

**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 : **DJ03**) **DILIP JAIN**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Sri Rahul Gopalia, Mine Manger and Sri P.S. Mishra, G
Official with
Designation
- (iv) Date of Inspection : 04-OCT-19
- (v) Prev.inspection date : 08-AUG-18

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 : Unit of Ultratech Cement, Kotputli
correspondance 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

Mining Engineer

Name : Sri Rahul Gopalia, Full Time
 Qualification : BE (Mining)
 Appointment/ : 04-OCT-19
 Termination date

Geologist

Name : Parth sarthi Mishra, Full Time
 Qualification : M Sc (Geology)
 Appointment/ : 07-OCT-17
 Termination date

Manager

Name : Rahul Gopaliya
 Qualification : B E (Mining)
 Appointment/ : 22-FEB-18
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	29-SEP-03
Plan/Scheme of Mining		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
		MP review under 17(1) MCR 2016	13-DEC-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Proposal of exploration in previous year.	No exploratory work in previous year.	NIL.
1b	Exploration over lease area for geological axis 1 or 2	No exploration proposal for reporting year.	No exploratory work has been carried out in reporting year.	NIL.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Applicable as no proposal of exploration.	Not Applicable.	NIL.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal for reporting year.	As per approved document dated 13/12/1018, entire potentially mineralised area explored under G1/G2 level of exploration.	NIL.
1e	Balance reserve as on 01/04/20	As per approved document dated 13/12/2018, the position of reserve and resource as on 01/04/2018 was 180.07 million tonnes respectively.	As on 01/04/2019, the position of reserve and resources are 175.99 and 23.94 million tonnes respectively.	NIL.
1f	General remarks of inspecting officers on geology, exploration etc	No proposal of exploration during reporting year.	No exploratory work has been carried out during reporting year.	As per approved document entire potentially mineralised area explored under G1/G2 level of exploration.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	E700 to W500 N300 to S700	E600 to W400 N100 to S700	NIL.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate removal of soil, OB/intercalated waste and mineral has been envisaged.	Separate benches have been maintained in soil, OB and Mineral.	NIL.
2c	Stripping ratio or ore to OB ratio	1:0.11 CuM/Tonnes	1:0.32 CuM/Tonnes.	Violation for variation in SR has been issued vide letter dated 18/10/2019.
2d	Quantity of topsoil generation in m3	It is proposed that top soil encountered shall be used for plantation purposes. As per approved document sub soil capping over limestone has been proposed to remove about 372831 CuM.	Top soil generated has been stacked separately and consumed for plantation work. A quantity of 702600 Cum of sub soil has been generated during the reporting year.	The nature of the sub soil is sandy/clayey and it has been considered as a part of the waste. Violation for more waste generation issued vide letter dated 18/10/2019.
2e	Quantity of overburden generation in m3	483791 CuM	1313621 Cum	Violation for more waste generation issued vide letter dated 18/10/2019.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Considering the near surface deposit open pit development has been proposed.	Development has been carried out through open pit.	One pit has been developed for the production of mineral.

Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	One pit has been proposed.	One pit has been developed.	NIL.
3b	Quantity of ROM mineral production proposed	4505728 MT	4072587 MT	NIL.
3c	Recovery of sailable/usable mineral from ROM production	4505728 MT	4072587 MT	NIL.

3d	Quantity of mineral reject generation	No proposal of Mineral Reject generation as entire ROM is useable.	No mineral reject has been generated during mineral excavation.	NIL.
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable as no proposal of MR generation.	Not applicable .	
3f	Quantity of sub grade mineral generation.	No proposal of Sub-grade generation as entire ROM is useable.	No Sub-grade has been generated during mineral excavation.	NIL.
3g	Grade of sub grade mineral generation	Not applicable as no proposal of Sub-grade generation.	Not applicable.	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized Method i.e. crushing and screening has been proposed to process ROM.	Mechanized Method has been adopted to process ROM as per proposal.	NIL.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal of analysis or beneficiation study.	Not applicable as no proposal.	NIL.
3j	Provision of drilling and blasting in mineral benches	Blast hole of 115 mm dia in staggered pattern along with ANFO & Booster has been proposed	Drilling and blasting is being carried out as per proposal.	NIL.
3k	Provision of mining machineries in mineral benches	Hydraulic excavator, dumper, explosive van, drilling machine etc.	As per proposal.	NIL.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of the benches have been proposed to 10 mts.	It appears that height of the benches propose is suitable and maintained as per proposal.	NIL.

3m	Total area covered under excavation/pits	As per approved document dated 03/10/2018, total area proposed to under excavation at the end of the plan period is 61.12 Ha.	Area degraded under excavation as on 01/04/2019 is 51.785 ha.	NIL.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.11 CuM/Tonnes	1:0.32 CuM/Tonnes.	Violation for variation in SR has been issued vide letter dated 18/10/2019.
3o	Total area put in use under different heads at the end of year	As per approved document dated 03/10/2018, total area put under different heads at the end of the plan period i.e. 18-19 is 144.29 Ha.	As on 01.04.2019 area put under different heads was 144.04 Ha.	NIL.
3p	Production of ROM mineral during the last five year period as applicable	2014-15: 4502998 MT 2015-16: 4505070 MT 2016-17: 4500374 MT 2017-18: 4505634 MT 2018-19: 4505728 MT	2014-15: 4188402 MT 2015-16: 4239717 MT 2016-17: 4461925 MT 2017-18: 4501639 MT 2018-19: 4072587 MT	NIL.
3q	General remarks of inspecting officers on method of mining etc.	Opencast Method of Mining has been proposed.	Mechanized mining with use of heavy machinery are being carried out. Method of mining is as per the proposal.	No issue with method of mining.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal Mineral reject generation. Proposal of separate dumping of waste has been envisaged. It is proposed that top soil encountered shall be used for plantation purposes.	Mineral Reject has not been generated. Waste generated during the year has been dumped separately. Top soil generated has been stacked separately and consumed for plantation work.	NIL.
4b	Location of topsoil, OB and mineral reject dumps	Dumping of the waste has been proposed over four locations at the end of the plan period. Location has been proposed Northern and Western site of the pit area.	Dumping of the waste has been carried out five locations (two Clay/sub soil dumps and three waste rock dumps) in northern and western side of the pit area.	Violation of same has been rectified through approval of RMP dated 13/12/2018 for the period 2019-20 to 2023-24.
4c	Number of dumps within lease area and outside of lease area	All four dumps are proposed within ML area.	All existing dumps are observed within ML area.	NIL.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed outside of UPL.	Found outside of UPL.	NIL.
4e	Number of active and alive dumps.	Four dumps has been proposed to be active.	All existing five dumps are active (two Clay/sub soil dumps and three waste rock dumps).	NIL.
4f	Number of dead dumps.	No proposal.	Not applicable.	NIL.
4g	Number of dumps established.	No proposal of full established/re habilitation of any waste dump.	Not applicable as no proposal.	Plantation has been done on part of one dump (matured side).
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal of construction of retaining wall and garland drain during 2018-19.	Retaining wall has not been observed along the tow of waste rock dump-04.	Violation of MCDR, 2017 has been issued vide letter dated 18/10/2019.

4i	Length of Retaining wall or garland drain all along dumps	No proposal of construction of retaining wall and garland drain during 2018-19.	Retaining wall has not been observed along the tow of waste rock dump-04.	Violation of MCDR, 2017 has been issued vide letter dated 18/10/2019.
4j	Number of settling ponds	No proposal of construction of settling pond.	NIL.	NIL.
4k	Specific comments of inspecting officer on waste dump management	OB dumping has been proposed within the lease area.	Ob dumping has been observed within the lease area.	Violation of MCDR for Retaining wall issued vide letter dated 18/10/2019.

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 of full or part extraction of mineral from mine out area.	Backfilling has not been observed.	NIL.
5b	Area under backfilling of mined out area	No Proposal of backfilling.	No backfilling.	NIL.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	It is proposed that top soil shall be used for plantation purposes.	870 tonnes of top soil has been generated from the proposed area of development and utilized for plantation purpose.	NIL.
5d	Total area fully reclaimed and rehabilitated	No proposal of fully reclamation and rehabilitation of mine out area.	Not applicable as no proposal.	NIL.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No proposal of backfilling.	No comment to offer as no proposal of backfilling.	NIL.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	As per rule 26 of MCDR, 2017 holder of mining lease shall submit PMCP before 1st day of July every year.	PMCP report for the year 2018-19 has been submitted.	NIL.
6b	Area available for rehabilitation (ha) .	No proposal as entire pit area was proposed to active. However, 0.5 Ha barren land has been proposed to rehabilitated/ afforested.	Plantation has been carried out in 3.0 Ha areas along with gap filling plantation.	NIL.
6c	afforestation done (ha).	An area of 0.5 Ha barren land has been proposed to rehabilitated/ afforested.	Plantation has been carried out in 3.0 Ha areas along with gap filling plantation.	NIL.
6d	No. of saplings planted during the year	2000 number of saplings.	10000 number of saplings has been planted.	NIL.
6e	Cumulative no .of plants	Not specified.	During the year 2018-19, total of 10000 number of saplings have been planted.	NIL.
6f	Any other method of rehabilitation	Other than plantation, no specific proposal of any other method of rehabilitation .	Only plantation work has been carried out.	NIL.
6g	Cost incurred on watch and care during the year	A total of Rs. 544200 has been proposed towards plantation including watch and care.	A total of Rs. 4836554 has been proposed spend towards plantation work.	NIL.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal of backfilling.	No work related to backfilling has been carried out during the year.	NIL.

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal of backfilling.	No work related to backfilling has been carried out during the year.	NIL.
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No proposal of backfilling.	Not applicable as no proposal of backfilling.	NIL.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal making reservoir.	Not applicable as no proposal of making reservoir.	NIL.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No any other specific proposal.	Not applicable as no proposal.	NIL.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	It was plan to plant 2000 numbers of saplings.	During the year 2018-19, total of 10000 number of saplings have been planted.	NIL.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	An area of 0.50 Ha has been proposed	Plantation has been carried out in 3.0 Ha areas along with gap filling plantation.	NIL.
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Plantation.	Plantation.	NIL.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Provision of environment monitoring stations has been given.	Environment monitoring parameters are found to be within permissible limit.	NIL.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	An area of 0.50 Ha has been proposed to plant with 2000 numbers of saplings.	An area of 3.0 Ha has been planted with 10000 number of saplings.	No issue related to PMCP compliance.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No specific grade wise sorting has been proposed. Entire ROM has been proposed to crush and screen.	Crushing and screening of ROM has been observed.	NIL.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Crushing and screening by mechanical means.	Crushing and screening by mechanical means.	NIL.
7c	Different grade of mineral sorted out at mines.	No proposal of grade wise sorting.	Not applicable as no proposal.	NIL.
7d	Any beneficiation process at mines .	No proposal of any beneficiation process.	Not applicable as no proposal.	NIL.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Entire ROM is proposed to use in cement plant after crushing and screening.	Beneficiation of ROM is not required as ROM is directly usable in cement plant after crushing and screening.	No issues regarding mineral conservation.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	It is proposed that top soil encountered shall be used for plantation purposes.	870 tonnes of top soil has been generated from the proposed area of development and utilized for plantation purpose.	NIL.

8b	Concurrent use or storage of topsoil	Use in plantation.	Used for plantation purpose.	NIL.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of waste has been proposed. No proposal of generation of rejects and fines during 2018-19.	Waste has been dumped at its designated places (as per approved document dated 13/12/2018).	NIL.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal of use of overburden/ waste rock for restoring the land to its original use.	Not applicable as no proposal.	NIL.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal of rehabilitation of land affected due to mining.	Not applicable as no proposal.	NIL.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	An area of 0.50 Ha has been proposed to plant with 2000 numbers of saplings.	An area of 3.0 Ha has been planted with 10000 number of saplings.	NIL.
8g	Survival rate	No specific proposal of survival rate.	98.70%	As per AR 2018-19.
8h	Water sprinkling on roads to control airborne dust	To control the air born dust particle, water sprinkling has been proposed.	Water sprinkling has been observed during the mine inspection.	NIL.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	It is propose to plant 2000 number of sapling over an area of 0.50 Ha.	An area of 3.0 Ha has been planted with 10000 number of saplings. Aesthetic beauty around the mine is maintained.	NIL.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	As per rule 45 of MCDR, 2017, holder of mining lease should submit Monthly and Annual return in prescribed format.	Monthly and Annual return of the year 2018-19 has been submitted by the lessee.	Scrutiny of annual return 2018-19.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information of Mining Engineer, Geologist and Manager has been furnished.	Mining Engineer, Geologist and Mine Manager as per MCDR, 2017 has been appointed at the mine.	NIL.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O/C) Workings- 51.785 Ha, Used for waste disposal-20.68 Ha, Occupied by plant, building, workshop, roads: 14.80 Ha., Other and plantation- 52.95 Ha, Total-140.21 Ha.	The information furnished in respect of the land use pattern in annual return appears to be correct	NIL.
9d	Scrutiny of Annual return on afforestation	10000 number of trees has been reflected for plantation.	The information furnished found to be in order.	NIL.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral Reject generation furnished is NIL.	No Mineral Reject has been generated.	NIL.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock: NIL, Closing stock of Graded Ore: 178893.00 tonnes.	The information furnished appears to be correct.	NIL.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price: Rs. 328.08 per tonne, Cost of production: RS. 328.08 per tonne.	The information furnished found to be in order.	NIL.

9h	Scrutiny of Annual return on fixed assets	The value of fixed asset furnished is Rs. 2253527094.00	The information furnished appears to be correct.	NIL.
9k	Scrutiny of Annual return on mining machineries	Dozer, Dumper, Rock Drill, Front end loader etc.	Dozer, Dumper, Rock Drill, Front end loader etc.	NIL.

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
MCDR17	Rule 11(1)	18-OCT-19			
MCDR17	Rule 12(1)	18-OCT-19			

Date :

(DILIP JAIN)

Indian Bureau of Mines