

**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 : **SQ31**) **DEEPAK SHARMA**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Sanjay Sharma Geologist, M Senthil Mining Engineer
Official with
Designation
- (iv) Date of Inspection : 14-NOV-19
- (v) Prev.inspection date : 30-OCT-18

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 :
(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	No Exploration was proposed for the reporting year 2018-19	No exploration done in the reporting year 2018-19	
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	Ultratech Cement Ltd	Ultratech Cement Ltd	
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	111-3.03 mt 122-4.10 mt (as on 01/04/2017)	111-2.1244 mt 122-4.10 mt (as on 01/04/2019)	
1f	General remarks of inspecting officers on geology, exploration etc			Limestone of the lease area belong to lower vindhyan super group of 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 work in the SK-2 block of the lease area	development work was being done in the SK-2 block, eastern portion of the lease area	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	it is proposed to develop separate benches in the top soil and OB	seperate benches in top soil and OB is being developed	
2c	Stripping ratio or ore to OB ratio	1:0.59	1:0.5 (aprox)	
2d	Quantity of topsoil generation in m3	2300	2100 aprox	
2e	Quantity of overburden generation in m3	0.19 mt	0	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			development is not being done as per the proposal, removal of waste / ob not matches the proposal given in mining plan

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit (SK-2)	One Pit (SK-2)	
3b	Quantity of ROM mineral production proposed	300000 T	28887 T	
3c	Recovery of sailable/usable mineral from ROM production	93.57	93	
3d	Quantity of mineral reject generation	20800	NA	
3e	Grade of mineral rejects generation and threshold value declared.	NIL (waste Screen Rejects)	NIL (waste screen rejects)	

3f	Quantity of sub grade mineral generation.	15500	NIL	Sub grade mineral generation not as per proposal
3g	Grade of sub grade mineral generation	Not declared	NIL	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method adoption proposed	mechanised method (screening) is being used for segregation of ROM	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	NA	
3j	Provision of drilling and blasting in mineral benches	Drilling and Blasting is proposed in mineral benches	drilling and blasting is being used in mineral bench as per proposal	
3k	Provision of mining machineries in mineral benches	HEMM is proposed used in mineral benches	HEMM is being used in mineral benches (as per proposal)	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	proposed height of benches suitable for method of mining proposed	proposed height of benches suitable for method of mining	
3m	Total area covered under excavation/pits	270	267.50 Aprox	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.59	1:0.50 (aprox)	
3o	Total area put in use under different heads at the end of year	308.52	306 (aprox)	

3p Production of ROM mineral during the last five year period as applicable

2018-19-0.3 mt	2018-19-.028 mt
2017-18-1.0 mt	2017-18-0.8mt
2016-17-1.0 mt	2016-17-0.95 mt
2015-16-2.5 mt	2015-16-2.5 mt
2014-15-4.0 mt	2014-15-3.5 mt

3q General remarks of inspecting officers on method of mining etc.

HEMM is being used in the mineral bench for production, transportation is being done by trucks and conveyor belts

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of topsoil and mineral reject proposed	separate dumping of top soil and mineral rejects is being done as per proposal	
4b	Location of topsoil, OB and mineral reject dumps	OB is proposed to be dumped in the exhausted area in teh central portion of the lease area	OB is being dupmed in the central portion of the lease area as per proposal	
4c	Number of dumps within lease area and outside of lease area	11 nos within lease area	11 within lease area	
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.	2 active dumps	2 active dumps	
4f	Number of dead dumps.	NIL	NIL	
4g	Number of dumps established.	9	9	

4h	Whether Retaining wall or garland drain all along dumps are there.	Not Proposed	Retaining wall & garland drains are made at periphery of one OB dump	
4i	Length of Retaining wall or garland drain all along dumps	Not Proposed	250m aprox	
4j	Number of settling ponds	NIL	NIL	
4k	Specific comments of inspecting officer on waste dump management			generated OB is being dumped in the designated place for backfilling and reclamation program

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.	Fully extracted area is being backfilled	fully extracted area is being backfilled with the generated OB	
5b	Area under backfilling of mined out area	3.00	0.0	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Top soil to be used for plantation	Top soil is being utilising is plantation	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			fully extracted area is being backfilled with the generated Ob and plantation is being done with the top soil generated from the ML

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).	proposed	Not Submitted	
6b	Area available for rehabilitation (ha) .	0.4 hect	0.35 hect aprox	
6c	afforestation done (ha).	0.4 hect	0.35 hect aprox	
6d	No. of saplings planted during the year	1000	1000	
6e	Cumulative no .of plants	-	-	
6f	Any other method of rehabilitation	Not Proposed	NIL	
6g	Cost incurred on watch and care during the year	Not proposed	NIL	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	12 hect	11 hect	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	3.0	0.0	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	0.00	0.69	

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 Proposed	NIL	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	0.4	1.0 aprox	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	0.4	1.0	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Plantation	as per proposal	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Air, water & Noise monitoring is being doing regularly.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			fully extracted area is being backfilled with generated OB and plantation over backfilled area is being done with the generated top soil

Mineral Conservation:

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

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	proposed	Separate removal and utilization is adopted for use of top soil	
8b	Concurrent use or storage of topsoil	Proposed	Top soil is being used for planttaion of the backfilled area as per proposal	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed	Ob and top soil is being dumped sepeartly	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed	OB is being used for backfilling and restoring of the land	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed	as per proopsal	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed	as per proposal	
8g	Survival rate	90 %	95 %	
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 mine is good

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR Submitted upto NOV 2019 AR Submitted upto 2018 (2018-19)	Online MR and AR submitted	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Agent Shri Deepak Mahule Manager Shri Abhishek Bhardwaj Mining Engineer in charge Shri Abhishek Bhardwaj Geologist in charge Shri R.K. Tiwari	information of ME and Geologist furnished in the AR
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	land use pattern details furnished in the AR	land use pattern details furnished in the AR
9d	Scrutiny of Annual return on afforestation	afforestation information is provided	information furnished
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	details furnished	6026 tonnes
9f	Scrutiny of Annual return on ROM stock and/or graded ore	furnished	ROM information furnished in the AR
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	furnished	298.22 INR
9h	Scrutiny of Annual return on fixed assets	furnished	Value of Fixed Assets (in INR) 382861587
9k	Scrutiny of Annual return on mining machineries	furnished	mining machineries details provided combined for three leases

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)	01-JAN-20			
	Rule 26(2)	01-JAN-20			
MCDR17	Rule 33	01-JAN-20			
	Rule 55	01-JAN-20			

Date :

(DEEPAK SHARMA)

Indian Bureau of Mines