

MCDR-MiFLOLST/17/2023-JBP-IBM_RO_JBP
INDIAN BUREAU OF MINES

MINERALS DEVELOPEMMENT AND REGULATION DIVISION

I/16499/2023

MCDR inspection REPORT

Jabalpur regional office

Mine code : 38MPR12075

Mine file No : MP/DHAR/LST-59

- (i) Name of the Inspecting : **SQ24**) **MADHAVRAO SABRE**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri OP Kelkar ,Mining Engineer
Official with Designation : Shri Arun Behra Geologist
- (iv) Date of Inspection : 23-NOV-22
- (v) Prev.inspection date : 17-SEP-21

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 correspondance : B-WING,AHURA CENTRE,SECOND FLOOR
MAHAKALI CAVES ROAD ANDHERI EAST
MIDC MUMBAI -400093
3. (a) Lease Number :
- (b) Lease area : **965 Ha**
- (c) Period of lease : **50 Years**
- (d) Date of Expiry : **02.05.2064**
4. Mineral worked : LIMESTONE Main

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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 : Shri K.C Jhanwar
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

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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 BOREHOLES WERE PROPOSED	51 boreholes drilled during the year 2021-22.	03 boreholes were drilled in 2020-21
1c	Exploration Agencies and Expenditure in lakh rupees during the year	-	Undertaken by United exploration India Pvt. Limited, Kolkata. Expenditure incurred Rs 11.02 Lakhs.	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	-	22 Hectares	Nil
1e	Balance reserve as on 01/04/20	-	115. 47 Million Tonnes.	-
1f	General remarks of inspecting officers on geology, exploration etc	54 boreholes were proposed in 2021-22	54 boreholes drilled till 2021-22	22 Ha area is yet to explored .

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Easting: 511665 to 512479 Northing: 2470260 to 2471070	Easting: 511664 to 512470 Northing: 24702460 to 2471070	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes	-
2c	Stripping ratio or ore to OB ratio	1:0.07	1:0.08	-
2d	Quantity of topsoil generation in m3	138888m3	65666 m3	Violation letter issued for short fall.
2e	Quantity of overburden generation in m3	131818 m3	124806 m3	-

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2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Nil	Development work proposed is achieved by and large except TOP SOIL, for which violation letter issued.	-
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	-
3b	Quantity of ROM mineral production proposed	4250000 Tonnes	3426962 Tonnes	Violation letter issued for short fall.
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	-
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	Mechanised	By mechanised means	-
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

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3k	Provision of mining machineries in mineral benches	Yes	Yes	3.5 M3 bucket capacity
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	58.46 Ha	53.43 Ha	-
3n	Ore to OB ratio for the pit/mine during the year.	1:0.07	1:0.08	-
3o	Total area put in use under different heads at the end of year	Area Under Mining: 58.46 Waste Dump: 2.93 Infrastructure & Road 7.774	Area Under Mining: 53.43 Ha. Top soil Dump: 0.629 Ha. Infrastructure & road 7.774	-
3p	Production of ROM mineral during the last five year period as applicable	2017-18 3660000 MT 2018-19 3660000 MT 2019-20 3660000 MT 2020-21 3660000 MT 2021-22 4200000	2017-18 3660000 MT 2,37,265 MT 2018-19 3660000 MT 26,01,287 MT 2019-20 3660000 MT 25,32,857 MT 2020-21 3660000 MT 26,89,184 MT 2021-22 4200000 MT 34,26,962 MT	Violation issued for shortfall in production during 2021-22.
3q	General remarks of inspecting officers on method of mining etc.	-	During the year 2021-22, 42,00,000 MT of limestone is proposed for production but only 34,26,962 T of limestone production is achieved.	Violation letter issued for shortfall.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes proposed	Carried out.	-

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4b	Location of topsoil, OB and mineral reject dumps	Easting: 511058 to 511083 Northing: 2474532 to 2470544	Easting: 511050 to 511080 Northing: 2474531 to 2470540	No Mineral reject dump.
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)	Yes	Within UPL	-
4e	Number of active and alive dumps.	01	01 (Temporary top soil dumps)	-
4f	Number of dead dumps.	Nil	Nil	-
4g	Number of dumps established.	1	1	-
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes , Garland drain constructed.	-
4i	Length of Retaining wall or garland drain all along dumps	Not proposed	125 m	-
4j	Number of settling ponds	Not proposed	Nil	-
4k	Specific comments of inspecting officer on waste dump management	-	-	-

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	2.08 Ha	2.51 Ha	-

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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.	-	-	-

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 13/05/2022	-
6b	Area available for rehabilitation (ha) .	Not proposed	Not proposed in reporting year.	-
6c	afforestation done (ha).	Yes	On 5.5 Ha land	-
6d	No. of saplings planted during the year	yes	7500 number of saplings planted.	-
6e	Cumulative no .of plants	NA	26811 no. pf saplings planted .	-
6f	Any other method of rehabilitation	No	Nil	-
6g	Cost incurred on watch and care during the year	Not proposed.	-	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	750 mX 800 m X 12 m.	Some area has been prepared and backfilled started. During the year 2.51 ha backfilled & Total Cumulative 4.13 ha. area is backfilled.	-

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6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	7500 5 Ha Plantation	7500 5.5 Ha. Green Belt development	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	yes	7500 saplings planted.	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	Na	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Yes	During the year 2.51 ha backfilled & Total Cumulative 4.13 ha. area is backfilled	-
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	yes	7500 saplings planted.	-
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	5.0 Ha	5.5 Ha.	-
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Yes	By Green Belt development.	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Done regularly.	-

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6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	Work done as per proposals.	-
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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 Mineral dispatch	Rom dispatched to plant. Captive Mine.	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not proposed.	NA	-
7c	Different grade of mineral sorted out at mines.	Not proposed	Nil	-
7d	Any beneficiation process at mines	Not proposed.	NA	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Na	No benification of ROM is carried out in lease area. Captive mine.	-

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 and Utilization	utilised in plantation over back filled area.	-

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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	Not proposed	Not in proposal for reporting year.	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Backfilling is in process. During the year 2.51 ha backfilled & Total Cumulative 4.13 ha. area is backfilled.	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Yes	Done. 7500 Saplings were planted during the year	-
8g	Survival rate	80 %	90 %	-
8h	Water sprinkling on roads to control airborne dust	Yes	Yes done regularly.	Permanant water sprinklers installed.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Yes	7500 saplings planted. Solar lights installedand permanent water sprinklers installed along the haul roads.	-

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes	Submitted on time.	-

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes furnished.	Mine Manager & Mining Engineer in charge Shri Omprakash Ramraoji Khelkar Geologist in charge Shri Arun Kumar Behera.	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	yes	(i) Already exploited & abandoned by opencast (O/C) mining 0.000 0.000 0.000 (ii) Covered under current (O/C) Workings 0.000 53.430 53.430 Reclaimed/Rehabilitated 4.130 Ha Used for waste disposal 2.566 Ha Occupied by plant, buildings, residential, welfare buildings & roads 7.774 Ha Other Purpose including Green Belt 15.853 Ha Work done under progressive mine closure plan during the year 8.010 Ha.	-
9d	Scrutiny of Annual return on afforestation	Yes	7500 Saplings planted.	-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Not proposed	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	Opening Stock Production Dispatch Closing Stock Cement Grade 117620.000 3431406.000 3426962.000 122064.000	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	Ex Mine Price Rs 192.69/-	-
9h	Scrutiny of Annual return on fixed assets	Yes	Value of Fixed Assets (in Rs) 2588685602/-	-

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9k	Scrutiny of Annual return on mining machineries	Yes	BACK HOE 3.500 CUM 4 Non Electrical Opencast BACK HOE 2.100 CUM 1 Non Electrical Opencast DOZER 340.000 HP 1 Non Electrical Opencast DOZER 605.000 HP 1 Non Electrical Opencast BLAST HOST DRILL 115.000 MM 2 Non Electrical Opencast DUMPER 35.000 TONNE 11 Non Electrical Opencast MOTOR GRADER 150.000 HP 1 Non Electrical Opencast WATER TANKER 28000.000 LITRE 1 Non Electrical Opencast EXPLOSIVE VAN 6.500 TONNE 1 Non Electrical Opencast CRANE 12.000 TONNE 1 Non Electrical Opencast ROAD ROLLER 11.300	-
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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)	31-JAN-23	20-FEB-23				
MCDR17	Rule 11(1)	31-JAN-23	20-FEB-23				

Date :**(MADHAVRAO SABRE)**

Indian Bureau of Mines