

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

MCDR INSPECTION REPORT

Gandhinagar regional office

Mine file No : GUJ/KUTCH/BXT-8

Mine code : 07GUJ10008

- (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 : 09/07/2017
- (v) Prev.inspection date : 31/12/2015

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **RATADIA**
- (b) **Registration NO.** :
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
State : GUJARAT
District : KUTCH
Village : NANA RATADIA
Taluka : MANDVI
Post office : NANA RATADIA
Pin Code :
FAX No. : (079) 7913761
E-mail : gmdcltd@adl.vsnl.net.in
Phone : 7913200,7913501
- (f) Police Station : BAYATH
- (g) First opening date : 19/01/1977
- (h) Weekly day of rest : SUN
2. Address for : VILLAGE & POST-RATADIA
correspondance : TALUKA-MANDVI
DISTT-KUTCH
3. (a) Lease Number : GUJ0555
(b) Lease area : 204.07
(c) Period of lease : 20
(d) Date of Expiry : 18/01/2017
4. Mineral worked : BAUXITE Main

5. Name and Address of the

Lessee : GUJARAT MINERALS DEV. CORPN. LTD.
 POST-MEWASA TALUKA-
 KALYANPUR DISTT-JAMNAGAR
 JAMNAGAR GUJARAT
 Phone:
 FAX :

Owner : V S GADHVI, IAS (MANAGING DIRECTOR)
 G.M.D.C. LTD, KHANIJ
 BHAVAN, 132 FEET RING ROAD,
 VASHTRAPUR AHMEDABAD,
 GUJARAT AHMEDABAD GUJARAT
 Phone:
 FAX :

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

Manager
 Name : V.K.SUMERA
 Qualification : M.Sc. (Geology)
 Appointment/ : 07/09/2010
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	09/09/2003
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	15/02/2013

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	7 BH PBH-20 to PBH-26 Proposed for FY-2015-16	All Proposed BH done. In Feb-2016	BH completed as per Mining Scheme in the year 15-16
1b	Exploration over lease area for geological axis 1 or 2	13 BH PBH-27 to PBH-39 Proposed for FY 2016-17	All Proposed BH done in Feb-2016	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Yes	Exploration Done By Khanna & Associates. 165 m Exploraiton done which cost Rs.96855/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20	6.78 Million Ton	6.78 Million Ton	
1f	General remarks of inspecting officers on geology, exploration etc		As per proposal	

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	1:0.14	1:0.18	
2d	Quantity of topsoil generation in m3	yes	826	
2e	Quantity of overburden generation in m3	14048	19240	

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	5	3	
3b	Quantity of ROM mineral production proposed	98335 MT	73523.86 MT	
3d	Quantity of mineral reject generation	0	0	
3e	Grade of mineral rejects generation and threshold value declared.	na	na	
3f	Quantity of sub grade mineral generation.	14750	13827	
3g	Grade of sub grade mineral generation	15%	18%	
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 and Size	Lab. Analysis and Size	
3j	Provision of drilling and blasting in mineral benches	Yes	Yes	
3k	Provision of mining machineries in mineral benches	03	02	

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	2.5	2.5
3m	Total area covered under excavation/pits	22.244	20.4
3n	Ore to OB ratio for the pit/mine during the year.	1:0.14	1:0.26
3o	Total area put in use under different heads at the end of year	Pit-22.44 Waste/reject- 2.24	20.11 2.10
3p	Production of ROM mineral during the last five year period as applicable	Yr-2012-13-1.0 LacMT Yr-2013-14- 92190Mt Yr-2014-15- 93847MT Yr-2015-16- 90622MT Yr-2016-17- 98335Mt	108566.953 38856.000 44294.817 00 73523.860
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)	Top Soil and OB	Done	
4b	Location of topsoil, OB and mineral reject dumps	Top soil South of Mines Manager Office	Done	
4c	Number of dumps within lease area and outside of lease area	Four Within lease	in As per proposal	As per proposal

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	proposed	As per proposal
4e	Number of active and alive dumps.	04	04
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.	Yes	Done
4i	Length of Retaining wall or garland drain all along dumps	424m	311m
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.	Partly	Back filling started at Pit-3	
5b	Area under backfilling of mined out area	0.1344 Ha	0.32 Ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Yes	Partially done	
5d	Total area fully reclaimed and rehabilitated	No	No	

5e General remarks of inspecting officers on backfilling and reclamation etc. As per proposal

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 has been pointed out.	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	4.0 Ha	3.0 Ha	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	High Grade & Low grade	(i) PG (Al2O3?52%) (ii) NPG (Al2O3 40 to <52%) (iii) Rejects size less than 10 mm	
7d	Any beneficiation process at mines .	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		As per proposal	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Yes		For Plantation
8b	Concurrent use or storage of topsoil	Yes		For Plantation
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)	Yes		Yes
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Yes		Yes
8g	Survival rate	80%		70%
8h	Water sprinkling on roads to control airborne dust	01		01water 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.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to - May 2017 A.R. submitted up to - 2016-2017	M.R. Submitted up to - May 2017 A.R. submitted up to - 2016-2017	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	ok	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	ok	
9d	Scrutiny of Annual return on afforestation	Given	ok	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given	ok	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	ok	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	ok	
9h	Scrutiny of Annual return on fixed assets	Given	ok	
9k	Scrutiny of Annual return on mining machineries	Given	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