

**Mining Plan Modification REPORT**

**Jabalpur regional office**

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

**Mine code :** 38MPR35351

- (i) Name of the Inspecting : **SQ25** ) **IBRAHIM SHARIEF**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri Bharat Gokhuru (Agent), Shri A T Shinde (Mines Manager)  
Official with : and Shri Vikas Tiwari (Geologist)  
Designation
- (iv) Date of Inspection : 23-JUL-22
- (v) Prev.inspection date : 21-NOV-19

**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 : 363.070
- (c) Period of lease : 50 Years
- (d) Date of Expiry : 19.01.2061
4. Mineral worked : LIMESTONE Main

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## 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	:	MP review under 17(1) MCR 2016	24-DEC-20

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	62 BH	7 BH	Violation was pointed out.
1b	Exploration over lease area for geological axis 1 or 2	Entire potential mineralised area (226.735 Ha) to be explored in G1 scale	66.021 Ha area is explored in G1 scale.	Proposal is given to explore the balance area in G1 scale in the submitted modified mining plan.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee	Lessee	
1d	Balance area to be explored to bring Geological axis in 1 or 2		Total Area=363.070 Ha G1=66.021 ha G2= 273.901Ha G3= 5.142 Ha Unexplored=17.97 ha	Proposal is given to explore the balance are in G1 scale.
1e	Balance reserve as on 01/04/20	111- 11.145 MnT {121+122}- 26.233 MnT	111- 11.145 MnT {121+122}- 26.233 MnT	
1f	General remarks of inspecting officers on geology, exploration etc		In the leasehold area proper, the valley area is under a cover of soil with scree materials. The limestone of Rohtas Stage and the overlying Kaimur quartzite/sandstone are the only litho-units which can be observed on the spurs formed along the hill slopes of Kaimur Hill. No Geological Structure found in the lease area. The Limestone Deposit is Flatty Bedded Type. The Limestone deposit belongs to the semri group rohtas formation of Vindhyan Super group.	Lease area of about explored in majority in G2 scale - 273.9 Ha, G3 5.142 Ha , out of which 118.365 Ha is non mineralised area remaining area to be explored in G1 scale, Proposals are given in the modified mining plan to complete the same.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Pit 1: E523388- E524090 N2685910- N268629	Pit 1: E523477-523672 N2686183- 2686129	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Pit 1: Benches is proposed as below Top soil-0 Overburden-1  Ore -3	Pit 1: Seperates benches are found maintained as below. Top soil-0 Overburden-1 Ore -3	
2c	Stripping ratio or ore to OB ratio	1:0.46	1:0.31	
2d	Quantity of topsoil generation in m3	3750 M3	3700 M3	
2e	Quantity of overburden generation in m3	273873 M3	223714 Tonn	Less development due to less demand of Limestone
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development is being cgarried out as proposed.

## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	1200000 Tonnes	718304 Tonnes	Due to less demand of cement
3c	Recovery of sailable/usable mineral from ROM production	No proposal	100%.	
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Not applicable	

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3f	Quantity of sub grade mineral generation.	No proposal	Nil	
3g	Grade of sub grade mineral generation	No proposal	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal of segregation of mineral from ROM	Nil	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	No study carried out.	
3j	Provision of drilling and blasting in mineral benches	Deep Hole Drilling & Blasting is proposed for mineral excavation	Deep Hole Drilling & Blasting is being practised	
3k	Provision of mining machineries in mineral benches	Excavator- (3.5 cum) - 2 No., (2.1 cum) -2 No., Dumper- 25 T- 20 No., Drilling Machine with Compressor- 1 No., Water Tank-1 No., Road Grader-1	Excavator- (3.5 cum) - 2 No., (2.1 cum) -2 No., Dumper- 25 T- 20 No., Drilling Machine with Compressor- 1 No., Water Tank-1 No., Road Grader-1 is deployed as proposed.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes 6 mtr bench height proposed is suitable for machineries deployed	Yes Suitable.	
3m	Total area covered under excavation/pits	4.79 Ha.	1.724 Ha	During the year
3n	Ore to OB ratio for the pit/mine during the year.	1:0.46	1:0.31	
3o	Total area put in use under different heads at the end of year	17 Ha.	16.314 ha	

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

2019-20:	2019-20:	153979
900007	2020-21:	639595
2020-	2021-22:	718304
21:1200003		
2021-22:		
1200000		

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

Mechanised method of mining with deep hole drilling and blasting is being practised by maintaining bench height of 6 meters and width more than the height.

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes, seperate dump for waste and top soil is proposed	Seperate Top Soil and Waste dump is maintained.	
4b	Location of topsoil, OB and mineral reject dumps	E 523797 to E 524061, N 2686294 to N 2686390	E 523797 to E 524061, N 2686294 to N 2686390	
4c	Number of dumps within lease area and outside of lease area	01	01	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL	Within UPL	
4e	Number of active and alive dumps.	Active-01	Active-01	
4f	Number of dead dumps.	no proposal	Nil	
4g	Number of dumps established.	No proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes orioised to maintain retaining wall all along waste dump	No maintained	Violation was pointed out and lessee has complied.
4i	Length of Retaining wall or garland drain all along dumps	RW: 689m	RW:200m	Violation was pointed out and lessee complied.

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4j	Number of settling ponds	01	01	
4k	Specific comments of inspecting officer on waste dump management			Violation was pointed out regarding waste dump management, lessee complied the violation.

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

## 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).	Yearly annual report on PMCP to be submitted	Yes submitted.	
6b	Area available for rehabilitation (ha) .	no proposal	Nil	

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6c	afforestation done (ha).	1.0 ha	1.0 Ha
6d	No. of saplings planted during the year	2500	2500
6e	Cumulative no .of plants	No proposal	About 95000 plants
6f	Any other method of rehabilitation	Not in Proposal	Nil
6g	Cost incurred on watch and care during the year	Not in Proposal	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Not in Proposal	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not in Proposal	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Not in Proposal	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not in Proposal	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not in Proposal	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not in Proposal	Nil



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6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not in Proposal	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not in Proposal	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Air, Water and Noise monitoring is to be carried out at regular interval	Air, Water and Noise monitoring is carried out and results are within permissible limit	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Afforestation is being carried out in the lease area to improve aesthetic beauty

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**Mineral Conservation:**

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM produced is to be dispatch	718308 Tonnes dispatched during the year.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	Nil	
7c	Different grade of mineral sorted out at mines.	No proposal	Nil	
7d	Any beneficiation process at mines .	No such proposal	Nil	

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7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Entire ROM generated is being utilised for manufacturing Cement.
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## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes there is proposal to remove and stack the top soil generated	TOp soil is being removed separately and stacked in earmarked place.	
8b	Concurrent use or storage of topsoil	No proposal	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes Seperate dump for waste is to be maintained	Seperate dumps are maintained.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Additional plantation of 2500 sapplings to be planted in the lease area	2500 sapplings are planted in the lease.	
8g	Survival rate	No proposal	about 80%	

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8h	Water sprinkling on roads to control airborne dust	Water sprinkling arrangements is to be made to suppress the dust arising out of mine raods	Dust suppression arrangements is found in the lease area
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Plantation is being carried out to improve aesthetic beauty, dust suppression arrangements to suppress the air bourn dust.

## Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and Annual returns to be submitrtd in time	Monthly and Annual returns are being submitted in time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Shri Brijesh Kumar Sharma, Mining Engineer, Shri Vikas Tiwari, Geologist are employed	Both are employed for the mine as Mining engineer and Geologist	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(i) Covered under current (O/C) Workings- 12.784 Ha, (ii) Used for waste disposal- 3.241 Ha, (iii) Occupied by plant, buildings, residential, welfare buildings & roads- 0.06 Ha, (iv) Other Purpose (Garland Drain, Settling Pond)- 0.229 Ha	(i) Covered under current (O/C) Workings- 12.784 Ha, (ii) Used for waste disposal- 3.241 Ha, (iii) Occupied by plant, buildings, residential, welfare buildings & roads- 0.06 Ha, (iv) Other Purpose (Garland Drain, Settling Pond)- 0.229 Ha	

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9d	Scrutiny of Annual return on afforestation	2500	2500 sapplings planted in the lease area
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	ROM- Nil, Graded Ore- Nil	ROM- Nil, Graded Ore- Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex Mine Price- and Cost of Production - Rs. 371.45,	Ex Mine Price- and Cost of Production - Rs. 371.45,
9h	Scrutiny of Annual return on fixed assets	Rs. 2413738858/-	As furnished by Lessee
9k	Scrutiny of Annual return on mining machineries	SHOVEL (HYDRAULIC)- (3.5 cum)-2, SHOVEL (HYDRAULIC)- (2.1 cum)-2, Dumper- 25 T- 20, Rock Drill- 152 mm- 1, MOTOR GRADER-1,	SHOVEL (HYDRAULIC)- (3.5 cum)-2, SHOVEL (HYDRAULIC)- (2.1 cum)-2, Dumper- 25 T- 20, Rock Drill- 152 mm- 1, MOTOR GRADER-1,

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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)	27-SEP-22	27-OCT-22			
MCDR17 Rule 19(1)	27-SEP-22	27-OCT-22			
MCDR17 Rule 26(2)	27-SEP-22	27-OCT-22			
MCDR17 Rule 45(7) (a	27-SEP-22	27-OCT-22			

Date :

(IBRAHIM SHARIEF)

Indian Bureau of Mines