

## INSPECTION REPORT

## 1.0 GENERAL

SN	Particulars	Details
1	Name of the Mine	Mewasa-I Bxt Mines
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	ML Area: 186.96 ha Survey Nos.: 437 & 396
3	Mine code	07GUJ07031
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/727/2011
5	Name of the lessee, Address, phone, email and fax number	M/s Gujarat Mineral Development Corp. Ltd. (A Govt. of Gujarat Undertaking) Corporate Office: Khanij Bhavan, 132 Ft. Ring Road, Nr. University Ground, Vastrapur Ahmedabad- 380 052 079 2791 3200, 2791 3501 Fax-079 2791 3038, 2791 1454 geo@gmdcltd.com
6	Village	Mevasa
7	Taluka/Mandal	Kalyanpur
8	District	Dev Bhumi Dwarka
9	Pin code	361315
10	State	Gujarat
11	Post office	Mevasa
12	Nearest police station	Kalyanpur
13	Nearest Railway station	Bhatia
14	Date of Grant of Mining Lease	01.12.1969
15	Date of Execution	01.12.1969 (Valid up to 31.03.2020 i.e. 50 years)
16	Date of opening of Mine	1969
17	Date of first Renewal, if applicable and its period & expiry	26.8.1991
18	Date of second Renewal, if applicable and its period & expiry	20.12.2008
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 number and date of appointment	<b>Nominated Owner:</b> Mr. Arun Kumar Solanki, Managing Director Office Address: Khanij Bhavan, 132 Ft. Ring Road, Nr. University Ground, Vastrapur Ahmedabad- 380 052 E-mail: m_d@gmdcltd.com
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. N.B.Patel, BE (Mining Engg.), FCC M/s Gujarat Mineral Development Corp. Ltd. (A Govt. of Gujarat Undertaking) Date of Appointment – 22.9.2016
22	Name of the Mines Manager with Address phone, email, fax number and date of appointment in mines	Mr. N.B.Patel, BE (Mining Engg.), FCC M/s Gujarat Mineral Development Corp. Ltd. (A Govt. of Gujarat Undertaking) Date of Appointment – 22.9.2016
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. N.B.Patel, BE (Mining Engg.), FCC M/s Gujarat Mineral Development Corp. Ltd. (A Govt. of Gujarat Undertaking) Date of Appointment – 22.9.2016
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes Appointed, Mr. N.B.Patel, BE (Mining Engg.) & Shri S.N.Patil, Geologist
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining plan was approved in the year 2002 & subsequent scheme of mining was approved vide letter no 682(23)/701/2009 UDP/ Dated-24.3.2010, Period from 2010-11 to 2014-15.
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Mining plan was approved in the year 2002 & subsequent scheme of mining was approved vide letter no 682(23)/701/2009 UDP/ Dated-24.3.2010, Period from 2010-11 to 2014-15.
27	Mineral(s) granted in lease and proved for mining	Bauxite
28	Method of Mining (Opencast,	Opencast Mining

29	Underground) Category (Fully Mechanised, Others or Manual)	Mechanised mine
30	Captive/Non Captive	Non-Captive

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

**Exploration**

SN	Item	Proposals (2014-15)	Actual work	Remarks
1a	Backlog of previous year.	It was proposed to explore 50 no. of pits of 5m*5m*5m each during five year of approved mining plan.	Total 52 no. of boreholes were carried out in total 528.5m in 2010-11.	No approved SOM for 2015-16, 16-17.
1b	Exploration over lease area for Geological axis 1 or 2.	Entire lease area is not fully explored.		
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NA		
1d	Balance area to be explored to bring Geological axis in 1 or 2	The remaining lease area proposed for exploration in subsequent scheme period.		
1e	Balance reserves (Million Tonnes) as on 01.04.2017	UNFC (in million tonne)-111 – 0.953, 121&122 – 0.082 221/222 – 0.027+0.018, 332/333 – 0.89		
1f	General remarks of inspecting officer on geology, exploration etc.	NIL		

**2.0 Development**

SN	Item	Proposals(2016-17)	Actual work	Remarks
2a	Location of development w.r.t. lease area	It was proposed to work in eight pits in scheme period up to 2014-15 i.e. 1,3,4,6,7,8,9/A,9/B. No proposal for 15-16, 16-17.	Done as proposed till 2014-15. No approved SOM for 2015-16, 16-17.	Violation pointed out under provision of rule 11(1) of MCDR,2017.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	1.5m bench height, separately proposed	1.5m & more in few places.	
2c	Stripping ratio or ore to OB ratio	Not Proposed	NIL	
2d	Quantity of topsoil generation in m <sup>3</sup>	Not Proposed	NIL	
2e	Quantity of overburden generation in m <sup>3</sup>	Not Proposed	NIL	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	NIL		

**3.0 Exploitation**

SN	Item	Proposals (2016-17)	Actual work	Remarks
3a	Number of pits proposed for production.	It was proposed to work in eight pits in SOM up to 2014-15 i.e. 1, 3, 4,6,7,8, 9/A,9/B. No proposal for 15-16, 16-17.	eight pits in scheme period up to 2014-15 i.e. 1,3,4,6,7,8,9/A, 9/B.	
3b	Quantity of ROM mineral production proposed	--do----	128862.17T	
3c	Recovery of salable/usable mineral from ROM production	100% utilization, although 10% of size rejection is stacked separately but not showing in periodical returns. Advised to mine MM & representative to put rejects quantity in returns.		
3d	Quantity of mineral reject generation	106599T(2015-16) & 94305.58(2016-17)		
3e	Grade of mineral reject generation and threshold value declared	Above threshold value & below cut off grade as per IBM guidelines.		
3f	Quantity of sub-grade mineral generation	NA		
3g	Grade of sub-grade mineral generation	NA		

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised		
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not applicable		
3j	Provision of drilling & blasting in mineral benches	No proposal		
3k	Provision of mining machineries in mineral benches	No proposal		
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No proposal		
3m	Total area covered under excavation/pits	---	About 27Ha.	
3n	Ore to OB ratio for the pit/mine during the year	Not Proposed	Nil	
3o	Total area put in use under different heads at the end of year	Not Proposed	Pit-27 ha., Mineral storage-9.35Ha, Road-2.1Ha, Waste/reject - 0.8Ha, infra- 1.6	
3p	Production of ROM mineral during last five-year period, as applicable	Yr-2017-18 - 125000 Yr-2015-16 & 16-17-NA Yr-2014-15 - 125000 Yr-2013-14 - 125000 Yr-2012-13 - 125000	Yr-2017-18 25517.17(July,17) Yr-2016-17 - 111096.63 Yr-2015-16 - 128862.17 Yr-2014-15 - NIL Yr-2013-14 - NIL	All quantity in Tonnes
3q	General remarks of inspecting officer on method of mining etc.	Violation pointed out under provision of rule 11(1),45(5)(b)& 45(5)(c),26(2),33 of MCDR,2017for rectification etc.		

**4.0 Solid Waste Management-Dumping**

SN	Item	Proposals (2016-17)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No proposal,		
4b	Location of topsoil, OB & mineral reject dumps	Not proposed,	Mineral rejects stacked with in lease area as earmarked in plan.	
4c	Number of dumps within lease area and outside lease area	Not Proposed	NIL	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No Proposal	NA	
4e	Number of active & alive dumps	NA	NA	
4f	Number of dead dumps	NA	NA	
4g	Number of dumps stabilised	NA	NA	
4h	Whether Retaining wall or garland drain all along dumps are there	Fencing surrounding lease area & afforestation/plantation done with in 7.5 of statutory barrier maintained		
4i	Length of Retaining wall or garland drain all along dump	NIL		
4j	Number of settling ponds	NA		
4k	Specific comments of inspecting officer	NIL		

**5.0 Solid Waste Management-Backfilling**

SN	Item	Proposals (2016-17)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposal		
5b	Area under backfilling of mined out area	No proposal	0.4Ha	Plantation done during 2016-17 (1000Nos./1 Ha)
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal		

5d	Total area fully reclaimed & rehabilitated	No proposal		
5e	General remarks of inspecting officer on backfilling, reclamation etc			

### 6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2016-17)	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2).	Violation pointed out under provision of rule 26(2) of MCDR, 2017 for rectification to party.		
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	Environmental Protection /afforestation- Plantation list attached as annexure 1 i) 0.4Ha ii) 1.0Ha iii) 1000 No.		
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	Environmental Protection /afforestation- Plantation list attached as annexure 1 i) 0.4Ha		
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	No waste land available in the ML. Afforestation done only reclaimed area		
6e	Compliance of Environmental monitoring, (core zone & buffer zone)	Fortnightly monitoring done in core zone and quarterly monitoring done in buffer zone. Environmental parameters are within permissible limit.		
6f	General remarks of inspecting officer on PMCP compliance & progressive	NIL		

### 7.0 Mineral Conservation

SN	Item	Proposals (2016-17)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	106599T(2015-16) & 94305.58(2016-17) of mineral rejects generated & utilised as per buyers requirement.		
7b	Method of grade-wise mineral sorting i.e. manual or mechanical			
7c	Different grade of mineral sorted out at mines			
7d	Any beneficiation process at mines			
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No waste generation, so no need of segregation or beneficiation of mineral. Entire ROM is utilising by proper sizing & sorting of mineral with grade wise separation as per buyers requirement.		

### 8.0 Environment

SN	Item	Proposals (2016-17)	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	The generated top soil is being utilised for plantation.		
8b	Concurrent use or storage of topsoil	Yes		
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NA		

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	1000Nos/1Ha area About 80%
8g	Survival rate	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling carried out on the haul road.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	NIL

#### 9.0 Compliance of Rule 45

S.N	Item	COMMENTS	Remarks
	Status of submission of Online Monthly and Annual returns	M.R. Submitted up to till date – Before 10 <sup>th</sup> of every month A.R. submitted up to till date- 29.06.2017	

S.N	Item	Details GIVEN in A.R. (2016-17)	Observation of I/Officer /Actual reported in Returns	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer & Geologist has been appointed under provision of MCDR, 2017 rules.		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	<i>The lessee/ party has not been submitted the online monthly &amp; annual return for the year 2011-12 onward to till date &amp; accordingly violations under provision of rules 45(5)(b) &amp; 45(5)(c) pointed out to lessee for rectification on 05.9.2017.</i>	Not applicable	
9d	Scrutiny of Annual return on afforestation		--do--	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)		--do--	
9f	Scrutiny of Annual return on ROM stock and/or graded ore		--do--	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost		--do--	
9i	Scrutiny of Annual return on fixed assets		--do--	
9k	Scrutiny of Annual return on mining machineries		--do--	

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out: - In present inspection, Violation of provision of rules 11(1), 45(5)(b) & 45(5)(c), 26(2) & 33 observed & pointed out to lessee for compliance & rectification.