

## MCDR INSPECTION REPORT

Inspecting officer: Dr. N K Mathur, AMG, Gandhinagar

Inspection date: 09.02.2019, Type of Inspection: Star rating/MCDR

**1.0 GENERAL**

SN	Particulars	Details
1	Name of the Mine	Mahadevia & Gandhvi Bauxite Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease area- 168.3124 ha.(Non forest land)
3	Minecode	07GUJ07006
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/269/2011
5	Name of the lessee, Address, phone, email and fax number	<b>M/s. Nirmalaben S Mehta</b> M/s. Nirmalaben S Mehta Jamnagar Dwarka Highway, P.O-. Khambhalia, Tahsil/Taluka-Jam-Khambhalia, Distt-Devbhumi Dwarka, State-Gujarat Pincode-361305 Fax No-02833-234053 Phone No-02833-236893/94 Email-nirmalabensmehta@yahoo.com
6	Village	Mahadevia & Gandhvi
7	Taluka/Mandal	Kalyanpur
8	District	Devbhumi Dwarka
9	Pincode	361315
10	State	Gujarat
11	Post office	Bhatia
12	Nearest police station	Bhatia
13	Nearest Railway station	Bhatia
14	Date of Grant of Mining Lease	4/10/1963
15	Date of Execution	09/10/1963 (20 Years)
16	Date of opening of Mine	09/10/1963
17	Date of first Renewal, if applicable and its period & expiry	Date of first Renewal Application- 01/10/1882 Period- 10 Years Expiry Date-08/10/1993
18	Date of second Renewal, if applicable and its period & expiry	Date of Second Renewal Application-28/09/1992 Period- 20 Years Expiry Date-08/10/2013
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Date of Third Renewal Application-15/06/2012 Period- 20 Years Expiry Date- Lease has deemed to be renewal up to 31/03/2020 under MMDR Act 2015
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	<b>Name of the Nominated Owner-</b> Shri Hareshbhai Surendra Bhai Mehta <b>Address-</b> M/s. Nirmalaben S Mehta Jamnagar Dwarka Highway, P.O-. Khambhalia, Tahsil/Taluka-Jam-Khambhalia, Distt-Devbhumi Dwarka(Earlier Jamnagar), State-Gujarat Pincode-361305 Fax No-02833-234053

		Phone No-02833-236893/94
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	<b>Name of the Mine Agent</b> -Javed Sheikh <b>Address</b> - M/s. Nirmalaben S Mehta Jamnagar Dwarka Highway, P.O-. Khambhalia, Tahsil/Taluka-Jam-Khambhalia, Distt-Devbhumi Dwarka(Earlier Jamnagar),State-Gujarat Pincode-361305 Fax No-02833-234053 Phone No-02833-236893/94 <a href="mailto:Email-nirmalabensmehta@yahoo.com">Email-nirmalabensmehta@yahoo.com</a>
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	<b>Name of the Mine Manager</b> -Joshi Jitesh Maganlal <b>Address</b> - M/s. Nirmalaben S Mehta Jamnagar Dwarka Highway, P.O-. Khambhalia, Tahsil/Taluka-Jam-Khambhalia, Distt-Devbhumi Dwarka(Earlier Jamnagar),State-Gujarat Pincode-361305 Fax No-02833-234053 Phone No-02833-236893/94 <a href="mailto:Email-nirmalabensmehta@yahoo.com">Email-nirmalabensmehta@yahoo.com</a>

23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	<b>Name of the Mining Engineer</b> - Joshi Jitesh Maganlal <b>Address</b> - M/s. Nirmalaben S Mehta Jamnagar Dwarka Highway, P.O-. Khambhalia, Tahsil/Taluka-Jam-Khambhalia, Distt-Devbhumi Dwarka(Earlier Jamnagar),State-Gujarat Pincode-361305 Fax No-02833-234053 Phone No-02833-236893/94 <a href="mailto:Email-nirmalabensmehta@yahoo.com">Email-nirmalabensmehta@yahoo.com</a>
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	We have Appointed to Mr. Joshi Jitesh Maganlal as Mining Engineer and Mr N P Shukla as a Geologist to satisfy the rule 42 & carrying out their duties as per rule 43 & 44.
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Date of Approval of Mining Plan- 03/06/2016 Mining Plan period-2016-17 to 2019-20 Specific condition in approval letter, if any- Annexure No 1(Mining Plan Approval Letter)
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Date of Approval of Scheme of Mining- 05/08/2011 Five-year period-2011-12 to 2013-14 Specific condition in approval letter, if any- Annexure No 1(Scheme of Mining Approval Letter)
27	Mineral(s) granted in lease and proved for mining	Bauxite
28	Method of Mining(Open cast, Underground)	Open cast
29	Category (Fully Mechanised, Others or Manual)	Category A Fully Mechanised
30	Captive/Non Captive	Non Captive

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

**Exploration**

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
1a	Backlog of previous year	5 Trial pit	5 Trial pit	No any Trial pit was proposed in previous year
1b	Exploration over lease area for Geological axis 1 or 2.	125.2424 ha.	125.2424 ha.	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Lessee itself explore the area	Lessee itself explore the area	5 trial pits was proposed during the year 2017-18.
1d	Balance area to be explored to bring Geological axis in 1 or 2	43.07 Ha.	43.07 Ha.	43.07 Ha area required for detailed exploration
1e	Balance reserves as on 01.04.2018 ( in Tonnes)	(As on 01.04.2017) (111)-7044544 (122)-10,88,441 Total-8132985 MT	(As on 01.04.2018) (111)-6288636 (122)-1088441 Total-7377077 MT	
1f	General remarks of inspecting officer on geology, exploration etc.	Violation under provision of rules 26(2), 33 & 35(2) pointed out on dt. 05.03.2019 for rectification.		

**2.0 Development**

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
2a	Location of development w.r.t. lease area	Mahadeviya & Gandhvi Block	Mahadeviya Block	No deviation
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Top Soil- NIL OB-NIL	Top Soil- NIL OB-NIL	There is no any proposal of Top soil and OB
2c	Stripping ratio or ore to OB ratio	1:0:0	1:0:0	
2d	Quantity of topsoil generation in m3	0	0	
2e	Quantity of overburden generation in m3	0	0	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Violation under provision of rules 26(2), 33 & 35(2) pointed out on dt. 05.03.2019 for rectification.		

**3.0 Exploitation**

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
3a	Number of pits proposed for production	5 Trial Pit was proposed for the year 2017-18 in Gandhvi Block	5 trail Pit in Gandhvi Block	
3b	Quantity of ROM mineral	631150 MT	295964 MT	Lessee has

	production proposed			produced due to lack of demand. No Mineral rejects is generated
3c	Recovery of salable/usable mineral from ROM production	95%	100% (With proper Blending)	
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral reject generation and threshold value declared	NIL	NIL	No Mineral rejects is generated
3f	Quantity of sub-grade mineral generation	NIL	NIL	
3g	Grade of sub-grade mineral generation	NIL	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	NIL	NIL	
3j	Provision of drilling & blasting in mineral benches	Drilling and blasting will be required for 30% of ROM bauxite production only.	<b>2017-18</b> =Quantity of explosive consumed during year are(Small dia. Up to 32 mm) 1. Slurry explosive - 49 Kg. 2. Detonators(Ordinary)-38 nos 3. Safety fuse-57 Mts 4. Detonating Fuse = 825 Mtr. ANFO-1200 Kg	
3k	Provision of mining machineries in mineral benches	Excavator (2M <sup>3</sup> )-2 nos Tipper (25MT)-4nos Wagon drill Machine(100 mm)-1nos Compressor(365cft/m)-1 nos Water tanker-1nos	Excavator (2.00M <sup>3</sup> )-2 nos Tipper (25MT)- 2 nos Rock Drill( Non Elec.-100mm) 1nos Compressor(365CFM)-1 nos Water tanker (6000)-1nos	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bauxite will be mine out by forming one bench 4.5m in Mahadevia block and 2.5 m in Gandhvi block. Width will be kept	Bauxite is mine out by forming one bench 4.5m in Mahadeviya block.	

		as 10m.		
3m	Total area covered under excavation/pits	In 2017-18 proposed area 4.5085 ha. in Mahadeviya block & 33600 m <sup>2</sup> in Gandhvi block	2.9895 ha. Area excavated during the year 2017-18 in both blocks Mahadeviya block.	
3n	Ore to OB ratio for the pit/mine during the year	1: 00	1: 00	
3o	Total area put in use under different heads at the end of year	Pit- 35.63 ha including Mineral Storage-3.2080	Pit- 30.53 ha. including Mineral Storage-3.2080	
3p	Production of ROM mineral during last Plan period, as applicable	(2013-14) 585674 MT (2014-15) Nil (2015-16) 59974 MT (2016-17) 620650 MT 2017-18) 631150 MT	(2013-14)477979 MT (2014-15)Nil (2015-16)459974 MT (2016-17) 4599445 MT (2017-1)295964 MT	
3q	General remarks of inspecting officer on method of mining etc.	Violation under provision of rules 26(2), 33 & 35(2) pointed out on dt. 05.03.2019 for rectification.		

#### **4.0 Solid Waste Management-Dumping**

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No OB/soil generated during the year 2017-18	NIL	
4b	Location of topsoil, OB & mineral reject dumps	No Proposal	No Proposal	No OB/Top soil generated
4c	Number of dumps within lease area and outside lease area	No Proposal	No Proposal	No external dumps
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No Proposal	No Proposal	
4e	Number of active & alive dumps	No Proposal	No Proposal	
4f	Number of dead dumps	No Proposal	No Proposal	
4g	Number of dumps stabilised	No Proposal	No Proposal	
4h	Whether Retaining wall or garland drain all along dumps are there	NIL	Garland drain constructed by Lessee.	
4i	Length of Retaining wall or garland drain all along dump	NIL	Length of garland drain is 412Mx1x1	
4j	Number of settling ponds	No Proposal	No Proposal	
4k	Specific comments of inspecting officer	Violation under provision of rules 26(2), 33 & 35(2) pointed out on dt. 05.03.2019 for rectification.		

### 5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Backfilling of waste material will be done is such area where bauxite mineral has been mine out up to complete thickness & no bauxite mineral is available	Backfilling not carried out as OB not generated in the year 2017-18	
5b	Area under backfilling of mined out area	No Proposal	No Proposal	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No Proposal	No Proposal	wherever top soil generated is used for plantation used
5d	Total area fully reclaimed & rehabilitated	No Proposal	No Proposal	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Violation under provision of rules 26(2), 33 & 35(2) pointed out on dt. 05.03.2019 for rectification.		

### 6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E (2). Details should be given in the format as given in Annexure-20.	-	The PMCP 26(2) of MCDR 2017 report has been send to IBM, Gandhinagar	Not submitted. Violation point out.
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	i) 0.0500 ii) 100 iii) 260 iv) NIL v) NIL	i) 0.0975 ii) 195 sapling iii) 405 iv) Nil v) 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	-	-	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	100 sapling	405 sapling planted on backfilled area.	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Air-01 Water-02 Noise-02	Air-08 Water-02 Noise-02	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Violation under provision of rules 26(2), 33 & 35(2) pointed out on dt. 05.03.2019 for rectification.		

### **7.0 Mineral Conservation**

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	295964.00MT	Dispatch 130829.901 (Cement Grade)	grade-wise sorting by manually
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	
7c	Different grade of mineral sorted out at mines	Manually	Manually	
7d	Any beneficiation process at mines	Only manual sorting and sizing	Only manual sorting and sizing	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Violation under provision of rules 26(2), 33 & 35(2) pointed out on dt. 05.03.2019 for rectification.		

### **8.0 Environment**

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	No Proposal	No top soil generating in this period
8b	Concurrent use or storage of topsoil	No Proposal	No Proposal	Top soil has used whenever its produced

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	In the proposed Mining Plan No soil/OB will be Generated, Waste that is likely to be generated will be in the form of mineral waste, which is below the threshold grade, which has no sale value. Year wise waste generation is Volume of waste(M <sup>3</sup> )-14344	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	7.38 Ha (Water Reservoir)	NIL	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Part of the mineral exhausted pit to be backfilled and remaining part to be converted into water reservoir	Part of the mineral exhausted pit to be backfilled and remaining part to be converted into water reservoir	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	100 saplings	195 Saplings planted by Lessee in the year 2017-18	
8g	Survival rate	60%	75%	proper care and maintenance survival rate increased
8h	Water sprinkling on roads to control airborne dust	Water to be sprinkled on the haul road to suppress the dust being getting airborne	Mobile water tankers have been deployed for the purpose.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Violation under provision of rules 26(2), 33 & 35(2) pointed out on dt. 05.03.2019 for rectification.		

### 9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto –Sep-2018 A.R. submitted upto-2017-18	

S.N.	Item	Details given in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on	Mr. Joshi Jitesh Maganlalas Manager & as	Check & found in order	During the inspection it was



	Mining Engineer, Geologist and Manager	Mining Engineer, Mr. Nayaran Shukla as Geologist		advised to mine representative to submit the AR & MR correctly for cost of production & Ex mine price as per the guidelines in future.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details given	Pit- 31.639 ha. including Mineral Storage-3.2080 Road Infrastructure - 0.981, Plantation – 0.621 ha. Reclaimed-.450hc Waste disposal-0.500hc.	
9d	Scrutiny of Annual return on afforestation	Details given	1.071ha	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Details given	0.0	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details given	Cement grade-295964 tonnes	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Details given	Cement grade limestone Ex-mine price Rs. 397/, Cost per tonne Rs. 377.16	
9i	Scrutiny of Annual return on fixed assets	Details given	Fixed Assets value-Rs. 68185158/	
9k	Scrutiny of Annual return on mining machineries		Excavator (2.00M <sup>3</sup> )-2 nos Tipper (25MT)- 2 nos Rock Drill( Non Elec.- 100mm) 1nos Compressor(365CFM)-1 nos Water tanker (6000)- 1nos	

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

Violation under provision of rules 26(2), 33 & 35(2) pointed out on dt. 05.03.2019 for rectification.

Place Gandhinagarr

Name: Dr N. K. Mathur

Signature

Date 18-03-2019

Designation: AMG