mineral benches	J/H drilling & blasting J/H drilling & blasting	NA	
3k	Provision of mining machineries in mineral benches	HEMM with Loader/JCB & Tipper Combination	NA	
3l	Whether height of benches in OB and mineral suitable for method of mining proposed in MP/SOM	3.0 Meter	N.A	
3m	Total area covered under excavation/pits	---	About 15.85 Hect.	
3n	Ore to OB ratio for the pit/mine during the year	1:0.078 1:0.078	NIL NIL	
3o	Total area put in use under different heads at the end of year	---	Pit- 15.85 Ha Waste/reject-1.95 Ha Others-2.08 Ha	
3p	Production of ROM mineral during last five-year period, as applicable	Yr-2013-14- 149596T Yr-2014-15- 149530T Yr-2015-16- 149530T Yr-2016-17- 149063T Yr-2017-18- 149899T	Yr-2013-14- 16957.39 T Yr-2014-15- 0T Yr-2015-16- 0T Yr-2016-17- 0T Yr-2017-18- 0T(till)	
3q	General remarks of inspecting officer on method of mining etc.	Presently mine was not working during inspection & lessee has been submitted the discontinued notice wef 01.8.2013 to till date.		

5.0 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)	Pit No-1, 2,4 and 5 As earmarked in plate no. V-D & V-E	NIL	Mine is Temporary Discontinued from 01.08.2013 to till date.
4b	Location of topsoil, OB & mineral reject dumps	Separate waste Dumping Proposed as earmarked in plate No.V-D & V-E.	NIL	
4c	Number of dumps within lease area and outside lease area	Within Lease area outside lease area	NIL	
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	232 m 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	Not Proposed	NIL	

5b	Area under backfilling of mined out area	0.2420 Ha	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	NIL	
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 Hact 300 Plants 15000 as per EC Manual with Drip system Rs. 15000 /-	0.6 Ha 250 Plants 23264 Manual with Drip system Rs 70,000/-	
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	0.2420 Ha	NIL	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	0.2 Ha Plantation/ water Reservoir	0.6 Ha Plantation/water Reservoir	
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	Presently mine was not working during inspection & lessee has been submitted the discontinued notice wef 01.8.2013 to till date.		

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	149063T	NIL	
		149899T	NIL	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual Sorting	NIL	
7c	Different grade of mineral sorted out at mines	Yes, (i) PG ($Al_2O_3 \geq 52\%$) (ii) NPG ($Al_2O_3 40$ to $< 52\%$) (iii) Rejects size less than 10 mm	NIL	
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		
8a	Separate removal and utilization of topsoil (Rule 32)	Not Proposed	NIL	
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	Good aesthetic near mine office	
8g	Survival rate	Not Proposed	About 68%	
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	Presently mine was not working during inspection & lessee has been submitted the discontinued notice wef 01.8.2013 to till date.		

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 A.R. for year 2016-17 is submitted on 03.6.2017	
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 BL Kumawat, ME Shri SA Pillai, (Geologist)	<p>Not Appointed presently.</p> <p>Pit-15.85Ha Cumulative, Road & Infrastructure - 2.02 Ha 250 Plants & 68%</p> <p>The mine is Temporary Discontinued from 01.08.2013 to till date.</p> <p><i>It was advised to Mine representative to submit the online AR correctly costing, land used details etc. in future.</i></p>
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Not given correctly	
9d	Scrutiny of Annual return on forestation	346 Plants (80% Survival)	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	--	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	O/S-32616.753T, P-0T, Disptch-9465.120T, C/S-23152.633T	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-Mine Price- Rs 654.4/T Cost of Production-Rs 587/T	
9i	Scrutiny of Annual return on fixed assets	45201244 Rs.	
9k	Scrutiny of Annual return on mining machineries	Excavator 200/Rock Breaker Dumper 17T ,Loader/JCB	

Details of violations observed during current inspection and compliance position of earlier violation pointed out:-Mine was inspected for examination of Review of Mining Plan & Mine was not working during inspection & further lessee has been submitted the temporary discontinuance notice WEF-01.08.2013. Lessee has been submitted the online periodical return. Presently no significant violation observed & pointed out.

