

## MCDR INSPECTION REPORT

### 1.0 GENERAL

SN	Particulars	Details
1(a)	Name of the Mine	Naredi Nandra Bauxite Mines (66.98Ha)
1(b)	Name of Inspecting officer & Designation	G. Ram, Sr.Assistant Controller of Mines
1(c)	Accomp.official	Shri SG Patel & PK Adhikari, MM
1(d)	Date & Type of Inspection	30.10.2018 AN & Star Rating
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	169.59Ha ( Non-Forest) Survey No. various
3	Mine code	07GUJ10017
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- Nandra
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	28-3-2006
15	Date of Execution	28-3-2006
16	Date of opening of Mine	01-02-2007
17	Date of first Renewal, if applicable and its period & expiry	NA
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 PK Adhikari, GMDC Ltd., Bauxite Project-Gadhsisa, Ta-Mandvi, Dis-Kutch, 370445, Appointment- 03.11.2016
23	Name of the Mining Engineer, Qualification and total Exp. with Address, phone, email, fax number and date of appointment in mine	Shri S G Patel, BE(Mining) FCC WEF-01.6.2018 Shri RC Patel, MSc. (Geology) WEF-26.6.2018
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri S G Patel, BE(Mining) FCC WEF-01.6.2018 Shri RC Patel, MSc. (Geology) WEF-26.6.2018
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)282/2003-MCCN(N) UDP Dated 09/9/2003
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)(942)/1998/ MCCN(N) UDP Dated 15/9/2016 for the Period of 2016-17 to 2020-21.
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 (2018-19)	Actual work	Remarks
1a	Backlog of previous year	Not Proposed	G1-7.0, G2-16.86 & G3-11.50 and remaining lease area is non-mineralised. The area was explored by five agencies in various phases. Non-mineralised area is existed in lease area.	
1b	Exploration over lease area for Geological axis 1 or 2.	Not Proposed		
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not Proposed		
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not Proposed	Not done	
1e	Balance reserves as on 01.3.2018	The reserves & resources estimated as on 01.04.2016 is 284375T (111) & Remaining resources-36750T		
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 -2 as earmarked in plate no.5	Deviated due to lagging in production in plan period	Till Sept.18
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Proposed for separate bench	Yes	
2c	Stripping ratio or ore to OB ratio	1:0.1	1:0.0	
2d	Quantity of topsoil generation (m3)	Not in Proposal	NIL	
2e	Quantity of OB generation ( m3)	5891m3	NA	
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.		

**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 -2 as earmarked in plate no.5	Deviated due to lagging in production in plan period	Till Sept.18
3b	Quantity of ROM mineral production proposed	51542T	17358.2T	
3c	Recovery of salable/usable mineral from ROM production	35048T	-	
3d	Quantity of mineral reject generation	18040T	-	
3e	Grade of mineral reject generation and threshold value declared	Cut-off grade-About 40% Al <sub>2</sub> O <sub>3</sub> as per buyer's specification.	NIL	
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	NA	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Lab Analysis	NA	
3j	Provision of drilling & blasting in mineral benches	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	1.4ha	Total excavated area is about 6.5 Ha	

3n	Ore to OB ratio for the pit/mine during the year	1:0.2	NIL	
3o	Total area put in use under different heads at the end of year	---	Pit- About 6.5 Ha Waste/reject-0.5Ha	
3p	Production of ROM mineral during last five-year period, as applicable	Yr-2014-15- NA Yr-2015-16- NA Yr-2016-17- 29295T Yr-2017-18- 53276T Yr-2018-19- 51542T	Yr-2014-15- 34170T Yr-2015-16- 0T Yr-2016-17- 40600T Yr-2017-18- 1930.0T Yr-2018-19 -17358.2T	
3q	General remarks of inspecting officer on method of mining etc.	NIL		

#### **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 dumping of topsoil, OB/reject	Doing as proposed partly due to lagging	Till Sept.18
4b	Location of topsoil, OB & mineral reject dumps	As earmarked in Plate No.5	Deviated due to lagging	
4c	Number of dumps within lease area and outside lease area	Single	Single	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	NIL	
4e	Number of active & alive dumps	Single	Single	
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	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	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	Not Proposed	NIL	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)	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 (2018-19)	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly	Yes	Submitted	
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	

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	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	1.0 Ha 1000 Plantation	1.0 Ha 700 Plantation	
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			

### 7.0 Mineral Conservation

SN	Item	Proposals (2018-19)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	51542T	17358.1T	Till Sept.18
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 (2018-19)		
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	As proposed	
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	-	About 50%	
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			

### 9.0 Compliance of Rule 45

S.N	Item	COMMENTS	Remarks
	Status of submission of Online Monthly and Annual returns	M.R. Submitted online up to till date A.R. for year 2017-18 is submitted on 05.6.2018	
S.N	Item	Details given in A.R.2017-18	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer,	Shri BL Kumawat, ME Shri VK Sumera,	Shri BL Kumawat, (ME)WEF-

	Geologist and Manager	(Geologist)	Shri VK Sumera, (Geologist) WEF-	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	6.59Ha, Current O/c-0.89Ha, infrastructure/road-0.5Ha, others—15Ha, Plantation-1.0	6.59Ha, Current O/c-0.89Ha, infrastructure /road-0.5Ha, others—15Ha, Plantation-1.0	
9d	Scrutiny of Annual return on forestation	1000 Plants/ (Survival-80%)	750Plants (about 50%)	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	--	Rejects are used by sizing & blending	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	O/S&C/S-1200T <sup>(45Grade)</sup> O/S&C/S-354.35T (Ref) O/S-39654.8T,Prod.-1930,Dispatch-13416.5,C/S-28468T, Ex Mine-650Rs/T	Advised 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-650Rs/T Cost of Production-7189.38Rs/T		
9i	Scrutiny of Annual return on fixed assets	138242287 Rs.	Reported	
9k	Scrutiny of Annual return on mining machineries	Front End Loader-0.75m3 & Tipper 17T	As proposed	

Details of violations observed during current inspection and compliance position of earlier violation pointed out:-Mine was inspected for Star Rating of mines as working category mine. Lessee has been submitted the online periodical return. Presently no significant violation observed & pointed out. Advised to lessee for correct reporting the Sale price/Ex mine price as per GMDC web site sale value publication.