

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

**MCDR INSPECTION REPORT**

**Gandhinagar regional office**

**Mine file No :** GUJ/KUTCH/BXT-11

**Mine code :** 07GUJ10016

- (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,GM  
Official with  
Designation
- (iv) Date of Inspection : 08/07/2017
- (v) Prev.inspection date : 12/08/2015

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **BALACHOD BAUXITE MINE**
- (b) **Registration NO.** :
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address  
State : GUJARAT  
District : KUTCH  
Village : NANI BALACHOD  
Taluka : ABADASA  
Post office : NANI BALACHOD  
Pin Code : 370445  
FAX No. : 02832-282310  
E-mail : gadhsisa@gmdcltd.com  
Phone : 02832-282289
- (f) Police Station : MOTHALA
- (g) First opening date : 07/03/2007
- (h) Weekly day of rest : SUN
2. Address for  
correspondance : VILL- BALACHOD  
TALUKA - ABDASA  
DISTT- KUTCH
3. (a) Lease Number : GUJ1732
- (b) Lease area : 280.76
- (c) Period of lease : 30
- (d) Date of Expiry : 08/03/2037
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 : R.L. BHATT  
 C.B. PROJECT-GADHSISA TAL-  
 ABDASA, DIST-KUTCH GUJ.  
 370445 KUTCH GUJARAT  
 Phone:  
 FAX :

## Mining Engineer

Name : D. C. Somai, Full Time  
 Qualification : B.E. (Mining)  
 Appointment/ Termination date : 09/01/2010

## Mining Engineer

Name : N B Patel, Full Time  
 Qualification : B E (Mining)  
 Appointment/ Termination date : 09/01/2010

## Geologist

Name : SA PILLAI, Full Time  
 Qualification : MSC GEOLOGY  
 Appointment/ Termination date : 09/01/2010

## Manager

Name : TD ORNAKAR  
 Qualification : DIPLOMA  
 Appointment/ Termination date : 09/01/2010

6. Date of approval of Mining Plan/Scheme of Mining : Mining Scheme rule 12 MCDR1988 14/02/2013

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	5 BH PBH-13 to PBH-17 Proposed for FY-2015-16 for Block-1  5 BH PBH-36 to 40 proposed for FY-15-16 for Block-2.	Carried out as per proposal	Carried out as per proposal
1b	Exploration over lease area for geological axis 1 or 2	Exploration area covered under 111 is 400 sq. m. for Block-1 and 400 sq.m for Block-2, total 800 sq.m.	Carried out as per proposal	Carried out as per proposal
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Exploration Budget proposed was Rs. 75000/-	Agency -Khanna & Associates and 116 m Exploration cost was Rs.68092/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Balance area to be explored to bring Geological axis in 1 or 1 in accordance with the mining scheme were 800 sq. m.	as per proposal	as per proposal
1e	Balance reserve as on 01/04/20	4.68 Million Ton	4.68 Million Ton	as per proposal
1f	General remarks of inspecting officers on geology, exploration etc		as per proposal	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t. lease area	North West Direction of the area.	North West Direction	as per proposal
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes		as per proposal
2c	Stripping ratio or ore to OB ratio	1:0.45	1:0.4	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	Nil	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		development of pit w.r.t. type of deposit is suitable.	

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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	60692t	36411t	
3c	Recovery of sailable/usable mineral from ROM production	41682t	36411t	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	
3f	Quantity of sub grade mineral generation.	Nil	3652.00	
3g	Grade of sub grade mineral generation	Al2O3 < 30 % Size 10 mm	Al2O3 < 30 % Size 10 mm	

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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.	Lab Analysis	Lab Analysis
3j	Provision of drilling and blasting in mineral benches	Nil	Nil
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	3.0
3m	Total area covered under excavation/pits	53.10Ha	10.91Ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.45	1:0.06
3o	Total area put in use under different heads at the end of year	Pit-55.1 Waste/reject- 0.57	10.91 1.06
3p	Production of ROM mineral during the last five year period as applicable	Yr-2012-13- 00 Yr-2013-14- 38000 Yr-2014-15- 39135 Yr-2015-16- 41038 Yr-2016-17- 41682	39095.152 00 1942.022 00 36411.848
3q	General remarks of inspecting officers on method of mining etc.		method of mining is suitable for deposit.

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	SE Direction of Pit-5	SE Direction of Pit-5	
4c	Number of dumps within lease area and outside of lease area	04	04	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	na	na	
4e	Number of active and alive dumps.	nil	nil	
4f	Number of dead dumps.	nil	nil	
4g	Number of dumps established.	nil	nil	
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	nil	nil	
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.	0.44	nil	

5b	Area under backfilling of mined out area	0.44	nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	na	na
5d	Total area fully reclaimed and rehabilitated	na	na
5e	General remarks of inspecting officers on backfilling and reclamation etc.	na	na

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Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Annual report on PMCP not submitted	violation pointed out .	
6b	Area available for rehabilitation (ha) .	i) 0.44	nil	
6c	afforestation done (ha).	ii) 0.4	ii) 0.3	
6d	No. of saplings planted during the year	iii) 500	iii) 500	
6e	Cumulative no .of plants	iv) 10000 as per EC	iv) 9954	
6f	Any other method of rehabilitation	v) Plantation	v) Plantation	
6g	Cost incurred on watch and care during the year	vi) Nil	vi) Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	yes	done	

6q General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. vialtion pointed out.

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Mineral Conservation:

Sl.No.	Item	Propasals	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.	Yes	Yes	
7d	Any beneficiation process at mines	na	na	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		as per proposal.	

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	As per availability	
8b	Concurrent use or storage of topsoil	NIL	Directly used for the Afforestation	

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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)	NA	NA
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	500	500
8g	Survival rate	70%	65%
8h	Water sprinkling on roads to control airborne dust	01 (water sprinkler)	01 water sprinkler is used and fixed water spraying arrangement also provided near WB area
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		aesthetic beauty in and around mines are good.

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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	GIVEN
9d	Scrutiny of Annual return on afforestation	GIVEN	GIVEN
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

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**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