

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

**Review and updation of Mining Plan REPORT**

**Jabalpur regional office**

**Mine file No :** MP/SATNA/LST-60

**Mine code :** 38MPR35146

- (i) Name of the Inspecting : **K006** ) **NARESH KUMAR KATARIYA**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Sri D. D. Chaturvedi (Mine Manager), Sh. Kushwaha and  
Official with  
Designation
- (iv) Date of Inspection : 31-JAN-22
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **BHATOORA**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address  
State : MADHYA PRADESH  
District : SATNA  
Village : BHATOORA  
Taluka : MAIHAR  
Post office : BADERA  
Pin Code : 485771  
FAX No. : N. A.  
E-mail : N. A.  
Phone : N. A.
- (f) Police Station : BADERA
- (g) First opening date : 26-FEB-73
- (h) Weekly day of rest : SUN
2. Address for : SHRI JITENDRA KUSHWAHA  
correspondance : ADRESH COLONY  
KATNI (M.P.) 483501
3. (a) Lease Number : MPR0370
- (b) Lease area : 16.25
- (c) Period of lease : 20
- (d) Date of Expiry : 03-DEC-92
4. Mineral worked : LIMESTONE Main  
DOLOMITE Associated

## 5. Name and Address of the

Lessee : JITENDRA KUSHWAHA  
ADRESH COLONY KATNI  
MADHYA PRADESH  
Phone:N. A.  
FAX :N. A.

Owner : JITENDRA KUSHWAHA  
ADRESH COLONY KATNI  
MADHYA PRADESH  
Phone: N. A.  
FAX : N. A.

6. Date of approval of Mining : Renewal under rule 24 MCR1960 06-DEC-12  
Plan/Scheme of Mining MP review under 17(1) MCR 2016 27-APR-17

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	05 nos of Core & 04 nos. of DTH boreholes were proposed for exploratory drilling in approved plan period.	No exploratory drilling had done as per proposal of approved document.	Violation is pointed out under rule 11(1) of MCDR 2017 for the same.
1b	Exploration over lease area for geological axis 1 or 2	16.288 ha under G1 catagory	7.0 ha area	No exploratory drilling had done as per proposal of approved document. Violation is pointed out under rule 11(1) of MCDR 2017 for the same.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified in the approved document	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Complete are was proposed to be explored under G1	9.288 ha is balanced to be explore under G1 catagory.	No exploratory drilling had done as per proposal of approved document. Violation is pointed out under rule 11(1) of MCDR 2017 for the same.
1e	Balance reserve as on 01/04/20		Balance reserve as on 01.04.2021 is 4015718 Tons	
1f	General remarks of inspecting officers on geology, exploration etc			No exploratory drilling had done as per proposal of approved document. Violation is pointed out under rule 11(1) of MCDR 2017 for the same. The limestone in the area is a startiform diposit and has about 15 degree dip.

## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 2664421-2664209 E 466666-E467202	N 2664222- N 2664455	Mine development was not carried out at the proposed location and vertical depth of the mine was carried out up to 345 mRL without any proposal. The mine development was lagging from the proposal and not as per the approved proposals of approved document. Violation pointed out for the same under rule 11(1) of MCDR 2017.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	separate benches of 7.5m height in limestone & maximum up to 6m in OB shall be maintained in the mine and bench widths at the mine shall be 7.5m to 10m & 6m to 10m for limestone & OB respectively.	During inspection it was observed that the benches in the northern part, southern part and some other areas of the pit were found merged up and high wall has been created in the pit between BP no. 01 to BP no. 02 resulting height of the benches found more than the proposal. And, it was also observed that at some places in the northern and southern side between BP no. 01 to BP no. 02 width of the benches found very less than approval.	Violation pointed out for the same under rule 11(1) of MCDR 2017.

2c	Stripping ratio or ore to OB ratio	1:0.25	1:0.1	The mine development was lagging from the proposal and not as per the approved proposals of approved document. Violation pointed out for the same under rule 11(1) of MCDR 2017.
2d	Quantity of topsoil generation in m3	258654 cum	3500 cum	
2e	Quantity of overburden generation in m3	418534 Cubic meter	155000 cubic meter	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		During inspection it was observed that the benches in the northern part, southern part and some other areas of the pit were found merged up and high wall has been created in the pit between BP no. 01 to BP no. 02 resulting height of the benches found more than the proposal. And, it was also observed that at some places in the northern and southern side between BP no. 01 to BP no. 02 width of the benches found very less than approval. The mine development was lagging from the proposal .	Violation is pointed out for the same.

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Exploitation:

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Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	from Two Pits (quarry-1 & quarry-2 towards south)	One pit	it was observed during inspection that development was not carried out at the proposed location and vertical depth of the mine was carried out up to 345 mRL without any proposal. Violation is pointed out for the same under 11(1) of MCDR-2017.
3b	Quantity of ROM mineral production proposed	399000 Tons	393523 Tons	
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.	Nil	Nil	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Not done.	
3j	Provision of drilling and blasting in mineral benches	Yes	Drilling and blasting has been done in the lease area	
3k	Provision of mining machineries in mineral benches	Yes	FRONT END LOADER 1.2 CUM 1 No DUMPER 10 TONNE 3 Nos DUMPER 16 TONNE 4 Nos WATER TANKER 5000 ltr 01 no	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	it was observed that the benches in the northern part, southern part and some other areas of the pit were found merged up and high wall has been created in the pit between BP no. 01 to BP no. 02 resulting height of the benches found more than the proposal. And, it was also observed that at some places in the northern and southern side between BP no. 01 to BP no. 02 width of the benches found very less than approval.	Violation pointed out for the same under rule 11(1) of MCDR 2017
3m	Total area covered under excavation/pits	8707 sqm	4000 sqm	The mine development was lagging from the proposal and not as per the approved proposals of approved document. Violation pointed out for the same under rule 11(1) of MCDR 2017
3n	Ore to OB ratio for the pit/mine during the year.	1:0.25	1:0.1	Violation pointed out.

3o	Total area put in use under different heads at the end of year	10.128 ha	9.0 ha	
3p	Production of ROM mineral during the last five year period as applicable	2017-18 400035 2018-19 399750 2019-20 400016 2020-21 399000 2021-22 399825	2017-18 359134 2018-19 395000 2019-20 395000 2020-21 393523	
3q	General remarks of inspecting officers on method of mining etc.		separate benches of 7.5m height in limestone & maximum up to 6m in OB shall be maintained in the mine and bench widths at the mine shall be 7.5m to 10m & 6m to 10m for limestone & OB respectively. But, during inspection it was observed that the benches in the northern part, southern part and some other areas of the pit were found merged up and high wall has been created in the pit between BP no. 01 to BP no. 02 resulting height of the benches found more than the proposal.	Extension of pit/benches was extended beyond the 7.5-meter statutory barrier zone near BP 01 to BP 02 and some other places which are also shown in the surface plan. Violation pointed out for the same.

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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)	Yes	Separate dumping of Topsoil, OB etc observed.	
4b	Location of topsoil, OB and mineral reject dumps	South East of ML area	South East of ML area	
4c	Number of dumps within lease area and outside of lease area	Two dumps	Two dumps	Dumps observed within the lease area

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4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	South East within UPL	South East within UPL	Dumps observed within the lease area
4e	Number of active and alive dumps.	2 dumps	two dumps	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Nil	Nil	No any dump was established.
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Retaining wall observed near dumps and garland drain was maintained.	
4i	Length of Retaining wall or garland drain all along dumps	Not specified	No record	about 300 m garland drain was observed .
4j	Number of settling ponds	Nil	01	
4k	Specific comments of inspecting officer on waste dump management			Two Dumps observed within the lease area which are within the UPL. Rehandling of the the dumps has been proposed in the approved plan for backfilling.

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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.	60000 sqm	4000 sqm	area not matured for backfilling. Full extraction of mineral was not carried out .

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5b	Area under backfilling of mined out area	30000 sqm	Nil	The protective, reclamation and rehabilitation measures viz. proposed backfilling in 29000 sq metre mined out area & plantation in 10,000 sq metre area have not been undertaken in accordance to approved Prograssive Mine Closure Plan (PMCP) either partially or fully. Violation pointed out for the same under rule 26(1) of MCDR 2017
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Storage of top soil for future use of plantation after backfilling.	Stacking & Bund	plantation in 10,000 sq metre area have not been undertaken in accordance to approved Prograssive Mine Closure Plan (PMCP) . violaiton pointed out for the same.
5d	Total area fully reclaimed and rehabilitated	20000 sqm	Nil	backfilling in mined out area & plantation have not been undertaken in accordance to approved Prograssive Mine Closure Plan (PMCP). Violation pointed out for the same.

5e	General remarks of inspecting officers on backfilling and reclamation etc.	The protective, reclamation and rehabilitation measures viz. proposed backfilling in 29000 sq metre mined out area & plantation in 10,000 sq metre area have not been undertaken in accordance to approved Prograssive Mine Closure Plan (PMCP) either partially or fully. Violation pointed out for the same under rule 26(1) of MCDR 2017
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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	Not submitted	The yearly report in respect of rule 26(2) of MCDR 2017 has not been submitted for the year 2020-21. Violation pointed out for the same under rule 26(2) of MCDR 2017

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6b	Area available for rehabilitation (ha) .	2.9 ha	Nil	proposed backfilling in 29000 sq metre mined out area & plantation in 10,000 sq metre area have not been undertaken in accordance to approved Prograssive Mine Closure Plan (PMCP). Violation pointed out for the same under rule 26(1) of MCDR 2017
6c	afforestation done (ha).	1.0 ha	Nil	plantation in 10,000 sq metre area have not been undertaken in accordance to approved Prograssive Mine Closure Plan (PMCP). Violation pointed out for the same under rule 26(1) of MCDR 2017
6d	No. of saplings planted during the year	1000	Nil	plantation has not been undertaken in accordance to approved Prograssive Mine Closure Plan (PMCP). Violation pointed out for the same under rule 26(1) of MCDR 2017
6e	Cumulative no .of plants	Not specified	approx 100	
6f	Any other method of rehabilitation	Not proposed	NA	
6g	Cost incurred on watch and care during the year	Not specified	0.75 Lakh	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	45000 sqm	4000 sqm	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	29000 sqm	Nil	proposed backfilling in 29000 sq metre mined out area has not been undertaken in accordance to approved Prograssive Mine Closure Plan (PMCP). Violation pointed out for the same under rule 26(1) of MCDR 2017
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	10000 sqm	Nil	plantation in 10,000 sq metre area have not been undertaken in accordance to approved Prograssive Mine Closure Plan (PMCP). Violation pointed out for the same under rule 26(1) of MCDR 2017
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	No any work done	Water logged area observed in the lease area in the lower benches.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not proposed	NA	

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	0.02 Ha	0.01 Ha.	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1.0 Ha.	Nil	Violation pointed out for the same.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation	Plantation	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Yes	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		The yearly report in respect of rule 26(2) of MCDR 2017 has not been submitted. The protective, reclamation and rehabilitation measures viz. proposed backfilling in 29000 sq metre mined out area & plantation in 10,000 sq metre area have not been undertaken in accordance to approved Prograssive Mine Closure Plan (PMCP) either partially or fully and thus attact the violations to the provision of this rule.	Violations pointed out for the same.

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Mineral Conservation:

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Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch and Grade wise sorting within lease area	ROM mineral dispatch and Grade wise sorting within lease area
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	manual	manual
7c	Different grade of mineral sorted out at mines.	BF & Cement grade	BF & Cement grade
7d	Any beneficiation process at mines .	No	No
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		ROM mineral dispatch and Grade wise sorting within lease area. No any beneficiation was observed.

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**Environment:**

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Top soil dump observed.	
8b	Concurrent use or storage of topsoil	Storage of topsoil for future use in plantation	Stacking near mine office	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	

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8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling	Backfilling not done	Violation pointed out for the same.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	The protective, reclamation and rehabilitation measures viz. proposed backfilling in 29000 sq metre mined out area & plantation in 10,000 sq metre area have not been undertaken in accordance to approved (PMCP) either partially or fully and thus attract the violations to the provision of this rule.	Violation pointed out.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Yes	plantation in 10,000 sq metre area have not been undertaken in accordance to approved (PMCP)	Violation pointed out.
8g	Survival rate	80%	80%	
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		Backfilling & plantation was not done as per approved document. Extension of pit/benches was extended beyond the 7.5-meter statutory barrier zone near BP 01 to BP 02 and some other places which are also shown in the surface plan.	

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Compliance of Rule 45:

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Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Yes	Annual Return Submitted on 03-07-2021
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	No	Mining Engr - Sri D. D. Chaturvedi, Mine Geologist - Sri Ramraj Kushwaha
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	Land use pattern 1 Area under Mining 5.75 2 Topsoil stacking 0.25 3 Overburden/Waste Dumping 2.0 4 Mineral Storage 0 5 Infrastructure (Workshop, Administrative Building etc.) 0.25 6 Roads 0.25
9d	Scrutiny of Annual return on afforestation	NIL	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	ROM closing stock 348753.85 Tonnes
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	Ex.Mine price - Rs 330 per tonne & production costs - Rs 236.23 per tonne
9h	Scrutiny of Annual return on fixed assets	Yes	94.23 lakhs

9k	Scrutiny of Annual return on mining machineries	Yes	FRONT END LOADER 1.200 CUM 1 Non Electrical Opencast DUMPER 10.000 TONNE 3 Non Electrical Opencast DUMPER 16.000 TONNE 4 Non Electrical Opencast WATER TANKER 5000
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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

**Date :**

**(NARESH KUMAR KATARIYA)**

Indian Bureau of Mines