

**INDIAN BUREAU OF MINES  
MINERALS DEVELOPMENT AND REGULATION DIVISION**

**Review and updation of Mining Plan REPORT**

**Jabalpur regional office**

**Mine file No :** MP/SATNA/LST.374

**Mine code :** 38MPR35351

- (i) Name of the Inspecting : **K006** ) **NARESH KUMAR KATARIYA**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : S/Sh PK Upadhayay (Agent), SN Tiwari ( Mine Manager),  
Official with  
Designation
- (iv) Date of Inspection : 28-OCT-20
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **ARGAT LST MINE 363.07 HA**
- (b) **Registration NO.** : **IBM/441/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address  
State : MADHYA PRADESH  
District : SATNA  
Village : ARGAT JHOPA BIJURI  
Taluka : RAMNAGAR  
Post office : RAMNAGAR  
Pin Code : 485881  
FAX No. : 7802-276701  
E-mail : pratyendra.upadhyay@aditya  
Phone : 7802-276701-10
- (f) Police Station : Ramnagar
- (g) First opening date : 10-DEC-18
- (h) Weekly day of rest : SUN
2. Address for : Aditya Vihar, Post: Bharatpur  
correspondance Rampur Naikin,  
Sidhi (MP)-486776
3. (a) Lease Number :  
(b) Lease area :  
(c) Period of lease :  
(d) Date of Expiry :
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : ULTRATECH CEMENT LIMITED  
SIDHI CEMENT WORKS.VILL.  
MAJHIGAWAN PO BHARATPUR  
DISTT. SIDHI SIDHI MADHYA  
PRADESH  
Phone:  
FAX :

Owner : ULTRA TECH CEMENT LTD.  
UNIT- BIRLA WHITE, D7,  
SHASHI NAGAR JODHPUR  
(RAJASTHAN) 342003 JODHPUR  
RAJASTHAN  
Phone:  
FAX :

Agent : P K UPADHYAYA  
SIDHI MADHYA PRADESH  
Phone:  
FAX :

6. Date of approval of Mining : MP modif under 17(3) MCR 2016 27-DEC-19  
Plan/Scheme of Mining

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NA	NA	
1b	Exploration over lease area for geological axis 1 or 2	62 BOREHOLES	40 BOREHOLES	The violation has already been rectified and pending boreholes are incorporated in the proposal year 2021-22 in the subsequent RMP document approved on 24.12.2020.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	M/s B.K. Associates and M/s M/s Central Drilling Associates.	M/s B.K. Associates and M/s M/s Central Drilling Associates carried out exploration during 2019-20. Total expenditure : Rs. 20,27,585/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1: 363.070 Ha.	G1: 24.06 ha G2: 185.37 ha G3: 5.92 ha	209.26 ha is required to be explored in G1. The violation has already been rectified and pending boreholes are incorporated in the proposal year 2021-22 in the subsequent RMP document approved on 24.12.2020. Proposal of 62 core boreholes has been given in the approved document to explore the remaining area in G-1 axis.
1e	Balance reserve as on 01/04/20		Balance Reserve as on 01.04.2020: 15.84 MnT	

1f	General remarks of inspecting officers on geology, exploration etc	The limestone of Argat ML area belongs to Rohtas Stage of Semri Series of Lower Vindhyan System of Indian Stratigraphy. The regional strike of limestone deposit is ENE-WSW with a northerly dip varying from 10-15 degree into the hills.
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## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit no. 01: E 523389 to 524090 & N 2685914 to 2686294	Pit no. 01: E523663 to E524051 & N2685942 to N2686294	Mine development was lagging from the proposal. The violation has already been rectified and lagging in development location has been rectified in the latest approved document dated 24.12.2020.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top soil-0, Over burden-1, Ore -1	Top soil-0, burden-1,	Over Ore -1
2c	Stripping ratio or ore to OB ratio	1:0.69	1:1.24	
2d	Quantity of topsoil generation in m3	5250	5080	
2e	Quantity of overburden generation in m3	0.38 m3	0.12 m3	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Mine development was lagging from the proposal. The violation has already been rectified and lagging in development location has been rectified in the latest approved document dated 24.12.2020.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	900007 Tonnes	153979 Tonnes	
3c	Recovery of sailable/usable mineral from ROM production	NA	NA	
3d	Quantity of mineral reject generation	NA	NA	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	NA	NA	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA	

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3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA
3j	Provision of drilling and blasting in mineral benches	YES	YES
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	YES	YES
3m	Total area covered under excavation/pits	7.62 Ha.	6.99 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.69	1:1.24
3o	Total area put in use under different heads at the end of year	35.72 Ha.	8.378 ha
3p	Production of ROM mineral during the last five year period as applicable	2016-17: 0 2017-18: 0 2018-19: 400000 2019-20: 900007	2016-17: 0 2017-18: 0 2018-19: 0 2019-20: 153979
3q	General remarks of inspecting officers on method of mining etc.		Mining operation are being carried out by Opencast fully mechanised method. The formation of benches in limestone and in OB separately as far as possible.

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	Yes	
4b	Location of topsoil, OB and mineral reject dumps	E 523708 to E 523760, N 2686438 to N 2686515 & E 523768 to E 524270 N 2686200 to N 2686607	E 523766 to E 524273, N 2686200 to N 2686460	Location of mine development is lagging from the proposal. Violation is already rectified and incoporated in the document approved on 27.12.2020.
4c	Number of dumps within lease area and outside of lease area	One dump within lease area	One dump within lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	out side the UPL	out side the UPL	
4e	Number of active and alive dumps.	One	One	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dumps	RW: 930m RW: 1464m	RW: 0 GD: 1060m	The violation has already been rectified and incoporated in the document on 24.12.2020.
4j	Number of settling ponds	One	One	

4k	Specific comments of inspecting officer on waste dump management	Location of mine development was lagging from the proposal. Construction of retaining wall and garland drain also affected. Violation is already rectified and incorporated in the document approved on 27.12.2020.
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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.	full extraction of mineral from mined out area before starting backfilling	Mineral not fully extracted.	
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.			Area not matured for backfilling.

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Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes	Yes
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
6f	Any other method of rehabilitation	Not proposed	NA
6g	Cost incurred on watch and care during the year	NOT PROPOSED	NA
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx 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	2500 Nos. saplings	2500 Nos. saplings	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	1.0 Ha. By plantation	1.0 Ha. By plantation	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	By plantation	By plantation	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Within Permissible limits	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP compliance found as per proposal.

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**Mineral Conservation:**


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Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch	ROM mineral dispatch	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not proposed	NA	
7c	Different grade of mineral sorted out at mines.	NA	NA	
7d	Any beneficiation process at mines .	NA	NA	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM mineral directly dispatched to captive cement plant.

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**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes	
8b	Concurrent use or storage of topsoil	Storage of top soil for plantation	Storage of top soil for plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	

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8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Yes	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2500 plants	2500 plants	
8g	Survival rate	>80%	>80%	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation has been done in the waste land and barrier zone. Mined out area not matured for backfilling and plantation.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Monthly returns and Annual Returns submitted for the RY 2019-20 in time.	

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	Name of the Mining Engineer, Geologist and Manager Manager: S.N Tiwari Geologist: Amit Kumar Mishra M.E: G Satya Sundar
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	Total land used 8.378 hect.
9d	Scrutiny of Annual return on afforestation	Yes	Afforestation done in 1.0 Hect. waste land
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	153979 Tonnes
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	Sale value,- 0 (Captive use) Ex-Mine price - Rs.248.90/tone Production costs- Rs.248.90/tone
9h	Scrutiny of Annual return on fixed assets	Yes	As per AR. Estimated market value INR 2294262424/-

9k	Scrutiny of Annual return on mining machineries	Yes	SHOVEL (HYDRAULIC) 2.600 CUM 1 Non Electrical TIPPER 12.000 CUM 8 Non Electrical ROCK DRILL (NON- ELEC.)100.000 MM 1 Non Electrical EXPLOSIVE VAN 7.000 TONNE 1 Non Electrical DOZER 301.000 HP 1 Non Electrical WATER TANKER 12000.000 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

**Date :**

**(NARESH KUMAR KATARIYA)**

Indian Bureau of Mines