

**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 : **SQ05** ) **DEEPAK SHARMA**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine :  
Official with  
Designation
- (iv) Date of Inspection : 17-JUL-19
- (v) Prev.inspection date :

**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	Exploration was not proposed	NIL	
1b	Exploration over lease area for geological axis 1 or 2	G1-775.43 (already explored) G2-84.99	G1-775.43 (already explored) G2-84.99	No exploration proposed.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	M/s Khanna Associates under contract of UTCL	M/s Khanna Associates under contract of UTCL	Expenditure not mentioned in the approved mining plan
1d	Balance area to be explored to bring Geological axis in 1 or 2	G2-84.99	G2-84.99	
1e	Balance reserve as on 01/04/20	As on 1.04.2018 111-120.01 122-5.96	111-117.40 122-5.96	
1f	General remarks of inspecting officers on geology, exploration etc			The limestone of the lease area, belong to bagh beds formation, limestone of the lease area mainly of coralline limestone and nodular limestone.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It was proposed to advance the development in between grid E 511806 to E 512520 and N 2470276 and N 2470843	The actual advancement of the development is in between grid E 511780 to E 512500 and N 2470200 and N 24708400	Development is as per the proposal given in approved mining plan

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in top soil not proposed	No separate bench in top soil present	No separate bench in top soil available due to availability of very thin cover of top soil
2c	Stripping ratio or ore to OB ratio	1:0.19	1:0.20	
2d	Quantity of topsoil generation in m3	0.38 million tonnes	0.20 million tonnes	
2e	Quantity of overburden generation in m3	0.42 million tonnes	0.34 million tonnes	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			No separate bench in top soil available due to availability of very thin cover of top soil, therefore less top soil generated

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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit was proposed for the production	One pit is being developed for the production	
3b	Quantity of ROM mineral production proposed	4.25 million tonnes	3.00 million tonnes approx.	As on inspection date
3c	Recovery of sailable/usable mineral from ROM production	3.66 million tonnes	2.6 million tonnes	As on inspection date
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NIL	

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3f	Quantity of sub grade mineral generation.	0.42 million tonnes	0.28 million tonnes
3g	Grade of sub grade mineral generation	NIL	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized method of mining proposed	Mechanized method of mining is being adopted
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NIL
3j	Provision of drilling and blasting in mineral benches	Drilling and Blasting is proposed	As per proposal drilling and blasting is being carried out
3k	Provision of mining machineries in mineral benches	Use of HEMM is being proposed	HEMM is being used as per proposal
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height in OB and mineral bench suitable for method of mining	Bench height in OB and mineral benches are suitable for method of mining
3m	Total area covered under excavation/pits	30.89 hectare	29.56 hectare approx.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.16	1:0.17
3o	Total area put in use under different heads at the end of year	30.89	30.0
3p	Production of ROM mineral during the last five year period as applicable	2018-19 2017-18	2018-19=2.60 2017-18=2.37

3q	General remarks of inspecting officers on method of mining etc.	Production is being done from One proposed pit, with the use of HEMM
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#### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping for top soil and OB proposed	Separate dumping for top soil and OB is being carried out as per proposal	
4b	Location of topsoil, OB and mineral reject dumps	N 2470612 to N 2470774 and E 511106 to E 511300	N 2470600 to N 2470700 and E 511100 to E 511300 (approx.)	
4c	Number of dumps within lease area and outside of lease area	One Temoprary dump for OB and One Temopary dump for Top Soil was proposed within lease area	One OB Dump (temporary), One Top Soil Dump (Temporary) within lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Temporary Dumps are proposed to be outside the UPL	Temporary Dumps are outside the UPL as per proposal	
4e	Number of active and alive dumps.	Two	Two	
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.	Not Proposed	NIL	
4i	Length of Retaining wall or garland drain all along dumps	NIL	NIL	

4j	Number of settling ponds	One	NIL	
4k	Specific comments of inspecting officer on waste dump management			Temporary dumps for top soil and OB is proposed outside the UPL within lease area

#### 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.	Not Proposed	NIL	
5b	Area under backfilling of mined out area	Not Proposed	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Generated top soil is being proposed to be used for plantation	Generated top soil is being used for plantation	
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No area is being back filled yet, no area is mature enough for backfilling yet. as this is a new mine

#### 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).	Proposed for submission	Not submitted
6b	Area available for rehabilitation (ha) .	NIL	Area not mature for rehabilittaion
6c	afforestation done (ha).	1.0	1.25
6d	No. of saplings planted during the year	2000	3000
6e	Cumulative no .of plants	10000	7500
6f	Any other method of rehabilitation	Not Proposed	NIL
6g	Cost incurred on watch and care during the year	Not Mentioned	NA
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Not Proposed	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not Proposed	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	Not Proposed	NIL

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Proposed	NIL	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not Proposed	NIL	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Proposed	As per Proposal with slower survival rate	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Not Proposed	NIL	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Back filling and planttaion proposed	plantation is being done on non mineralized area back filling not done yet	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	As per proposal	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Backfilling is not being done yet, deu to new mine no area is mature enough for the backfilling yet, although plantation is being done year wise with slower rate of survival.

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## Mineral Conservation:

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

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal of top soil and utilization proposed	Top soil is being removed separately and being used for plantation	
8b	Concurrent use or storage of topsoil	it was proposed to use topsoil to be use in planttaion	generated topsoilbeing used forplanttaion in aforesttation program	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed	Temporary dumps are there for OB and Top Soil	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	OB is proposed to be use in backfilling	OB is stored in form of temporary dumps while area in mature for backfilling	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	NIL	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed	as per proposal	
8g	Survival rate	90%	70%	
8h	Water sprinkling on roads to control airborne dust	Proposed	As per Proposal	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			No area is being backfilled yet, no area is mature enough for backfilling, OB is being dumped separately as temporary dumps, top soil is being used in 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	AR and MR submitted	MR Submitted Oct 2019 and AR submitted for year 2018-19	

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information of mining engineer and geologist provided in the AR	Mining Engineer Subhash Chandra Nigam Geologist Manish Dixit
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Information on land use pattern for area under pits dumps are provided.	
9d	Scrutiny of Annual return on afforestation	provided	provided
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Provided	Provided
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Provided	Provided
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	provided	146.72 Rs per tonne
9h	Scrutiny of Annual return on fixed assets	provided	Value of Fixed Assets (in ) 2246134884 for two leases
9k	Scrutiny of Annual return on mining machineries	provided	provided

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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)	17-OCT-19			
	Rule 26(2)	17-OCT-19			

**Date :**

**(DEEPAK SHARMA)**

Indian Bureau of Mines