

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

**Mining Plan Modification REPORT**

**Jabalpur regional office**

**Mine file No :** MP/STN/LST-134

**Mine code :** 38MPR35117

- (i) Name of the Inspecting : **NQ08** ) **KATHROJU NAVEEN**  
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri. Rishab Jain( Nominated Owner).shri Digvijay Si  
Official with  
Designation
- (iv) Date of Inspection : 24-JAN-23
- (v) Prev.inspection date : 07-DEC-15

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **BHATOORA ( 26.9 AC)**
- (b) **Registration NO.** :
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address  
State : MADHYA PRADESH  
District : SATNA  
Village : BHATOORA  
Taluka : MAIHAR  
Post office : BHATOORA  
Pin Code :  
FAX No. : N. A.  
E-mail : N. A.  
Phone : N. A.
- (f) Police Station : BADERA
- (g) First opening date :
- (h) Weekly day of rest : SUN
2. Address for : M/S HUKUM CHAND STONE LIME CO.  
correspondance : POST BAX NO. 69, KATNI (M.P.) 483501
3. (a) Lease Number : MPR0652  
(b) Lease area : 10.56  
(c) Period of lease : 50  
(d) Date of Expiry : 27-DEC-28
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : HUKUM CHAND STONE LIME CO.  
POST BAX NO. 69, KATNI  
MADHYA PRADESH  
Phone:N. A.  
FAX :N. A.

Owner : HUKUM CHAND STONE LIME CO.  
STATION ROAD KATNI MADHYA  
PRADESH  
Phone: N. A.  
FAX : N. A.

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	25-OCT-07
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	10-AUG-11
	:	MP modif under MCR 1960	24-FEB-16
	:	MP review under 17(1) MCR 2016	30-APR-19

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Proposed 5 boreholes in 2019-20	5 Boreholes drilled in Nov 2022	
1b	Exploration over lease area for geological axis 1 or 2	G1 level proposed	Explored the Lease area under G2	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee Himself	Lessee Himself	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Entire area to be explored under G1	5.529 ha area explored under G2 axis	
1e	Balance reserve as on 01/04/20	5,53,907 T	6,12,582 T	As per the last approved document the reserves available are 9,16,041 T out of which it is proposed to produce 3,62,134T of limestone against which the mine has produced 3,03,460 T of lime stone
1f	General remarks of inspecting officers on geology, exploration etc			proposed to bring in G-1 level by 2019-20 but the lease area has explored in G2, against the proposed 3,62,134 T since the 1st approval lessee has produced 3,03,460T.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Proposed in northern side of the pit 466960 E TO 467180 E 2664760 N TO 2664860 N	As per proposal	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed separate benches in topsoil and mineral	separate benches in topsoil and mineral maintained.	
2c	Stripping ratio or ore to OB ratio	1:0.22	OB generation is not reported hence stripping ratio cannot reported.	
2d	Quantity of topsoil generation in m3	15,190 Cu.m	Reportedly no top soil handling found.	
2e	Quantity of overburden generation in m3	12,120 Cu.m	Over Burden handling has not reported for the said year.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Over burden and Top soil has not reported dutring the RY.

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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	Proposed 1,21,200 T ROM for the RY.	Produced 1,19,175 T of ROM.	
3c	Recovery of sailable/usable mineral from ROM production	80% recovery of limestone		
3d	Quantity of mineral reject generation	Not proposed	Nil	

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3e	Grade of mineral rejects generation and threshold value declared.	Not proposed	Not applicable.
3f	Quantity of sub grade mineral generation.	Not Proposed	Nil
3g	Grade of sub grade mineral generation	Not Proposed	Not applicable
3h	Manual / Mechanised method adopted for segregating from ROM	Not Proposed	Not applicable.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	Nil
3j	Provision of drilling and blasting in mineral benches	yes proposed.	As per the proposal.
3k	Provision of mining machineries in mineral benches	yes	Yes
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed 2.5m in Topsoil and 6.0m in Mineral	Yes, as per the proposal.
3m	Total area covered under excavation/pits	1.614 during the proposal period and at the end of the proposal cumulative would be 2.668.	As per the submitted drone data 2.56 ha covered under excavation

3n	Ore to OB ratio for the pit/mine during the year.	1:0.22	No OB has been excavated and stripping ratio cannot be calculated.
3o	Total area put in use under different heads at the end of year	The total proposed area under different heads during the proposal period is 0.712 ha	3.34 ha area has put under use (Cumulative).
3p	Production of ROM mineral during the last five year period as applicable	2017-18 0 T 2018-19 0 T 2019-20..... 120000 T 2020- 21.....12093 T 4 T 2021- 22.....12028 7 T 2022-23 ..... ..1,35,624 T	2017-18.....0 T 2018-19.....0 T 2019-20.....64,584 T 2020-21.....19,698 T 2021-22.....1,19,175 2022-23....1,11,101 T
3q	General remarks of inspecting officers on method of mining etc.		

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	proposed seperate dumping for top soil and OB	OB dumping found seperately.	
4b	Location of topsoil, OB and mineral reject dumps	Northern part of the lease area	Northern part of the lease area	
4c	Number of dumps within lease area and outside of lease area	Three	Three	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	inside of the UPL	inside of the UPL
4e	Number of active and alive dumps.	Three	Three
4f	Number of dead dumps.	Not proposed	Nil
4g	Number of dumps established.	Not proposed	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	Not proposed	Nil
4j	Number of settling ponds	Not proposed	Nil
4k	Specific comments of inspecting officer on waste dump management		

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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.	Backfilling proposed on the extracted safety barrier .	Partially backfilled the barrier between 5.529 and 10.560ha leases	
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)	Not proposed	Nil	

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5d	Total area fully reclaimed and rehabilitated	Not proposed	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.		

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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).	To be submitted	Submitted	
6b	Area available for rehabilitation (ha) .	Not proposed	Nil	
6c	afforestation done (ha) .	Not proposed	Nil	
6d	No. of saplings planted during the year	82	82	
6e	Cumulative no .of plants	266	250	
6f	Any other method of rehabilitation	Not proposed	Nil	
6g	Cost incurred on watch and care during the year	50000	50000	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Not proposed	Nil	

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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) Afforestation on backfilled area	275	275
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	Not proposed	Nil
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	Not proposed	Nil

6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes proposed	Monitoring the Environment around the mining lease.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		

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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Proposed 1,21,200 T of Limestone from mine head.	Dispatched 119175.67 tonne of Limestone.	
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	only cement grade limestone is being produced from the mine	
7d	Any beneficiation process at mines	Not proposed	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM lime stone dispatch is proposed.

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#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Proposed 15,190 Cu.m of top soil handling.	Nil
8b	Concurrent use or storage of topsoil	Not proposed	Not applicable.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed separate dump for waste.	Maintaining
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling proposed in the safety barrier zone	Partially backfilled the barrier zone on southern side
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)	82 NOS PLANT PROPOSED	82 NOS PLANT ACHIVED
8g	Survival rate	60%	70% survival rate as reported in AR.
8h	Water sprinkling on roads to control airborne dust	Yes	Operating water tanker on haul road for dust suppression.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		

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## Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Annual returns submitted on 22/06/2022	Annual Returns and Monthly Returns submiotted on time.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer in charge Vidhya Sagar Sahu Geologist in charge Sandeepan Sarkar	Mining engineer and Geologist names are incorrectly given	violation has issued for wrongly submitting the Mining engineer and Geologist.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O/C) Working 0.863 ha (iii) Reclaimed/Rehabilitated 0.095 ha (iv) Used for waste disposal 1.903 ha (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.037 ha		
9d	Scrutiny of Annual return on afforestation	Given as Number of trees planted during the year 90 Survival rate in percentage 60%	plantation has observed around the mine office.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not given	Mineral reject generation not found.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	66280T of stock reported.		

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price reported Rs. 250.00/-	Sale value of the mineral reported Rs. 250/- observed with the submitted sale details.
9h	Scrutiny of Annual return on fixed assets	fixed assets Value given 0	
9k	Scrutiny of Annual return on mining machineries	FRONT END LOADER 1.200 CUM 01 DUMPER 16.000 TONNE 04 DUMPER 10.000 TONNE 04 WATER TANKER 5000.000 LITR PUMPS (NON-ELEC.) 650.000 L/MN	lessee has engaged the said equipment on contractual basis.

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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)	07-FEB-23			
MCDR17	Rule 34(1)	07-FEB-23			
MCDR17	Rule 45(7) (a)	07-FEB-23			

**Date :**

**(KATHROJU NAVEEN)**

Indian Bureau of Mines