

**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 : **KQ06**) **NARESH KUMAR KATARIYA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri Omprakash Khelkar, Shri Naval Kishore Sharma, Sh
Official with
Designation
- (iv) Date of Inspection : 17-SEP-21
- (v) Prev.inspection date : 22-DEC-20

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.cor
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	54	03 Borehole (76 m)	As per approved modification in mining plan proposal of exploration is proposed in FY 2021-22. During the inspection, it was observed that the core samples of boreholes were not kept systematically. Violation under rule 63(1) of MCDR is pointed out for the same.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Specified	Khanna Associated & Tapan Kumar Bid & Rupees 257.70 Lakh in 2017-18 United Exploration India Pvt. Limited & Rupees 1.78 Lakh in 2021-22	
1d	Balance area to be explored to bring Geological axis in 1 or 2	22 Ha	Nil	Proposal in 2021-22 to bring the G3 area in G1 category. As per approved modification in mining plan proposal of exploration is carry forwarded in FY 2021-22
1e	Balance reserve as on 01/04/20		Balance Reserve as on 01.04.2021 - 119 Million Tons 111- 113.0 Million Tons 122- 6.0 Million Tons	

1f	General remarks of inspecting officers on geology, exploration etc	Limestone deposit is simple sedimentary bedded type and no structural/ tectonic disturbance observed. The Bagh Beds are commercial significance as they mainly comprise of Coralline Limestone, Nodular Limestone, Calcareous clay and upper Clay, eminently suitable for Lime and Cement manufacturing The lithological is found Basalt, Quartzitic Sandstone, Upper clay, Coralline limestone, Calcareous clay, Nodular limestone, Shale, Nimar Sandstone, Granit, The Deposit is almost Horizontal in nature with
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Easting: 511758 to 512482 Northing: 2470248 to 2470936	Easting: 511759 to 512508 Northing: 2470265 to 2470958	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	1:0.29	1:0.09	
2d	Quantity of topsoil generation in m3	150000 CUM	17,811 CUM	During the year 2020-21, it was proposed to generate 0.15 million m3 top soil for mine development. But, only 0.018 million m3 top soil generated. The stripping ratio is distorted due to lagging in mine development. Violation pointed out under rule 11(1) of MCDR-2017.
2e	Quantity of overburden generation in m3	290000 CUM	44832 CUM	During the year 2020-21, it was proposed to generate 0.29 million m3 overburden for mine development. But, only 0.045 million m3 overburden generated. The stripping ratio is distorted due to lagging in mine development. Violation pointed out under rule 11(1) of MCDR-2017.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	During the year 2020-21, it was proposed to generate 0.15 million m3 top soil and 0.29 million m3 overburden for mine development. But, only 0.018 million m3 top soil and 0.045 million m3 overburden generated. The stripping ratio is distorted due to lagging in mine development.
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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	36,60,000 MT	26,89,184 MT	
3c	Recovery of sailable/usable mineral from ROM production	Not proposed	ROM directly dispatched to captive plant.	
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	

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	1 DX 800 DRILL OF SANDWIK MAKE AND 1 IBH DRILL OF ATALAS COPCO BOTH OF 115 mm Dia
3k	Provision of mining machineries in mineral benches	Yes	Yes	4 NOS OF ZX 650 OF TATA HITACHI MAKE- 3.5 M3 11 NOS OF CATER PILLAR DUMPER - 35 TONNES 2 no's of Dozers
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	44.90 ha	41.702	Area covered under excavation up to 31/03/2021
3n	Ore to OB ratio for the pit/mine during the year.	1:0.25	1:0.04	The stripping ratio is distorted due to lagging in mine development. Violation pointed out under rule 11(1) of MCDR- 2017.

3o Total area put in use under different heads at the end of year

Area Under Mining: 44.90	Area Under Mining: 41.702 Ha.
Waste Dump: 2.93	Top soil Dump: 1.937 Ha.
Infrastructure : 2.76	Infrastructure: 7.774
Roads: 3.70	Roads: 4.812 Ha.

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

2020-21	2020-21	26,89,184 MT
3660000 MT	2019-20	25,32,857 MT
2019-20	2018-19	26,01,287 MT
3660000 MT	2017-18	2,37,265 MT
2018-19	2016-17	NIL
3660000 MT		
2017-18		
3660000 MT		
2016-17		
2760000 MT		

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

Fully mechanised O/C method.

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	Easting: 511097 to 511243 Northing: 2470539 to 2470774	Easting: 511084 to 511243 Northing: 2470529 to 2470668	No mineral reject
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 temporary dump	Out side the UPL temporary dump	
4e	Number of active and alive dumps.	One	One	Temporary top soil dump
4f	Number of dead dumps.	No	No	
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	Retaining wall -150	Retaining wall -150	
4j	Number of settling ponds	NIL	04	
4k	Specific comments of inspecting officer on waste dump management			Waste management is being done by backfilling

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, Full extraction of mineral	Yes, Full extraction of mineral is being done before starting backfilling as per provided records.	

5b	Area under backfilling of mined out area	3.9 ha	1.62 Ha.	Ob not available for Backfilling due to less OB generation. Violation is pointed out under rule 11(1) of MCDR-2017.
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.			Backfilling of 3.9 Hect area was proposed as per approved document. But, only 1.62 Hect area was backfilled against the proposal. Violation is pointed out under 11(1) of MCDR-2017.

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 20-05-2021
6b	Area available for rehabilitation (ha) .	Not Proposed	Not applicable	
6c	afforestation done (ha).	Not Proposed	Not applicable	

6d	No. of saplings planted during the year	Not Proposed	Not applicable	
6e	Cumulative no .of plants	Not Proposed	Not applicable	
6f	Any other method of rehabilitation	Not Proposed	Not applicable	
6g	Cost incurred on watch and care during the year	Not Proposed	Not applicable	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	265X145X8.7 m3	Voids available for backfilling as per proposal.	Backfilling of 3.9 Hect area was proposed as per approved document. But, only 1.62 Hect area was backfilled against the proposal. Violation pointed out for the same under rule 11(1) of MCDR-2017.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Backfilling of 3.9 Hect area	Total 1.62 ha. Area is backfilled.	Backfilling of 3.9 Hect area was proposed as per approved document. But, only 1.62 Hect area was backfilled against the proposal. Violation pointed out for the same under rule 11(1) of MCDR-2017.
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Not proposed	Not proposed	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	Not proposed	

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed	Not proposed	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	3000 2.00 Ha Green Belt development	3000 2.00 Ha. Green Belt development	Along 7.5 ML boundary
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not proposed	Not done	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not proposed	Not done	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Environmental monitoring is being done as per approved proposal.	4 station within ML area as well as 4 station in buffer zone
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP report submitted on dated 02/05/2021

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral to be dispatched to captive plant directly.	ROM- 2689184 (MT) Dispatch - 2858788 (MT) Stock - 117620 (mT)	CaO: 41.88% SiO2: 12.95%

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 mineral to be dispatched to captive plant directly. No mineral rejects as per available records.

Environment :

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes	
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, Using for backfilling	Started backfilling	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Yes	Phased restoration of lands affected by mining operation is started by backfilling. Plantation is not started in the backfilled area.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	3000 nos. of Saplings	3000 Saplings were planted in this year	
8g	Survival rate	80%	97.70%	
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			Phased restoration of lands affected by mining operation is started by backfilling. Plantation is not started in the backfilled area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Monthly return submitted for the year 2020-21 in time. Annual return for the yr 2020-21 is submitted on 24/05/2021	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	Mining Engineer: Mr. Omprakash Khelkar Geologist: Mr. Rajendra Tiwari	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	Pit Area: 41.702 Ha Backfilled Area: 1.62 Ha. Dump (O.B): 1.937 Infrastructure with roads: 7.774
9d	Scrutiny of Annual return on afforestation	Yes	Green Belt: 10.35 Ha. 3000 saplings were planted over 2.00 Ha. Area
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Yes	NA, No mineral reject
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	ROM Stock 117620 MT
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	As per AR
9h	Scrutiny of Annual return on fixed assets	Yes	Fixed assets are 241.00 crores as per submitted AR.
9k	Scrutiny of Annual return on mining machineries	Yes	Mining Machineries as per AR

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)	04-OCT-21			

Date :

(NARESH KUMAR KATARIYA)

Indian Bureau of Mines