

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

Review and updation of Mining Plan REPORT

Nagpur regional office

Mine file No : MP/NMC/LST-8/NGP

Mine code : 38MPR51001

- (i) Name of the Inspecting : **SQ31**) **DEEPAK SHARMA**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 12-NOV-19
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **VIKRAM CEMENT LIMESTONE M**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : NIMACH
Village : SUVAKHEDA, MOKA, MAHES
Taluka : JAWAD
Post office : KHOR
Pin Code : 458470
FAX No. : 07420-235524
E-mail : vcmail@adityabirla.com
Phone : 07420-230830
- (f) Police Station : JAWAD
- (g) First opening date : 29-DEC-07
- (h) Weekly day of rest :
2. Address for : VIKRAM CEMENT WORKS
correspondance PO : KHOR, TAH : JAWAD
DISTRICT NEEMUCH (M.P.)
3. (a) Lease Number : MPR2209
(b) Lease area : 342.61
(c) Period of lease : 50
(d) Date of Expiry : 27-JAN-52
4. Mineral worked : LIMESTONE Main

5. Name and Address of the
Lessee : M/S GRASIM INDUSTRIES LTD.
RAIPUR CHHATTISGARH
Phone:
FAX :
6. Date of approval of Mining : Fresh under rule 22 MCR1960 21-MAR-01
Plan/Scheme of Mining Mining Scheme rule 12 MCDR1988 11-APR-11
Mining Scheme rule 12 MCDR1988 24-JUN-15

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration was proposed for the reporting year 2018-19	No exploration was during the reporting year	
1b	Exploration over lease area for geological axis 1 or 2	Lease area already explored upto G1 level	Lease area already explored upto G1 level	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Proposed	NIL	
1d	Balance area to be explored to bring Geological axis in 1 or 2	area already explored upto G1 level	area already explored upto G1 level	
1e	Balance reserve as on 01/04/20	111-79.07 121-0.88 as on 01/04/2015	111-72.45 121-0.88 as on 01/04/2018	
1f	General remarks of inspecting officers on geology, exploration etc			limestone of the area belong to nimbhara limestone grey in colour

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	it was proposed to do development in the central portion of the lease area in between grid line E 486549 to 485266 and N 2715630 to 2714880	Development is as per proposal given in approved mining plan in between grid line E 486040 to 485287 and N 2715610 to 2714920	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate bench in Top Soil, OB and in mineral was proposed	Separate benches in Top Soil, OB and mineral bench prepare as per plan	
2c	Stripping ratio or ore to OB ratio	1:0.29	1:0.30	
2d	Quantity of topsoil generation in m3	32200	32000 approx	
2e	Quantity of overburden generation in m3	1.57 mt	1.50 mt	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development of pit is slightly deviated, however development found as per proposal

Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	Two Pits proposed for production	production is being carried out from two proposed pits	
3b	Quantity of ROM mineral production proposed	5.20 mt	4.46 mt	
3c	Recovery of sailable/usable mineral from ROM production	90 %	90 %	
3d	Quantity of mineral reject generation	0.30	0.14	
3e	Grade of mineral rejects generation and threshold value declared.	Not declared	not declared (clay matrix removed through screening)	
3f	Quantity of sub grade mineral generation.	0.06	NIL	

3g	Grade of sub grade mineral generation	NIL	NIL Screening waste clay matrix
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method proposed for ROM segregation	Mechanised method adopted (screening)
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	NIL
3j	Provision of drilling and blasting in mineral benches	Drilling and blasting proposed in mineral bench	drilling and blasting method is adopted in the mineral bench
3k	Provision of mining machineries in mineral benches	use of HEMM is proposed in mineral bench	HEMM is being used in mineral bench
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	height of benches are suitable in OB and mineral bench	height of benches are suitable in OB and mineral bench as per proposal
3m	Total area covered under excavation/pits	104.54	100.0
3n	Ore to OB ratio for the pit/mine during the year.	1:0.29	1:0.20 aprox

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Sepeate dumping for top soil and ob proposed	seperated dumping for top soil and ob is being carried out as per the proposal	

4b	Location of topsoil, OB and mineral reject dumps	OB dump-North of the lease area (4866400 E-486800 E) (2715800 N - 2716200 N) OB dump -South of the lease area (485400 E-485800E) (2714800 N- 2714700 N) temporary soil storage in southern portion of the lease area and central eastern portion of the lease area	OB dump-North of the lease area (4866300 E- 486900 E) (2715800 N - 2716200 N) OB dump -South of the lease area (485400 E- 485800E) (2714800 N- 2714700 N) temporary soil storage in southern portion of the lease area and central eastern portion of the lease area
4c	Number of dumps within lease area and outside of lease area	Two OB dump and two temporary top soil dump within lease area	two OB and two temporary top soil dump[within lease area as per proposal
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side the UPL	Out side the UPL
4e	Number of active and alive dumps.	Two + two temporary dump	two + two temporary dump
4f	Number of dead dumps.	Not proposed	NIL
4g	Number of dumps established.	Not Proposed	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	Not Proposed	Retaining wall & garland drains are made at periphery of OB dump in some places
4i	Length of Retaining wall or garland drain all along dumps	Not Proposed	250m aprox
4j	Number of settling ponds	Not Proposed	NIL

4k	Specific comments of inspecting officer on waste dump management	OB is being dumped in the designated places, top soil is being dumped temporary for near by proposed plantation place
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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.	full extration of mineral (limestone) is proposed for backfilling	After full extraction, backfilling is being done simultaneously	
5b	Area under backfilling of mined out area	4.96 hect	1.1 hect aprox	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Top soil to be used for plantation within ML area.	Top soil is being utilising for plantation within ML area.	
5d	Total area fully reclaimed and rehabilitated	4.96	2.30 aprox	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			backfilling is being done in the places wherever limestone has been fully extracted and reclamanation is being done by plantaion

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).	Proposed	Not-Submitted
6b	Area available for rehabilitation (ha) .	Not Proposed	NIL
6c	afforestation done (ha).	Not Proposed	NIL
6d	No. of saplings planted during the year	1000	1200 aprox
6e	Cumulative no .of plants	15000	13000 aprox
6f	Any other method of rehabilitation	Not Proposed	NIL
6g	Cost incurred on watch and care during the year	Not Declared	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	16 ha. (Pit-1-340x245x31) (Pit-2-400x145x13) (Pit-3-200x100x14)	4.69 ha (Pit-1-350x110x26) (Pit-2- 325x120x9
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	4.96	1.1
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	1.85	0.95

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Proposed	NIL	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not Propsoed	NIL	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	1.85	0.95	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	1.10	1.20 aprox	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	backfilling and plantation after full extraction mineral	backfilling and plantation after full extraction mineral	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Air, water & Noise monitoring	Air, water & Noise monitoring is being done regularly.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			backfilling and planttaion over the backfilled area after full extratction of the mineral (limestone)

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch proposed to captive cement plant	ROM mineral is being dispatched to captive cement plant
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanical method proposed for sorting (in the way of screening)	mechanical method is being adopted (in the way of screening)
7c	Different grade of mineral sorted out at mines.	not proposed	NIL
7d	Any beneficiation process at mines .	not proposed	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		ROM is being dispatched to captive plant

Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	as per proposal separate stacking of topsoil is being done	
8b	Concurrent use or storage of topsoil	it is proposed to use topsoil in plantation	top soil is being used in plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping proposed for OB	OB is being dumped separately	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed	by means of backfilling land is being re-stored to its original use	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed	as per proposal backfilling is being done	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed	as per proposal	
8g	Survival rate	90%	85%	
8h	Water sprinkling on roads to control airborne dust	proposed	as per proposal	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			aesthetic beauty of the area and surrounding is good

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	AR ans MR submitted online	AR submitted upto 2018 MR submitted upto Dec 2019	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	provided	Appoint the full time Mining Engineer cum Manager & Geologist.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Surface area utilisation 75.63 ha.	Yes, Surface area utilisation is as per A.R
9d	Scrutiny of Annual return on afforestation	13.62 ha area planted comprising on surface, OB dump & Backfilled area	Plantation is carried out along periphery of Lease boundary, OB dump & Back filled area.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	provided	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	provided	in AR
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Provided	Ex. Mine-178.91 Rs/tons price Production cost- 178.91 Rs/tons including mining& overhead cost all taxes.
9h	Scrutiny of Annual return on fixed assets	provided	fixed asset Rs/- 382861587 including three leases
9k	Scrutiny of Annual return on mining machineries	provided	Include all machineries, Shovel, dumper, drill, Dozer 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 :

(DEEPAK SHARMA)

Indian Bureau of Mines