

MINERALS DEVELOPMENT AND REGULATION DIVISION

I/8692/2023

Review and updation of Mining Plan REPORT

Nagpur regional office

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

Mine code : 38MPR23002

- (i) Name of the Inspecting : G005) SANJAY M. GIRHE
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 11-OCT-22
- (v) Prev.inspection date :

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

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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 proposed during the year 2021-22	No exploration proposed during the year 2021-22	Most of the ML area already explored in G1 level of exploration
1b	Exploration over lease area for geological axis 1 or 2	No exploration proposed during the year 2021-22	No exploration proposed during the year 2021-22	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No exploration proposed during the year 2021-22	No exploration proposed during the year 2021-22	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No exploration proposed during the year 2021-22	G1 - 330.72 ha G2 - 9.69 ha Non Mineralized - 92.80 ha	
1e	Balance reserve as on 01/04/20			
1f	General remarks of inspecting officers on geology, exploration etc	NA	NA	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It was proposed to worked between E-484974 to 485372, N2716503 to 2715896	Working carried out between the grid E-485334 to 485386 N-2716111 to 2716174	Working carried out in proposed location
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in topsoil, overburden and mineral proposed	Separate benches in topsoil, overburden and mineral maintained	Benches in OB and limestone were maintained very well

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2c	Stripping ratio or ore to OB ratio	Proposed as 1:0.56 Tonne/CuM	Acheived -Nil	Nil OB / IB generation in actual, due to land issue in proposed area.
2d	Quantity of topsoil generation in m3	No Proposals	Nil	During the year 2021-22, no top soil generated
2e	Quantity of overburden generation in m3	Proposed as 72337 CuM	Nil	Nil OB / IB generation in actual, due to land issue in proposed area.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	NA	Presently there are total 3 working pits namely Khor, SK-1 & SK-2 and its dimensions are Khor Pit (2030m x 423m x 41m), SK-1: (960m x 542m x 41m) & SK-2 (2271m x 435m x 41m). Limestone mineralisation very well seen in the working pits.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Development & excavation proposed in single Pit-1	Working carried out as per the proposals	
3b	Quantity of ROM mineral production proposed	Proposed as 320000 Tonnes	Acheived as 22349 Tonnes	Less production due to land acquiring issues
3c	Recovery of sailable/usable mineral from ROM production	Proposed as 93.75 %	Acheived about 93%	

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3d	Quantity of mineral reject generation	Proposed as 20000 MT	Acheived as Nil	Due to very less production of limestone mineral reject generation has not been occurred
3e	Grade of mineral rejects generation and threshold value declared.	Proposed as Less than 34.0 CaO%	Nil	No mineral rejects generated in 2021-22
3f	Quantity of sub grade mineral generation.	Proposed as 10800 MT	Acheived as 300 MT	very less sub-grade limestone generated during the year due to very less production during the year 2021-22
3g	Grade of sub grade mineral generation	CaO - 39 %	CaO - 39 %	very less sub-grade limestone generated during the year due to very less production during the year 2021-22
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized (Screening)	Mechanized (Screening)	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposals	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Yes, deep hole drilling & blasting was proposed	Yes, deep hole drilling & blasting was carried out as proposed	Drilling & blasting carried for both OB and in limestone benches
3k	Provision of mining machineries in mineral benches	HEMM proposals in both OB & Mineral benches given	HEMM deployed in both OB & Mineral benches	HEMM selection as per production and total development target proposed per annum

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3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, bench height 5 to 8m proposed in OB and limestone	Yes, bench height 5 to 8m maintained in OB and limestone	
3m	Total area covered under excavation/pits	240.53 Ha proposed as per ROMP approved on 11.01.2018	238.90 Ha as on 01.04.2022 as online annual return	
3n	Ore to OB ratio for the pit/mine during the year.	Proposed as 1:0.56 Tonne/CuM	Nil	Nil OB / IB generation in actual, due to land issue in proposed area.
3o	Total area put in use under different heads at the end of year	As per the previous approved ROMP dtd 11.01.2018 Pits-240.53Ha OB Dumps-24.90Ha Top soil Storage-0.50Ha Mineral Storage-1.57Ha Infrastructure -3.54Ha Road-10.49Ha Others-17.41 Ha	As per the Annual Returns for the year 2021-22 Pits-238.90 Ha Reclaimed & Rehabilitated-38.64Ha OB Dumps-24.90Ha Infrastructure-14.03Ha Others-21.04 Ha	
3p	Production of ROM mineral during the last five year period as applicable	2018-19 -: 320000 MT 2019-20 -: 320000 MT 2020-21 -: 320000 MT 2021-22 -: 320000 MT 2022-23 -: 320000 MT	2018-19 -: 28,887 MT 2019-20 -: 14,043 MT 2020-21 -: 13,570 MT 2021-22 -: 22,349 MT 2022-23 -: Nil (Up to Oct-2022)	Production details as per annual returns

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3q	General remarks of inspecting officers on method of mining etc.	NA	NA	Open cast mechanised mining operation with combination of HEMM and deep hole drilling & blasting was being practised. Provision of rock breaker also given in zone where drilling & blasting was not feasible.
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Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate stacking for top soil & mineral reject was proposed. OB utilization for backfilling was proposed	No overburden and mineral rejects generated during the year 2021-22	
4b	Location of topsoil, OB and mineral reject dumps	No Proposals	Nil	Concurrent use for backfilling was proposed
4c	Number of dumps within lease area and outside of lease area	Total 12 nos of OB dumps located in lease area at different locations	Total 12 nos of OB dumps located in lease area at different locations	Locations of dumps marked on all the relevant plans
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Total 12 nos of OB dumps located in lease area at different locations outside UPL	Total 12 nos of OB dumps located in lease area at outside UPL	
4e	Number of active and alive dumps.	No Proposals	No active dumps in mining lease area	
4f	Number of dead dumps.	NA	No dead dumps in mining lease area	

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4g	Number of dumps established.	12 numbers of OB dumps stabalized	12 numbers of OB dumps stabalized	These are old OB dumps located in ML area
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposals	No additional proposal, existing is being maintained	
4i	Length of Retaining wall or garland drain all along dumps	No Proposals	No additional proposal, existing is being maintained	
4j	Number of settling ponds	No Proposals	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	NA	NA	There are total 12 numbers of OB dumps which are old one. These dumps material proposed for backfilling in worked/mined out pits area as per the approved document.

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 extraction is proposed before commencement of Backfilling	No Backfilling was done , as no waste material generated during the year 2021-22	No Backfilling was done , as no waste material generated during the year 2021-22
5b	Area under backfilling of mined out area	1.23 Ha	No backfilling carried out during the year 2021-22	No overburden material generated during the year 2021-22
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposed by 2100 CuM	Nil	No top soil generated during the year 2021-22

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5d	Total area fully reclaimed and rehabilitated	93.44 Ha	82.76 Ha	Cumulative reclaimed and rehabilitated area in mining lease.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	NA	Scope of reclamation and rehabilitation very well exists in some mined out pits area and accordingly proposals were also give but due no OB generation no works carried out.

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).	To be submitted before 1st July of every year	PMCP report Submitted as per rule 26(2) of MCDR-2017 on 22.06.2022	
6b	Area available for rehabilitation (ha) .	NA	NA	
6c	afforestation done (ha).	NA	NA	
6d	No. of saplings planted during the year	No Proposals	Nil	
6e	Cumulative no .of plants	NA	300415 plants	
6f	Any other method of rehabilitation	No Proposals	Nil	Nil
6g	Cost incurred on watch and care during the year	Not Specified	Not Specified	Nil

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6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Proposed as 14.0Ha	Acheived during the year Nil	Total 11 Ha cumulative as on date
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Proposed as 1.23 Ha	Acheived as Nil	Total 82.76 Ha cumulative as on date
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Proposed as 0.40 ha	Acheived as 0.40 ha	Cumulative as on date about 37.72 Ha
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposals	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Proposals	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No Proposals	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No Proposals	Nil	Nil

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6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No Proposals	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodical Air, Water, Noise monitoring Proposed	Yes, Compliances of environmental monitoring is being carried out.	Analysis reports were provided
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	NA	Scope of backfilling/reclamation & rehabilitation very well exists in some mined out pits area and accordingly proposals are also given but due less/Nil generation of OB work couldn't be achieved. Periodic monitoring is being carried out by outsourced consultant.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	3,20,000 MT production proposed during the year 2021-22	ROM /Cement grade - 22349 (Dispatched) MT	Less production due to Land issue of proposed working area.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanized (Screening)	Mechanized (Screening)	
7c	Different grade of mineral sorted out at mines.	No Proposals	Nil	Only Cement Grade & Reject separation

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7d	Any beneficiation process at mines .	No Proposals	Nil, Screening system available, however in 2021-22 no screening was done.	Screening system available, however in 2021-22 no screening was done.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	NA	ROM scrushing and screening facility is available in mining lease area. This is captive mine hence entire ROM is being consumed in cement plant.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Top soil removal and its concurrent utilization proposed for bunds formation	Nil, no top soil generated during the year 2021-22	No top soil generated during the year 2021-22
8b	Concurrent use or storage of topsoil	Concurrent utilization proposed for bunds formation proposed	Nil	No top soil generated during the year 2021-22
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Overburden generated & its utilization for backfilling purpose was proposed	Nil	No overburden material generated during the year 2021-22
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.	No OB generated during the year 2012-22

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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	
8g	Survival rate	Proposed as 85%	Acheived about 80%	
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.	Water tanker of 5KL capacity is provided for the purpose
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NA	NA	Aesthetic beauty in and around mine area is very much satisfactory as the huge plantation have been done in the lease area. Different species of saplings have been planted.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. submitted upto- Sept- 2022 A.R. submitted upto- 2021-22	Annual Return for the year 2021-22 submitted within time limit	Annual and monthly returns submitted copies were produced during mines inspection

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	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) Geologist - Mr. Shri Vipin Kumar Gautam (w.e.f. - 20-06-2022)	Both mining eng and geologist were present during mines inspection
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Pits-238.90 Ha Reclaimed & Rehabilitated-38.64Ha OB Dumps-24.90Ha Infrastructure-14.03Ha Others-21.04 Ha	
9d	Scrutiny of Annual return on afforestation	Given	2300 nos. of saplings planted in ML area and 1107 nos planted in outside ML area	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not Given	No mineral rejects generated during the year 2021-22	No mineral rejects generated during the year 2021-22
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	Cement Grade: O/S-Nil Despatch-22349 MT C/S-Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Ex-Mine : Rs -169/Tonne, Captive consumption	Captive consumption
9h	Scrutiny of Annual return on fixed assets	Given	Value of Fixed Assets- Rs 466964255	
9k	Scrutiny of Annual return on mining machineries	Given	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 couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on

Date :**(SANJAY M. GIRHE)**

Indian Bureau of Mines