

MINERALS DEVELOPEMMENT AND REGULATION DIVISION

I/8693/2023

Review and updation of Mining Plan REPORT

Jabalpur regional office

Mine file No : MP/Neemuch/Limestone/14

Mine code : 38MPR51005

- (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 : 12-OCT-22
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) Mine Name : VIKRAM CEMENT LIMESTONE
- (b) Registration NO. : 441
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : NIMACH
Village :
Taluka :
Post office :
Pin Code :
FAX No. :
E-mail :
Phone :
- (f) Police Station :
- (g) First opening date :
- (h) Weekly day of rest :
2. Address for :
correspondance :
3. (a) Lease Number :
(b) Lease area :
(c) Period of lease :
(d) Date of Expiry :
4. Mineral worked :

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5. Name and Address of the
Lessee : M/s ULTRATECH CEMENT LIMITED
TEHSIL JAWAD NIMACH
DISTRICT NIMACH MADHYA
PRADESH
Phone:
FAX :
6. Date of approval of Mining :
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration was proposed during the year 2021-22	Nil	Detailed exploration in ML area carried out by 35nos of boreholes with 1895 m drilling for G1 level of exploration
1b	Exploration over lease area for geological axis 1 or 2	No exploration was proposed during the year 2021-22	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No exploration was proposed during the year 2021-22	Nil	Detailed exploration in ML area carried out by 35nos of boreholes with 1895 m drilling for G1 level of exploration
1d	Balance area to be explored to bring Geological axis in 1 or 2	No exploration was proposed during the year 2021-22	Mining lease area already explored in G1 level by detailed exploration in past on borehole grid of 100m x 150m	
1e	Balance reserve as on 01/04/20	Reserves in Million Tonnes as per approved MP dtd 08/08/2017 Proved(111) - 17.02 Resources in Million Tonnes Feasibility(211): 15.18	Reserves in Million Tonnes as per approved Annual Return 2021-22 Proved(111) -17.02 Resources in Million Tonnes Feasibility(211): 6.0	No additional resources/reserves have been reestimated
1f	General remarks of inspecting officers on geology, exploration etc	NA	NA	Limestone of ML area belongs to Nimbahera formation of Rohtas stage of semari series of lower Vindhyan. General strike of formation is NNW-SSE with dipping towards WSW & NE

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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	During the year 2021-22, it was proposed to work between N271664 to 2716874 & E485742 to 485934	Working carried out between N2716638 to 2716841 & E485785 to 485850	Working carried out in proposed location with very minor deviations
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No Proposals	Nil	Very less top overburden proposed to scrapped before limestone production
2c	Stripping ratio or ore to OB ratio	Proposed as 1:0.05 Tonne/CuM	Acheived as Nil	No overburden generated during the year 2021-22, Mine opened from 20.07.2021
2d	Quantity of topsoil generation in m3	No Proposals	Nil	No top soil generation proposed
2e	Quantity of overburden generation in m3	Proposed as 2000 CuM	Nil	No overburden generated during the year 2021-22
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	NA	Mine opened from 20.07.2021 and small pit was opened at central part of mining lease. (Aprox) Length 184 m, Width 113 m and Depth 7m.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit-1	Working carried out in proposed pit	Mine opened from 20.07.2021
3b	Quantity of ROM mineral production proposed	100000 MT during the year 2021-22	46858.920 MT acheived during the year 2021-22	Mine opened from 20.07.2021
3c	Recovery of sailable/usable mineral from ROM production	Proposed as 100%	Acheived as 100%	

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3d	Quantity of mineral reject generation	No Proposals	Nil	No generation proposed in year 2021-22
3e	Grade of mineral rejects generation and threshold value declared.	No Proposal	Nil	Nil
3f	Quantity of sub grade mineral generation.	No Proposals	Nil	Nil
3g	Grade of sub grade mineral generation	No Proposals	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	No Proposal of segregation	No Proposal of segregation	No Proposal of segregation
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	Drilling & blasting proposed	Drilling & blasting carried out as proposed	Deep hole drilling & control blasting proposed
3k	Provision of mining machineries in mineral benches	HEMM, Exvacavator , Dumper Combination	HEMM, Exvacavator , Dumper Combination	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes - Sutaialbe	Yes - Sutaialbe	
3m	Total area covered under excavation/pits	Excavation/pit s - 3.15 ha	Excavation/pits - 0.439 ha	Mine opened from 20.07.2021, hence there is difference in proposals Vs actual excvavted area
3n	Ore to OB ratio for the pit/mine during the year.	Proposed as 1:.05 Tonne/CuM	Nil	No overburden generated during the year 2021-22

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3o	Total area put in use under different heads at the end of year	Excavation/pits - 3.15 ha Plants, buildings, Infrastructure etc. - 0.20 ha Others (Specify) Road & Green belt - 2.56 ha Total area put in use under different heads -5.91 ha	Excavation/pits - 0.439 ha Plants, buildings, Infrastructure etc. - 0.014 ha Others (Specify) Road & Green belt - 1.228 ha	Mine opened from 20.07.2021, hence there is difference in proposals Vs actual excavated area
3p	Production of ROM mineral during the last five year period as applicable	2018-19 - 100000 mt 2019-20 - 100000 mt 2020-21 - 100000 mt 2021-22 - 100000 mt	2018-19 - 100000 mt 2019-20 - 100000 mt 2020-21 - 100000 mt 2021-22 - 46858.92 mt	Production details as per annual returns
3q	General remarks of inspecting officers on method of mining etc.	NA	NA	It was proposed to produce 100000 Metric tons of Limestone in the year 2021-22 but only 46859 Metric tons production achieved. Violation pointed out under rule 11(1) of MCDR 2017 during last mines inspection dtd 01.08.22.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No Proposals	Nil	In Present plan period Bund is proposed , No dump in proposal
4b	Location of topsoil, OB and mineral reject dumps	No Proposals	Nil	No top soil generation proposed, no mineral reject generation proposed, OB dumping not proposed

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4c	Number of dumps within lease area and outside of lease area	No dump Proposed in Plan Period	No dumps within ML area	Mine was opened from 20.07.2021
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not Proposed in Plan Period	Not applicable	
4e	Number of active and alive dumps.	No Proposals	Nil	Not Proposed in Plan Period
4f	Number of dead dumps.	No Proposals	No dead dumps in ML area	Mine opened from 20.07.2021
4g	Number of dumps established.	No Proposals	Nil	No dumps stabilised
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposals	Nil	No dumping proposals in 2021-22
4i	Length of Retaining wall or garland drain all along dumps	No Proposals	Nil	Nil
4j	Number of settling ponds	No Proposals	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	NA	NA	Mine opened from 20.07.2021 and no OB dumping proposed in approved plan period. Whatever, OB generation is proposed concurrently being used for bunds preparation.

Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No Proposals	Nil	Mine opened from 20.07.2021 and mine is under development
5b	Area under backfilling of mined out area	No Proposals	Nil	Mine opened from 20.07.2021 and mine is under development

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5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposals	Nil	No top soil generation proposed
5d	Total area fully reclaimed and rehabilitated	No Proposals	Nil	Mine opened from 20.07.2021 and mine is under development
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	NA	Mine opened from 20.07.2021 and mine is under development, hence scope of backfilling and reclamation is nowhere is exists.

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	Yes, submitted within time limit as per the provisions of Rule 26 of MCDR,2018	
6b	Area available for rehabilitation (ha) .	No Proposals	Nil	Nil
6c	afforestation done (ha).	No Proposals	370 saplings within ML area & 1107 saplings outside outside ML area planted	
6d	No. of saplings planted during the year	No Proposals	370 saplings within ML area & 1107 saplings outside outside ML area planted	
6e	Cumulative no .of plants	NA	NA	Details not available in approved document
6f	Any other method of rehabilitation	No Proposals	Nil	Nil
6g	Cost incurred on watch and care during the year	No Proposals	Nil	Nil

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6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No Proposals	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposals	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No Proposals	Nil	Nil
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
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No Proposals	Nil	Nil

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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	Mine opened on 20.07.2021 and is under development, hence scope of reclamation and rehabilitation doesnot exists presently.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Cement Grade - 1,00,000 Tones	Cement Grade - 46859 Tones	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines.	Not proposed	Not proposed	Nil
7d	Any beneficiation process at mines	Not proposed	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	NA	ROM mineral was proposed to dispatch for captive use. But, less production in the RY 2021-22.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposals	Nil	During the year 2021-22 no top soil generation proposals given

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8b	Concurrent use or storage of topsoil	No Proposals	nIL	During the year 2021-22 no top soil generation proposals given
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not Proposed in Plan Period	Nil	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposals	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposals	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	500 nos	Within lease area - 1150 - with 79% survival Outside lease area - 1107 - with 92% survival	
8g	Survival rate	NA	Within lease area - 1150 - with 79% survival Outside lease area - 1107 - with 92% survival	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling is proposed by water tanker	Regular water sprinkling is done by water tanker	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 not much satisfactory as plantation not done up to that extent because recently opened on 20.07.2021 and is under development.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	M.R. submitted upto- Oct-2022 A.R. submitted upto- 2021-22	Annual Return for the year 2021-22 submitted within time limit	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Shri Shri Kadiyala Gopi, Mining Eng and Shri Pushpendra Kumar Mishra, Geologist appointed under the provisions of Rule 55 of MCDR,2017	Both mining engineer and geologist were present during the inspection
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Excavation/pits - 0.439 ha Plants, buildings, Infrastructure etc. - 0.014 ha Others (Specify) Road & Green belt - 0.78 ha Total area put in use under different heads - 1.228 ha	
9d	Scrutiny of Annual return on afforestation	Given	370 No saplings in ML area 1107 nos of saplings planted outside ML area	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not Given	Nil	No mineral rejects generated
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	Cement Grade: O/S-Nil Despatch-46858.920 C/S-Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Ex-mine price: Cement Grade -Rs 196.95/MT	
9h	Scrutiny of Annual return on fixed assets	Given	Value of Fixed Assets Rs- 466964255	
9k	Scrutiny of Annual return on mining machineries	Given	Nil	Nil

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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