

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

**MCDR inspection REPORT  
Jabalpur regional office**

**Mine file No :** MP/DHAR/LST-59

**Mine code :** 38MPR12075

- (i) Name of the Inspecting : **SQ23** ) **SANDEEP KUMAR SINGH**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :  
Official with  
Designation
- (iv) Date of Inspection : 22-DEC-20
- (v) Prev.inspection date : 17-JUL-19

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **SITAPURI LIMESTONE MINE**
- (b) **Registration NO.** : **IBM/441/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : MADHYA PRADESH  
District : DHAR  
Village : SITAPURI  
Taluka : MANAWAR  
Post office : MANAWAR  
Pin Code : 454446  
FAX No. : 02266917800  
E-mail : ajit.ostwal@adityabirla.co  
Phone : 02266928109
- (f) Police Station : MANAWAR
- (g) First opening date : 29-SEP-17
- (h) Weekly day of rest : SUN
2. Address for : B-WING, AHURA CENTRE, SECOND FLOOR  
correspondance MAHAKALI CAVES ROAD ANDHERI EAST  
MIDC MUMBAI -400093
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 : M/S ULTRATECH CEMENT LIMITED  
NAYAGAON KANKA KHOR  
VILLAGES KHOR POST JAWAD  
TAHSIL NIMACH MADHYA  
PRADESH  
Phone:07420230109  
FAX :07420235524

Owner : OMPRAKASH PURANMALKA  
B-WING, AHURA CENTRE, SECOND  
FLOOR MAHAKALI CAVES ROAD,  
ANDHERI EAST MIDC MUMBAI  
DHAR MADHYA PRADESH  
Phone: 02266917800  
FAX : 02266928109

Agent : VIJAY CHABRA  
DHAR CEMENT WORKS, VILLAGE  
TONKI, TEH. MANAWAR, DISTT.  
DHAR MP DHAR MADHYA PRADESH  
Phone: 9090099501  
FAX : 7294233668

6. Date of approval of Mining Plan/Scheme of Mining : MP review under 17(1) MCR 2016 26-DEC-18

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	Nil	Nil	No Proposal in 2019-20
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	No Proposal in 2019-20
1d	Balance area to be explored to bring Geological axis in 1 or 2	22.65 Ha	Nil	No Proposal in 2019-20
1e	Balance reserve as on 01/04/20		122 mio Ton	
1f	General remarks of inspecting officers on geology, exploration etc			No Exploration Proposal for the Year 2019-20.limestone of this area belongs to bagh beds formation.limestone is mainly coralline and nodular limestone.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Easting: 511806 to 512520 Northing: 2470276 to 2470843	Easting: 511873 to 512482 Northing: 2470314 to 2470813	Within the Proposed area
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	YES	YES	OB-1 bench Mineral-2 benches

2c	Stripping ratio or ore to OB ratio	1:0.16	1:0.1	
2d	Quantity of topsoil generation in m3	90,000 CUM	20,028 CUM	
2e	Quantity of overburden generation in m3	1,90,000 CUM	75,584 CUM	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Average Height of mineral bench: 6-8 m Average Height of OB bench: 2 m.

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#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	3660000 MT	2532857 MT	
3c	Recovery of sailable/usable mineral from ROM production	NO	NO	ROM
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	NIL	NIL	
3g	Grade of sub grade mineral generation	NA	NA	

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3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA	
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	Done, 115 mm Dia
3k	Provision of mining machineries in mineral benches	YES	YES	List of machineries enclosed separately
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	86.94 Ha.	31.324 Ha.	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.16	1:0.10	
3o	Total area put in use under different heads at the end of year	Area under Mining: 86.94 ha. Waste Dump: 2.93 ha. Infrastructure : 2.76 ha. Roads: 3.70 ha.	Area under Mining: 31.324 ha. Waste Dump: 1.780 ha. Infrastructure: 0.775 ha. Roads: 7.019 ha.	

3p	Production of ROM mineral during the last five year period as applicable	2018-19 36.60 Lac MT Mine was opened on 29-07-2017 2019-20 36.60 Lac MT 25.32 Lac MT	2018-19 36.60 Lac MT Mine was opened on 29-07-2017 2019-20 36.60 Lac MT 25.32 Lac MT	Mine was opened on 29-07-2017
3q	General remarks of inspecting officers on method of mining etc.			Mine was developed in mechanized benches of 2mtr and two benches of 6-8 mtr.

#### 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, being done	
4b	Location of topsoil, OB and mineral reject dumps	Easting: 511094 to 511510 Northing: 2470539 to 2471032	Easting: 511084 to 511243 Northing: 2470529 to 2470668	No mineral reject
4c	Number of dumps within lease area and outside of lease area	2	2	Within ML area; OB waste dump (OB and topsoil temporary dump).
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side	Out side	Temporary waste dump
4e	Number of active and alive dumps.	2	2	
4f	Number of dead dumps.	NA	NA	
4g	Number of dumps established.	2	2	

4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Partly/yes	Garland drain and retaining wall provided along soil dump. was missing on some sides.
4i	Length of Retaining wall or garland drain all along dumps	150 mtrs	120 mtrs	Drain was missing for some part of dump.violation given.
4j	Number of settling ponds	02	03	
4k	Specific comments of inspecting officer on waste dump management			Drain was found missing along soil dump and limestone stock in mines.violation given.

#### 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.	yes	done	
5b	Area under backfilling of mined out area	NIL	0.62 Ha.	Backfilling Preparatory work started.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Store and Utilization	Done	Top soil was used for green belt development
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			0.62 Ha. area is already backfilled. Backfilling proposal is from year 2020-21.

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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).	Yes	Yes	Submitted on 12-05-2020 vide letter no. UTCL/DCW/MINES/IBM /2020/131
6b	Area available for rehabilitation (ha) .	No Proposal	No Proposal	
6c	afforestation done (ha).	No Proposal	No Proposal	
6d	No. of saplings planted during the year	No Proposal	No Proposal	
6e	Cumulative no .of plants	No Proposal	No Proposal	
6f	Any other method of rehabilitation	No Proposal	No Proposal	
6g	Cost incurred on watch and care during the year	No Proposal	No Proposal	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No Proposal	No Proposal, some area has been prepared and backfilling started. (0.62 Ha)	Backfilling will be done in 20-21
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Afforestation for 3000 nos. of saplings over 2.00 Ha Area	Afforested 5865 nos. of saplings over 1.50 Ha. area	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Done	

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6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Plantation done in green belt, outside UPL (50m canal barrier.)
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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	ROM	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	
7c	Different grade of mineral sorted out at mines.	NA	NA	
7d	Any beneficiation process at mines .	NO	NO	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM (average CaO: 42% & average SiO <sub>2</sub> : 13%) mined is supplied to Plant.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	yes	yes	

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8b	Concurrent use or storage of topsoil	Storage and Utilization	Stored and Utilized	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	yes	yes	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes, In future	Started. Also continued in FY 2020-21	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	yes	yes	Backfilling planning in next year of Plan period
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	3000 nos. of Saplings	5860 Saplings were planted in the year 2019-20	
8g	Survival rate	80%	80.71%	
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 done in green belt, outside UPL (50m canal barrier.)the area covered in plantation was less.violation was pointed out.

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## Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Yes (Annual Return) Yes (Monthly Returns)	Submitted in time. Annual Return was submitted on 09.06.2020
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Mining Engineer: Mr. Subhash Chandra Nigam  Geologist: Mr. Rajendra Tiwari	Notice of appointment were sent .
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Pit Area: 31.324 Ha.  Backfilled Area: 0.62 Ha.  Dump (O.B): 1.780 Ha.  Infrastructure with roads: 7.774 Ha.  Green Belt: 8.353 Ha.	Within fA limits.
9d	Scrutiny of Annual return on afforestation		5865 saplings were planted over 1.50 Ha. area in 2019-20	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)		NA, No mineral reject.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore		ROM Stock as on 31-03-2020: 2,87,224 MT	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		Sale Value: NA Ex-Mine Price: 190.98 Rs/MT	
9h	Scrutiny of Annual return on fixed assets		Fixed Assets: Rs. 221.41 core	

9k	Scrutiny of Annual return on mining machineries	Backhoe Excavator Tata Hitachi ZX-650H 3.5 cu.mtr. 4nos, Backhoe Excavator- Komatsu PC-300-2.1 cu.mtr.-1nos Dumpers Caterpillar 40 MT 11nos, Ripper Dozer Komatsu 605 HP 1ns., Dozer Liugong 340 HP 1nos, Drill Machine- Sandvik & Atlas Copco 115 MM 2nos	list of mining machineries in use is given.
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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
MCDR17	Rule 11(1)	22-APR-21	11-MAY-21				

**Date :**

**(SANDEEP KUMAR SINGH)**

Indian Bureau of Mines