

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

MCDR INSPECTION REPORT

Gandhinagar regional office

Mine file No : GUJ/KUTCH/BXT-10

Mine code : 07GUJ10017

- (i) Name of the Inspecting : **T001**) **K. K. TARDIA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri S G Patel
Official with
Designation
- (iv) Date of Inspection : 07/07/2017
- (v) Prev.inspection date : 30/06/2016

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NAREDI-III**
- (b) **Registration NO.** : **IBM/727/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
- State : GUJARAT
- District : KUTCH
- Village : NAREDI
- Taluka : ABADASA
- Post office : NAREDI
- Pin Code :
- FAX No. : (02834) 282310
- E-mail : garhsisa@gmdcltd.co.in
- Phone : 02834-282289, 282026,28238
- (f) Police Station : BITTA
- (g) First opening date : 01/02/2007
- (h) Weekly day of rest : SUN
2. Address for correspondence : VILL- NAREDI
TALUKA - ABDASA
DISTT- KUTCH
3. (a) Lease Number : GUJ0551
- (b) Lease area : 66.98
- (c) Period of lease : 20
- (d) Date of Expiry : 24/06/2019
4. Mineral worked : BAUXITE Main

5. Name and Address of the

Lessee : GUJARAT MINERAL DEV. CORPN. LTD.
KHANIJ BHAVAN, 132 FEET
RING ROAD, VASTRAPUR
AHMEDABAD AHMEDABAD GUJARAT
Phone:079-7913200, 7913501(D) 7913399
FAX :079-7913038

Owner : GUJARAT MINERAL DEVELOPMENT CORPN. LTD.
AHMEDABAD GUJARAT
AHMEDABAD GUJARAT
Phone: 079-7913200, 79
FAX : 079-7911540

Agent : G.M.DADABHAI
C/O GMDC LTD. PO- KADIPANI,
TALUKA KANAWANT DISTT-
VADODARA VADODARA GUJARAT
Phone: 274221
FAX : 274221

Mining Engineer

Name : PULAK MATHUR,Full Time
Qualification : B.E. (MINING)
Appointment/ :
Termination date

Geologist

Name : A.SELVANAYAGAM,Full Time
Qualification : M.SC.(GEOLOGY) & M.TECH. (GEO-CHEMISTRY)
Appointment/ : 22/06/2011
Termination date

6. Date of approval of Mining :
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	N/A	N/A	
1b	Exploration over lease area for geological axis 1 or 2	N/A	N/A	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	N/A	N/A	
1d	Balance area to be explored to bring Geological axis in 1 or 2	N/A	N/A	
1e	Balance reserve as on 01/04/20	0.28 Million Ton	0.28 Million Ton	
1f	General remarks of inspecting officers on geology, exploration etc		exploration not proposed.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	North-west Direction	North-west Direction	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes	
2c	Stripping ratio or ore to OB ratio	1: 0.19	1: 0.0	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	5580t	nil	

2f General remarks of inspecting officers on development of pit w.r.t. type of deposit etc development of pit is suitable w.r.t. type of deposit

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Pit No-2	Pit No-2	
3b	Quantity of ROM mineral production proposed	40600 t	29295 t	
3c	Recovery of sailable/usable mineral from ROM production	40600	19042	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	N/A	N/A	
3f	Quantity of sub grade mineral generation.	10253	1439	
3g	Grade of sub grade mineral generation	Cement	Cement	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	
3j	Provision of drilling and blasting in mineral benches	YES	YES	

3k	Provision of mining machineries in mineral benches	YES	YES
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3.0	2.5
3m	Total area covered under excavation/pits	12.82Ha	6.59Ha
3n	Ore to OB ratio for the pit/mine during the year.	Nil	Nil
3o	Total area put in use under different heads at the end of year	Pit- 12.82Ha Waste/reject- Nil Others- Nil	6.59Ha 0 0
3p	Production of ROM mineral during the last five year period as applicable	Yr-2012-13- 40000 MT Yr-2013-14- 40000 MT Yr-2014-15- 40000 MT Yr-2015-16- 40000 MT Yr-2016-17- 29295 MT	48265.846 5838.541 19257.988 0.00 40600.00
3q	General remarks of inspecting officers on method of mining etc.		method of mining is suitable for the deposit.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	Yes	
4b	Location of topsoil, OB and mineral reject dumps	NE direction Pit-2	nil	

4c	Number of dumps within lease area and outside of lease area	02 within lease area	02
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NE direction Pit-2	Nil
4e	Number of active and alive dumps.	01	01
4f	Number of dead dumps.	Nil	Nil
4g	Number of dumps established.	N/A	N/A
4h	Whether Retaining wall or garland drain all along dumps are there.	NIL	NIL
4i	Length of Retaining wall or garland drain all along dumps	NA	NA
4j	Number of settling ponds	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management		as per proposal

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	N/A	N/A	
5b	Area under backfilling of mined out area	N/A	N/A	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	N/A	N/A	

5d	Total area fully reclaimed and rehabilitated	N/A	N/A
5e	General remarks of inspecting officers on backfilling and reclamation etc.		no area mature for backfilling.

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	submitted on time.	not submitted.	
6b	Area available for rehabilitation (ha) .	(i) NIL	(i) NIL	
6c	afforestation done (ha).	(ii) 1.0 Ha	(ii) 0.2 Ha	
6d	No. of saplings planted during the year	(iii) 1000	(iii) 500	
6e	Cumulative no .of plants	(iv) 8000	(iv) 23506	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Yes	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		not submitted. violation pointed out.	

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Yes	Yes	

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual
7c	Different grade of mineral sorted out at mines.	Bauxite & Sub grade	(i) PG (Al ₂ O ₃ ?52%) (ii) NPG (Al ₂ O ₃ 40 to <52%) (iii) Rejects size less than 10 mm
7d	Any beneficiation process at mines	No	NA
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		ROM Mineral dispatch or grade-wise sorting within lease area

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes	
8b	Concurrent use or storage of topsoil	N/A	N/A	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Yes	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	N/A	N/A
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1000	800
8g	Survival rate	80%	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 area		aesthetic beauty in and around mines are good.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto -May-2017 A.R. submitted upto- 2016-2017	Its found OK	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Its found OK	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Its found OK	
9d	Scrutiny of Annual return on afforestation	Given	Its found OK	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given	Its	found OK
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	Its	found OK
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Its	found OK
9h	Scrutiny of Annual return on fixed assets	Given	Its	found OK
9k	Scrutiny of Annual return on mining machineries	Given	Its	found OK

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed		Show couse position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date :

(K. K. TARDIA)

Indian Bureau of Mines