

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

MCDR inspection REPORT

Nagpur regional office

Mine file No : MP/MND/LST-2/NGP

Mine code : 38MPR23002

- (i) Name of the Inspecting : **KQ14**) **NARESH KUMAR KATARIYA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Mr. Subhash Nigam (Sr. VP, Agent)
Official with
Designation
- (iv) Date of Inspection : 31-AUG-21
- (v) Prev.inspection date : 21-JAN-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **VIKRAM CEMENT**
- (b) **Registration NO.** :
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : NIMACH
Village : KHOR, KHEDARATHOR ETC
Taluka : JAWAD
Post office : KHOR
Pin Code : 458470
FAX No. : (0712) 533041
E-mail : vikram.cement@gems.vsnl.net
Phone : 533603, 522794
- (f) Police Station : KHOR
- (g) First opening date : 10-MAY-84
- (h) Weekly day of rest : MON
2. Address for : M/S GRASIM INDUSTRIES LTD.,
correspondance : VIKRAM CEMENT, VIKRAM NAGAR,
P.O. KHAR 458 470, DISTT. NEEMUCH (M.P)
3. (a) Lease Number : MPR0304
(b) Lease area : 442.92
(c) Period of lease : 50
(d) Date of Expiry : 10-NOV-32
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : M/S VIKRAM CEMENT
 VIKRAMNAGAR, P.O. KHOR -
 458 470 DIST. NEEMUCH (MP)
 NIMACH MADHYA PRADESH
 Phone:07420 - 35514 , 30830
 FAX :07420 - 35524

Owner : SHRI V.T.MOORTHY
 UNIDENTIFIED TAMIL NADU
 Phone:
 FAX :

Agent : S.C.PARIK
 VIKRAM CEMENT LIMESTONE
 MINES P.O-KHOR NIMACH.
 NIMACH MADHYA PRADESH
 Phone:
 FAX :

Mining Engineer

Name : S.C.NIGAM, Full Time
 Qualification : B.TECH (MININIG)
 Appointment/ : 24-SEP-09
 Termination date

Geologist

Name : SHRI R.K.TIWARI, Full Time
 Qualification : M.SC GEOLOGY
 Appointment/ :
 Termination date

Manager

Name : S.C.NIGAM
 Qualification : B.TECH (MINING)
 Appointment/ : 24-SEP-09
 Termination date

6. Date of approval of Mining	:	Modif.approved Mining Scheme	06-OCT-00
Plan/Scheme of Mining	:	Renewal under rule 22 MCR1960	21-OCT-02
	:	Modif.of approved Mining Plan	07-NOV-03
	:	Mining Scheme rule 12 MCDR1988	05-SEP-08
	:	Modif.approved Mining Scheme	22-MAR-12
	:	Mining Scheme rule 12 MCDR1988	16-APR-15

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	
1b	Exploration over lease area for geological axis 1 or 2	Not proposed	Not done	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G-1 - 227.98 Hect G-2 - 93.55 Hect Non Mineralised - 121.393 Hect	G-1 - 227.98 Hect G-2 - 93.55 Hect Non Mineralised - 121.393 Hect	Exploration for the remaining area is proposed in the year 2021-22.
1e	Balance reserve as on 01/04/20		Balance reserve as on 01.04.2021 - 6.20 MnT	
1f	General remarks of inspecting officers on geology, exploration etc			Exploration for the remaining area is proposed in the year 2021-22.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Development was proposed in eastern side of SK-2 Block	Development was observed in eastern side of Sk-2 block.	Location of development is found as per proposal
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes.	Yes.	

2c	Stripping ratio or ore to OB ratio	1:0.59 18-19 1:0.66 19-20 1:0.56 20-21	1:0.0 18-19 1:0.0 19-20 1:0.0 20-21	During the year 2020-21, it was proposed to generate 0.18 million tone overburden for mine development. But, no overburden generated as per approved document. Violation pointed out for the same under rule 11(1) of MCDR-2017
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	0.18	Not done	Violation pointed out under rule 11(1) of MCDR-2017
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mine development was done under opencast mining method as per proposal. During the year 2020-21, it was proposed to generate 0.18 million tone overburden for mine development. But, no overburden generated as per approved document.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	0.32 MnT	0.0135 MnT	Due to land issue production was less.

3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	0.02MnT	0 MnT	No mineral rejects generated
3e	Grade of mineral rejects generation and threshold value declared.	Not Applicable	NIL	
3f	Quantity of sub grade mineral generation.	Not Applicable	NIL	
3g	Grade of sub grade mineral generation	Not Applicable	NIL	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method	Mechanised method	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Not done	
3j	Provision of drilling and blasting in mineral benches	Deep hole drilling & controlled blasting with large dia hole	Drilling of 115 mm hole dia & using slurry & ANFO in connection with NONEL	
3k	Provision of mining machineries in mineral benches	Yes	Yes	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed bench height 5m - 8 m is suitable for OB & Limestone	Height of the benches observed 5m -8m	

3m	Total area covered under excavation/pits	240.53 ha (at the end of present plan period)	238.90 ha	As on 31.03.2021
3n	Ore to OB ratio for the pit/mine during the year.	1:0.56	1:0.0	During the year 2020-21, it was proposed to generate 0.18 million tone overburden for mine development. But, no overburden generated as per approved document. Violation pointed out for the same under rule 11(1) of MCDR-2017
3o	Total area put in use under different heads at the end of year	308.52	298.56 ha	As on 31.03.2021
3p	Production of ROM mineral during the last five year period as applicable	2016-17 1.04MnT 2017-18 1.04MnT 2018-19 0.32MnT 2019-20 0.32MnT 2020-21 0.32MnT	2016-17 0.95MnT 2017-18 0.87MnT 2018-19 0.028MnT 2019-20 0.014MnT 2020-21 0.014MnT	
3q	General remarks of inspecting officers on method of mining etc.			Opencast method of mining which is suitable for the leased mineral and considering geological conditions.

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)	Yes	Yes	
4b	Location of topsoil, OB and mineral reject dumps	Not proposed for the RY	No fresh dump observed.	Backing filling of OB was proposed. But, no OB generated during the RY.
4c	Number of dumps within lease area and outside of lease area	Within ML- 11nos	Within ML- 11nos	11 nos of old OB dumps observed.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the UPL	Outside the UPL	
4e	Number of active and alive dumps.	Nil	Nil	
4f	Number of dead dumps.	11	11	
4g	Number of dumps established.	11	11	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed	Not applicable	
4i	Length of Retaining wall or garland drain all along dumps	Not proposed	155 m	
4j	Number of settling ponds	Not proposed	Not constructed.	
4k	Specific comments of inspecting officer on waste dump management			Backfilling of OB was proposed. But, no OB generated during the RY. 11 old dumps observed which were established with plantation.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Full extraction of mineral was proposed at the locations N2715800, E485059, N2715662, E484983, N2715596, E484774, N2715629, E484705, N2715804, E484755	Full extraction of mineral not done due to less production	
5b	Area under backfilling of mined out area	3.00 ha	0.00 ha	Backfilling was not done due to unavailability of OB. Violation pointed out under rule 11(1) of MCDR-2017.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Top soil to be used for plantation with in ML area.	Top soil is being utilising for plantation with in ML area.	No topsoil generated in the RY.
5d	Total area fully reclaimed and rehabilitated	0.4 ha	0.4 ha	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Full extraction of mineral & backfilling was proposed. But, no OB available for backfilling.

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	PMCP report submitted on 28-06-2021	

6b	Area available for rehabilitation (ha) .	NIL	NIL	
6c	afforestation done (ha).	NIL	NIL	
6d	No. of saplings planted during the year	NIL	NIL	
6e	Cumulative no .of plants	Not specified	300415 plants	
6f	Any other method of rehabilitation	Not proposed	Not done	
6g	Cost incurred on watch and care during the year	Not specified	Not specified	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	14.0.ha	14.0.ha	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	1.38 ha	Nil	Backfilling of area was not done as per approved proposal. Violation pointed out under rule 11(1) of MCDR-2017.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	0.00 ha	0.00 ha	Cumulative Plantation on Backfilling area is 133929 and area covered 19.54 ha.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil	

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	0.4 ha	0.4 ha	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.4 ha	0.4 ha	Cumulative Plantation on Backfilling area is 300415 and area covered 80.30 ha.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	1000 plants	6649 plants	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Yes	Air, water & Noise monitoring is being doing regularly.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Yearly PMCP report submitted under rule 26(2) of MCDR-2017. Plantation was done in the waste land of the lease area.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral was proposed to be dispatched for captive use.	Production 13570 MT Despatch 13570 MT	

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not proposed	Not applicable	
7c	Different grade of mineral sorted out at mines.	Not proposed	Not applicable	
7d	Any beneficiation process at mines .	No, only crushing and screening proposed	Crushing of ore was done.	Screening available but this year screening reject was NIL as per available records.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Complete excavated ROM mineral was dispatched for captive use. Blending of low grade ore was observed for mineral conservation.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Removed separately & utilised for plantation	Topsoil is not generated in the RY.	
8b	Concurrent use or storage of topsoil	Topsoil is not generated.	Topsoil is not generated.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of OB dump.	No OB generate during this year.	Violation pointed out under rule 11(1) of MCDR-2017

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	OB to be disposed inside of pit for backfilling purpose.	OB, waste rock, rejects are not generated during this year.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Phased restoration was proposed by backfilling and plantation.	Not done.	No OB generated in the RY.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Not specified.	Cumulative Plantation on Backfilling area is 300415 and area covered 80.30 ha.	
8g	Survival rate	Not specified	83.00%	
8h	Water sprinkling on roads to control airborne dust	Sprayed the water on mine road during every shift working.	Water is being sprayed through water tanker on mine road.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation done in the barrier zone and waste land for aesthetic beauty in the mine. Park developed at the Coordinates N 2717066.78 to 2716986.43 & E 484178.32 to 484133.78.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns		Yes, Submitted Monthly returns up to July-2021 Yes Annual returns submitted up to 2020-21	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Mines Manager cum Mining Engineer- Sh. Mukesh Kumar Thawait (w.e.f. 03/11/2020) Geologist- Sh. Manish Kumar Dixit (w.e.f. - 31/10/2019) Mr. Sachin Kumar Sharma (Appointment w.e.f. - 05/07/2021)	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	As per Annual Return.	
9d	Scrutiny of Annual return on afforestation	Yes	Total Afforestation Area-80.30 Ha Afforestation on Backfilling area-37.72 ha Afforestation on OB Dump-21.54 ha Afforestation on Surface-21.04 ha	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	Production 13570 MT Despatch 13570 MT	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	Ex- Mine Price- Rs.143.17 Production Cost: - Rs. 143.17	
9h	Scrutiny of Annual return on fixed assets	Yes	Fixed Asset Cost Rs. 42.28 Crores	Common for all Mines

9k	Scrutiny of Annual return on mining machineries	Yes	SHOVEL (Hydraulic) 4 CUM. 01 no. DUMPER35 TONNER 02 nos. BLAST HOST DRILL115 MM 01 no. WATER TANKER 20KL 01 no.
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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
MCDR17	Rule 11(1)	14-SEP-21			

Date :

(NARESH KUMAR KATARIYA)

Indian Bureau of Mines