

**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 : **SQ32**) **SANDEEP KUMAR SINGH**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 21-JAN-21
- (v) Prev.inspection date : 14-NOV-19

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	no proposal in year	--	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal in year	No Proposal in year	
1d	Balance area to be explored to bring Geological axis in 1 or 2		G1 - 227.98 Ha., G2 - 93.55 Ha. & Non Mineralized Area - 121.393, the level of exploration already done in area.	Exploration is carried out for entire ML area under the G1 level & G2 level.
1e	Balance reserve as on 01/04/20		6.22 (112/121), Million Tons	41.67 Million Tons Balance Resources

1f	General remarks of inspecting officers on geology, exploration etc	The area has been explored by 3730.5 mtr upto depth of 65 mtr. There are no proposals FY 2019-20. Area has high magnesia limestone, Soil etc as waste. The Limestone deposit of the applied area belongs to Nimbahera Limestone, equivalent to Rohtas stage of semri series of lower Vindhyan. The colour of the Limestone of the area is mostly grey with various shades such as dark, light, greenish and some beds are pink as well as yellowish.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Development was proposed in eastern side of SK-2 Block	Development is not done	violation issued.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	yes seperate benches planned.	benches can be seen.	
2c	Stripping ratio or ore to OB ratio	1:0.66	1:0.0	
2d	Quantity of topsoil generation in m3	2100	0	

2e	Quantity of overburden generation in m3	84210m3	0	violation issued.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Pit is developed with 06 nos. of benches of 6-8 mtr height. It has excavated area of 238 hect. it is old developed pit. no development has been done in year. violation is issued.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1 no.	1 no.	
3b	Quantity of ROM mineral production proposed	0.30 mio tons	0.014 mio tons	
3c	Recovery of sailable/usable mineral from ROM production	yes	yes	
3d	Quantity of mineral reject generation	.02 mio ton	nil	
3e	Grade of mineral rejects generation and threshold value declared.	below threshold	below threshold	clay/soil seperated after crushing.
3f	Quantity of sub grade mineral generation.	na	na	
3g	Grade of sub grade mineral generation	not proposed	nil	

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method	Screening of RoM for segregation of clay for upgrading the quality of limestone.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NP	-	
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 conjunction withNONEL delay detonators for blasting	
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 - 8m is suitable for OB & Limestone	5m -8m	
3m	Total area covered under excavation/pits	240.0	238.90 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.66	1:0.00	
3o	Total area put in use under different heads at the end of year	Excavation/Pit - 240 OB Dump & Top soil- 25.0 Infrastructure - 3.54 Mineral storage- 1.57 Green Belt- 0.00	Excavation/Pit- 240 OB Dump & Top soil- 238.9 Infrastructure- 3.54 Mineral storage- 1.54 Green Belt-17.0	land use with in fa limits.

3p	Production of ROM mineral during the last five year period as applicable	2018-19 300000 2019-20 300000	2018-19 28887 2019-20 14043	plan is reviewed in yr 18-19 for period 18-19 to 22-23. less production and no development is done.violation is issued for same.
3q	General remarks of inspecting officers on method of mining etc.			Production is very less.less production and no development is done.violation is issued for same.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	YES seperate.	no deveopement work done in year	
4b	Location of topsoil, OB and mineral reject dumps	Top soil small part to be temporarailly stored.	no work is done	No mineral Location of mineral rejected.it will be backfilled.
4c	Number of dumps within lease area and outside of lease area	Within ML- 1lnos	Within ML- 1lnos	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside of UPL	Outside of UPL	
4e	Number of active and alive dumps.	2 nos	2 nos	
4f	Number of dead dumps.	09 Nos.	09 Nos.	
4g	Number of dumps established.	Nil	Nil	Backfilling

4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain and wall constructed. No proposal for this year.	Retaining wall& garland drains are made at periphery of old dump. no proposal in current year.	
4i	Length of Retaining wall or garland drain all along dumps	Old dumps.stabalized.	Old dumps	
4j	Number of settling ponds	0	0	Nil in this year
4k	Specific comments of inspecting officer on waste dump management			no generation of waste in the year .screen reject.will be used in plant .waste is to be backfilled.no work done in this year as mines didnt operate to scale.

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.	Area to be backfilled, where the limestone fully extracted.	After full extraction, Simultaneously backfilling will be done	no work in this year.
5b	Area under backfilling of mined out area	2.20	0.00 ha	
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.	no handling in this year.	
5d	Total area fully reclaimed and rehabilitated	-	-	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Less working in this mine due to less production.no waste generated is less.no backfilling happened.violation issued.
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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).		PMCP report was sent through email on dated 19-June-2020	
6b	Area available for rehabilitation (ha) .			no proposal for mined benches.
6c	afforestation done (ha).			no proposal for mined out benches.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	2.2	0	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	yes	yes	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	nil	nil	

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	1000nos,0.4 hect	1100 nos	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	na	nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	yes	done	Air, water & Noise monitoring is being carrying regularly
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Environmental monitoring is being done for air, noise, ground water.Water reservoir has been made in mines.mines has big reservoir.lot of plantation is done.and around 20 hect area is reclaimed/rehabilitated by backfilling/water resevoir.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM of the screening	ROM of the screening	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	N/A	N/A	

7c	Different grade of mineral sorted out at mines.	N/A	N/A	
7d	Any beneficiation process at mines .	No, Expect crushing & screening	No, Expect crushing & screening	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Screening of ROM & crushing

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Removed separately & utilised for plantation.	Top soil is not handled in this year	violation issued.
8b	Concurrent use or storage of topsoil	Temporarily storage & use	not done in year.no handling.no developemnt	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	backfilling	backfilling.no handling done in year.	Backfilling
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	planned but no work done in year.	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	planned.not done in this year.	planned in approved plan
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	addittional - 1000	1100 nos	
8g	Survival rate	80 %	70 %	
8h	Water sprinkling on roads to control airborne dust	proposed	Water is being sprayed through water tanker on mine road	it is done
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Backfilling & plantation is done on reclaimed area in past years.One good function park is constructed in lease area.A big water body has been developed in mines area to supply water for self and neighbouring villages.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Monthly returns submitted. Annual returns up to 2019-20 submitted.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	abhisek kumar ME,manish dixit-geologist	yes		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 298.16 ha. Out of which 54 ha. Is reclaimed.	Yes, Surface area utilisation is as per A.R.
9d	Scrutiny of Annual return on afforestation	5312 nos, 80%			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)	nil	N/A		-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	nil	Nil		no stocks
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost			Production cost-181.59 Rs./tons including mining & overhead cost all taxes.	No sale value due captive consumption
9h	Scrutiny of Annual return on fixed assets			Rs./- 313807325	Include land, building machineries etc. of three mine leases.

9k	Scrutiny of Annual return on mining machineries	TYPE OF MACHINERY CAPACITY UNITS ELECTRICAL / NON-ELECTRICAL SHOVEL (HYDRAULIC) 4.000 CUM 1 Non Electrical SHOVEL (HYDRAULIC) 6.500 CUM 3 Non Electrical DUMPER 35 CUM 2 Non Electrical DUMPER 40 TONNE 2 Non Electrical DUMPER 55 TONNE 8 Non Electrical DOZER 305 TONNE 2 Non Electrical BLAST HOST DRILL 115 MM 3 Non Electrical WATER TANKER 20000 LITRE 1 Non Electrical
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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)	27-APR-21			

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines