

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/JPR-115/LST-3

Mine code : 38RAJ13008

- (i) Name of the Inspecting : **G021**) **D R GURJAR**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sh. M.L. Lahoti, Agent (Mines)
Official with
Designation
- (iv) Date of Inspection : 14-SEP-17
- (v) Prev.inspection date : 16-MAY-17

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **GRASIM CEMENT LIMESTONE M**
- (b) **Registration NO.** : **IBM/441/2011**
- (c) **Category** : **A Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **RAJASTHAN**
- District : **JAIPUR**
- Village : **MOHANPURA--JODHPURA**
- Taluka : **KOTPUTLI**
- Post office : **JODHPURA**
- Pin Code : **303108**
- FAX No. : **01421- 2512451**
- E-mail : **manoharlal.lahoti@adityabi**
- Phone : **01421- 2512451, 2516237**
- (f) **Police Station** : **KOTPUTLI**
- (g) **First opening date** : **26-JAN-50**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **Unit of Ultratech Cement, Kotputli**
Vill. - Mohanpura, Teh. - Kotputli
Dist.- Jaipur- 303108
3. (a) **Lease Number** : **RAJ1484**
- (b) **Lease area** : **548.78**
- (c) **Period of lease** : **50**
- (d) **Date of Expiry** : **09-APR-57**
4. **Mineral worked** : **LIMESTONE** **Main**

5. Name and Address of the

Lessee : M/S Grasim Industries Ltd.
 Unit Grasim Cement, Kotpuli
 Vill.- Mohanpura, Teh.-
 Kotputli Dist.- Jaipur
 JAIPUR RAJASTHAN
 Phone:
 FAX :

Owner : K.K.Maheshwari
 Ahura Centre, B Wing, 2nd
 Floor Mahakali Cave Road
 Andheri(E), Mumbai-400094
 JAIPUR RAJASTHAN
 Phone:
 FAX :

Agent : Manohar Lal Lahoti
 Grasim Cement Limestone
 Mine M/s Ultra Tech Cement
 Ltd. Kotputli, Jaipur
 JAIPUR RAJASTHAN
 Phone: 01421-2512451, 2516237
 FAX : 01421-2512451

6. Date of approval of Mining Plan/Scheme of Mining	:	Renewal under rule 22 MCR1960	29-SEP-03
		Modif.of approved Mining Plan	03-OCT-08
		Mining Scheme rule 12 MCDR1988	11-MAY-09
		Modif.approved Mining Scheme	26-JUL-13
		Mining Scheme rule 12 MCDR1988	03-NOV-14

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	Area is explored upto certain depth.
1b	Exploration over lease area for geological axis 1 or 2	No proposal in this regard	548.78 Hect.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20	Balance reserves as on 01.04.2017 159.59 mt	Balance reserves as on 01.04.2017 159.59 mt	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	S 0.5 - N 0.5 / E 3.5 - W 2.5	S 0.5 - N 0.5 / E 2.9 - W 2.5 S 4.6 - S 1.5 / W 2 - W 3.5 S 5 - S 1.5 / W 2 - W 3.6	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes, as per proposal	
2c	Stripping ratio or ore to OB ratio	1:0.11	1:0.09	
2d	Quantity of topsoil generation in m3	NIL	NIL	
2e	Quantity of overburden generation in m3	537613 Cum (OB Soil: 148046 cum + Waste: 389567 cum)	480583 Cum (OB Soil: 147854 cum + Waste: 332728 cum)	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Mine development is going as per proposal.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	4500374 MT	4461925 MT	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Nil	
3f	Quantity of sub grade mineral generation.	No subgrade mineral generation proposal	Nil	
3g	Grade of sub grade mineral generation	No subgrade mineral generation proposal	Nil	Whole ROM is being used.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil	
3j	Provision of drilling and blasting in mineral benches	Yes	Yes as per proposal	

3k	Provision of mining machineries in mineral benches	Yes	Yes as per proposal	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes as per proposal	
3m	Total area covered under excavation/pits	48.0 hect	46.0 hect	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.11	1: 0.09	
3o	Total area put in use under different heads at the end of year	Yearly no specified	Open Pit-46.0 Hect, Waste Dump-14.0 Hect	
3p	Production of ROM mineral during the last five year period as applicable	2012-13 = 4500328 MT 2013-14 = 4590560 MT 2014-15 = 4502998 MT 2015-16 = 4505070 MT 2016-17 =4500374 MT	2012-13 = 4214775 MT 2013-14 = 4384917 MT 2014-15 = 4188402 MT 2015-16 = 4239717 MT 2016-17 =4461925 MT	Exploitation of mineral has been carried out as per approved proposal.
3q	General remarks of inspecting officers on method of mining etc.	Opencast fully mechanised mining method	Opencast fully mechanised mining method	Exploitation of mineral has been carried out as per approved proposal.

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	SD-1 - S 7.8- S 5.6 / W 3-W 5.5 SD-2 - N 3- N 4.5 / W 1.5- W 4 WD-1 - S1.8 - N 0.4 / W 2.5-W4.4 WD-2 - S0.5-N 3.5 / W 2.5- W 4.5	SD-1 - S 7.8- S 5.6 / W 3-W 5.5 SD-2 - N 3.3- N 4.5 / W 2.4- W 4 WD-1 - S1.8 - N 0.4 / W 2.5-W4.4 WD-2 - N1.2-N 3.3 / W 2.5- W 4.5
4c	Number of dumps within lease area and outside of lease area	All dumps are within ML	All dumps are within ML
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Partly inside/outside of UPL	Partly inside/outside of UPL
4e	Number of active and alive dumps.	02 OB Dump 01 Soil Dump	02 OB Dump 01 Soil Dump
4f	Number of dead dumps.	Not proposed	NA
4g	Number of dumps established.	01 soil dump 01 waste dump	01 soil dump 01 waste dump
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes
4i	Length of Retaining wall or garland drain all along dumps	200m	200m
4j	Number of settling ponds	2	2

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.	No proposal in the approved SOM	Not applicable	

5b	Area under backfilling of mined out area	No proposal	NA
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Yes	For plantation
5d	Total area fully reclaimed and rehabilitated	No proposal	No mined out area is available for reclamation & rehabilitation.

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).	Yes	Submitted.	
6b	Area available for rehabilitation (ha) .	No proposal	Benches are active .No mined out area is available.	
6c	afforestation done (ha).	0.5 Hect area plantation during the last year 2016-17.	0.5 Hect plantation plantaion carried out during the year 2016-17.	As per proposal
6d	No. of saplings planted during the year	2000 sapling	8031 sapling	Sapling are planted more than the proposal.
6e	Cumulative no .of plants	Not specified	58749 plants	
6f	Any other method of rehabilitation	Plantation	Plantation	
6g	Cost incurred on watch and care during the year	Not specified	However lessee has reported that Rs .20 Lakh has been spent.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	No mined out area is available for backfilling.	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed	No mined out area is available for backfilling.	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No proposal	No mined out area is available for backfilling.	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	No mined out area is available for backfilling.	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not proposed	No mined out area is available for backfilling.	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	0.5 Hect	0.5 Hect	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	0.5 Hect plantation proposed	0.5 Hect plantation carried out.	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Plantation	Plantation	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Yes	As per proposal

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	No gradewise sorting proposed.	No grade wise sorting as whole ROM feed to crusher.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not proposed	100% ROM is utilised.	
7c	Different grade of mineral sorted out at mines.	Not proposed	100% ROM is utilised.	
7d	Any beneficiation process at mines	Crushing is proposed	Only crushing is needed.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Whole ROM is being used.To meet the desired grade low grade is being mixed with high grade.

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes as per proposal.	
8b	Concurrent use or storage of topsoil	Used for plantation.	Used for plantation.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Separate dump for OB soil and waste rock have been created.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Use as aggregate in own RMC.	Use as aggregate in own RMC.	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	No mined out area is available for reclamation & rehabilitation.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Yes	Yes
8g	Survival rate	90% proposed	90%
8h	Water sprinkling on roads to control airborne dust	Proposed	2 Water tanker deployed
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		No threat to aesthetic beauty except land degradation. Plantation is being carried out as per proposals. Lessee is taking care of environment protection.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes submitted	M.R Submitted upto August, 2017 A.R. Submitted for 2016-17	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Manager - Mr. Bangaru Babu Ryali Mining Engineer - Mr. G. C. Dhayal Geologist - Mr. Navneet Agrawal	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Covered under current (O/C) Workings- 46.0 hect Used for waste disposal - 14.0 hect	

9d	Scrutiny of Annual return on afforestation	Given	Afforestation done over 44.5 hect with 66780 trees
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given	Mineral Reject generation- Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	Closing Stock - 635570 MT
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Ex. Mine price Rs. 214.61
9h	Scrutiny of Annual return on fixed assets	Given	Value of Fixed Assets (in Rs.) 14280612529
9k	Scrutiny of Annual return on mining machineries	Given	4nos Excavator (6.5 M3) , 10 Dumpers (55T), 3 Drills (4" dia), 1 Dozer, 2 Rock Breaker, etc.

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

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

Date :

(D R GURJAR)

Indian Bureau of Mines