

INDIAN BUREAU OF MINES  
MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/NMC/LST-9

Mine code : 38MPR51004

- (i) Name of the Inspecting Officer and ID No. : N007 ) PUKHRAJ NENIVAL
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine Official with Designation : Shri S C Nigam, Agent, Shri M C Shrimali, Mine Manage
- (iv) Date of Inspection : 10-AUG-22
- (v) Prev. inspection date : 02-SEP-21

PART-I : GENERAL INFORMATION

1. (a) Mine Name : VIKRAM CEMENT LIMESTONE M
- (b) Registration NO. :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : MADHYA PRADESH  
District : NIMACH  
Village : NAYGAON, KESHARPURA  
Taluka : JAWAD  
Post office : KHOR  
Pin Code : 458470  
FAX No. :  
E-mail : subhash.nigam@aditya birla.com  
Phone :
- (f) Police Station : KHOR
- (g) First opening date : 04/08/2016
- (h) Weekly day of rest : SUNDAY
2. Address for correspondence : M/S ULTRATECH CEMENT LTD  
VIKRAM NAGAN POST - KHOR  
DISTT - NEEMUCH - 458470
3. (a) Lease Number :  
(b) Lease area : 564.106 Ha  
(c) Period of lease : 50 years  
(d) Date of Expiry : 30/11/2060
4. Mineral worked : LIMESTONE Main

6. Date of approval of Mining Plan/Scheme of Mining : MP review under 17(1) MCR 2016 10-DEC-19

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	There was a proposal of 31 & 50 nos. of core boreholes during the year 2020-21 & 2021-22 respectively (total 4643 mtrs.)	but only 08 nos. of core boreholes are dug.	Violation under rule 11(1) pointed out for exploration.
1b	Exploration over lease area for geological axis 1 or 2	There was a proposal of 31 & 50 nos. of core boreholes during the year 2020-21 & 2021-22 respectively (total 4643 mtrs.)	but only 08 nos. of core boreholes are dug.	Violation under rule 11(1) pointed out for exploration.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	B K Associates	B k Associates 5.15 Lakh	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Analysis of bore hole is under process, 218.3 ha converted in G-1,
1e	Balance reserve as on 01/04/20		Balanace reserve as on 31/03/22 111 36.45 121 - 122 4.29 Balanace resource as on 31/03/22 222 14.65 331 - 332 - 333 5.62	

1f	General remarks of inspecting officers on geology, exploration etc	Violation under rule 11(1) pointed out for exploration.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	North & South East (Block A & E)	South East (Only block E)	Development work not done as per proposal. Violation pointed out for same
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	
2c	Stripping ratio or ore to OB ratio	1:0.05	Nil	Violation pointed out for same
2d	Quantity of topsoil generation in m3	3100 CuM	Nil	Violation pointed out for same
2e	Quantity of overburden generation in m3	2778 CuM	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development work not done as per proposal. Violation pointed out for same

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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two Pit	Two Pit	

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3b	Quantity of ROM mineral production proposed	100000 Tonnes	64217 Tonnes	Production work not done as per proposal. Violation pointed out for same.
3c	Recovery of sailable/usable mineral from ROM production	Not proposed	Not applicable	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not proposed	Not applicable	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation		below threshold value	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized method	Mechanized method	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Not applicable	
3j	Provision of drilling and blasting in mineral benches	Deephole Drilling & Blasting	Deephole Drilling & Blasting	
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 - Sutaivable	Yes - Sutaivable	
3m	Total area covered under excavation/pits	3.09 ha	0.725 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.05	Nil	
3o	Total area put in use under different heads at the end of year	Excavation/pits - 3.09 ha Top soil storage - 0.80 ha Waste/Ob/IB dumps - 0.54 ha Mineral stacks - 00 ha Plants, buildings, Infrastructure etc. -0.49 ha Others (Specify) Road & Green belt - 6.43 ha	Excavation/pits - 0.725 ha Top soil storage - 00 ha Waste/Ob/IB dumps - 00 ha Mineral stacks - 00 ha Plants, buildings, Infrastructure etc. - 0.03 ha Others (Specify) Road & Green belt - 5 ha	
3p	Production of ROM mineral during the last five year period as applicable	2017-18 100000 Tonnes 2018-19 100000 Tonnes 2019-20 100000 Tonnes 2020-21 100000 Tonnes 2021-22 100000 Tonnes	2017-18 00 Tonnes 2018-19 5397 Tonnes 2019-20 22220 Tonnes 2020-21 00 Tonnes 2021-22 64217 Tonnes	
3q	General remarks of inspecting officers on method of mining etc.			Production work not done as per proposal. Violation pointed out for same.

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Solid Waste Management - Dumping:

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Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Nil	Nil	In Present plan period Bund is proposed , No dump in proposal
4b	Location of topsoil, OB and mineral reject dumps	Not proposed	Not applicable	
4c	Number of dumps within lease area and outside of lease area	Nil	Nil	In Present plan period Bund is proposed , No dump in proposal
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not applicable	Not applicable	
4e	Number of active and alive dumps.	Nil	Nil	
4f	Number of dead dumps.	Nil	Nil	In Present plan period Bund is proposed , No dump in proposal
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not applicable	Not applicable	In Present plan period Bund is proposed , No dump in proposal
4i	Length of Retaining wall or garland drain all along dumps	Not applicable	Not applicable	In Present plan period Bund is proposed , No dump in proposal
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management			In Present plan period Bund is proposed , No dump in proposal

#### 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.	No Backfill Proposed	No Backfill Proposed	Mine development is under progress
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Mine development is under progress

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Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Submitted before 30.06.2022	Submitted on 22.06.2022	
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	Nil	Nil	

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6f	Any other method of rehabilitation	Nil	Nil
6g	Cost incurred on watch and care during the year	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( L x B x D	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Nil	Nil
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	Nil	Nil

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.4 ha	0.4 ha	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantataion	Plantataion	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes proposed	Yes	Air, water & Noise monitoring is being carrying regularly
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP report submitted on 22.06.2022

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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 MT	Cement Grade - MT	64216.86
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 applicable	
7d	Any beneficiation process at mines	Not proposed	Not applicable	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	ROM mineral was proposed to dispatch for captive use. But, less production in the RY 2021-22.
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**Environment:**


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Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	It was proposed to remove 3100 M3 of top Soil in the year 2021-22 but nil top soil is removed as per office record	Violation pointed out for same.
8b	Concurrent use or storage of topsoil	Nil	Used for plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not proposed	Not applicable	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	Not application	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	Not applicable	

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8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		Within lease area - 1150 - with 79% survival Outside lease area - 1107 - with 92% survival	
8g	Survival rate		Within lease area - 1150 - with 79% survival Outside lease area - 1107 - with 92% survival	
8h	Water sprinkling on roads to control airborne dust	Yes proposed	As per Proposal (water tanker , water sprinkling, wet drilling,)	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation observed in the waste land and statutory barrier zone of 7.5m.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		M.R. Submitted for the month July' 22 A.R. submitted for the year 2021-22	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Mining Engineer - Mr. Mahesh chandra Shrimali Geologist - Ratikanta Behera	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Excavation/pits - 0.725 ha Top soil storage - 00 ha Waste/Ob/IB dumps - 00 ha Mineral stacks - 00 ha Plants, buildings, Infrastructure etc. - 0.03 ha Others (Specify) Road & Green belt - 5 ha	

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9d	Scrutiny of Annual return on afforestation	Within lease area - 1150 - with 79% survival Outside lease area - 1107 - with 92% survival
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing stock Nil reported in AR
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex Mine price - Rs 236.13/-
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets - Rs 466964255/-
9k	Scrutiny of Annual return on mining machineries	SHOVEL (HYDRAULIC) 1.000 CUM - 01 nos TIPPER 6702 cum - 02 nos BLAST HOST DRILL 115. mm -01 nos WATER TANKER 15000 litre -01 nos

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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
MCDR17	Rule 11(1)	09-SEP-22			

**Date :**

**(PUKHRAJ NENIVAL)**

Indian Bureau of Mines