

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

**MCDR inspection REPORT**

**Jabalpur regional office**

**Mine file No :** MP/KTN/LST-260

**Mine code :** 38MPR47092

- (i) Name of the Inspecting : **G006** ) **ABHISHEK RANJAN GAUTAM**  
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri Vijay Gupta, Lessee Representative, Shri Umesh K  
Official with  
Designation
- (iv) Date of Inspection : 19-OCT-22
- (v) Prev.inspection date : 22-MAY-21

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **NANHWARA (2.1 HA)**
- (b) **Registration NO.** : **IBM/10564/2012**
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : MADHYA PRADESH
- District : KATNI
- Village :
- Taluka :
- Post office :
- Pin Code :
- FAX No. : 07622400434
- E-mail : guptavijay2017@gmail.com
- Phone : 07622400343
- (f) **Police Station** : KYMORE
- (g) **First opening date** :
- (h) **Weekly day of rest** :
2. **Address for** : SHRI PAVAN PANDEY  
**correspondance** 10, SINGHAI COLONY, KATNI (M.P.)
3. (a) **Lease Number** : MPR2475
- (b) **Lease area** : 2.1
- (c) **Period of lease** : 50
- (d) **Date of Expiry** : 14-MAR-52
4. **Mineral worked** : DOLOMITE Associated  
LIMESTONE Main

## 5. Name and Address of the

Lessee : PAVAN PANDEY  
10, SINGHAI COLONY KATNI  
MADHYA PRADESH  
Phone:N. A.  
FAX :N. A.

Owner : PAVAN PANDEY  
10, SINGHAI COLONY KATNI  
MADHYA PRADESH  
Phone: N. A.  
FAX : N. A.

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	20-DEC-01
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	19-SEP-12
	:	MP modif under 17(3) MCR 2016	17-DEC-16
	:	MP review under 17(1) MCR 2016	07-JUL-21

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	During the year 2021-22 06 number of Bore holes proposed	Exploration done as per proposal	BH record in form J not submitted.
1b	Exploration over lease area for geological axis 1 or 2	During the year 2021-22 06 number of Bore holes proposed	Exploration done as per proposal	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	During the year 2021-22 06 number of Bore holes proposed	Exploration done as per proposal	
1e	Balance reserve as on 01/04/20		Balance reserve as on 01/04/2022 Reserve - 22042 Tones Resources _ 27997 Tones	
1f	General remarks of inspecting officers on geology, exploration etc			BH record in form J not submitted. Violation pointed out.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It was proposed to extend quarry- 1 towards North & South	Overall mining working carried out as per the proposals	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate bench proposed for OB during the year. Separate benches in ore were also proposed.	Working carried out as per the proposals	
2c	Stripping ratio or ore to OB ratio	1:0.80	Nil	It was proposed to remove 3128 M3 of Over Burden in the year 2021-22 but nil achieved

2d	Quantity of topsoil generation in m3	555 M3	Nil	Violation pointed out for same
2e	Quantity of overburden generation in m3	3128 M3	No OB generated during the year	Violation pointed out for same
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The mine development was lagging from the approved proposal

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Working proposed in single pit	Working carried out as per the proposals	
3b	Quantity of ROM mineral production proposed	Total 10007 tones production/excavation of ROM proposed	Total 9970 Tonne of cement grade limestone acheived	There is no excess production against proposals
3c	Recovery of sailable/usable mineral from ROM production	Proposed as 70% of total ROM	About 70% acheived as proposed	Rest 30% as interburden
3d	Quantity of mineral reject generation	Not Proposed	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not Proposed	Nil	No reject generated during the year 2020-21
3f	Quantity of sub grade mineral generation.	Not Proposed	Nil	
3g	Grade of sub grade mineral generation	Not Proposed	Not applicable	No sub-grade limestone generation proposed
3h	Manual / Mechanised method adopted for segregating from ROM	Manual sorting & sizing proposed	Manual sorting & sizing carried out as proposed	Limestone intercalated with phyllite & domite

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	Nil	No beneficiation required except manual sorting & sizing
3j	Provision of drilling and blasting in mineral benches	Jack Hammer drilling proposed	Drilling & blasting carried out as per proposals	
3k	Provision of mining machineries in mineral benches	Opencast manual method of mining proposed	Open cast manual method of mining adopted as proposed	Manual method of mining by means of hand tool such as spades, hammer, crowbar, chiesel, etc proposed & being practised
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height of 0.5m in OB & 3mts in limestone proposed	Bench height s were maintained as per the proposals	
3m	Total area covered under excavation/pits	Under excavation pit - 1.2888 ha	Under excavation pit - 1.2 ha area as per annual return for the year 2021-22	No lateral development/excavation
3n	Ore to OB ratio for the pit/mine during the year.	1:0.80	Nil	No overburden generated during the year
3o	Total area put in use under different heads at the end of year	Area under mining-1.2888 Ha To Soil Storage-0.093 Ha Road-0.064	Area under mining-1.20 Ha Waste Dumps-0.180 Ha Road-0.064 As per annual return for the year 2021-22	
3p	Production of ROM mineral during the last five year period as applicable	2017-18-: 10080 MT 2018-19-: 10049 MT 2019-20-: 10001 MT 2020-21-: 9499 MT 2021-22 -: 10007 MT	2017-18-: NA 2018-19-: 6800 MT 2019-20-: Nil MT 2020-21-: 9499 MT 2021-22-: 9970 MT	

3q	General remarks of inspecting officers on method of mining etc.	Manual method of mining adopted in ML area. Loading of ROM being practised by tractor/trucks with manual loading. There were two working pits of different dimensions.
----	---	--

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Concurrent use of top soil proposed for plantation purpose & OB proposed for bund around the lease boundary	Not done as per proposal. No OB & top soil generated during the year. One top soil stack is located towards south-eastern part of ML area	Violation pointed out for same
4b	Location of topsoil, OB and mineral reject dumps	Concurrent use of top soil proposed for plantation purpose & OB proposed for bund around the lease boundary	One top soil stack is located towards south-eastern part of ML area	Concurrent use of top soil is proposed for platation purpose as & when top soil encountered
4c	Number of dumps within lease area and outside of lease area	Nil, Bunding proposed	Bunding not started because No OB & top soil generated during the year. One top soil stack is located towards south-eastern part of ML area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dumping/stacking proposed within UPL	dumping carried out within ultimate pit limit	
4e	Number of active and alive dumps.	At Present single top soil active stack is existing in lease area	No OB dumps encountered in ML area	
4f	Number of dead dumps.	Not Proposed	No dead dumps in ML area	
4g	Number of dumps established.	Not Proposed	No OB dumps encountered in ML area	

4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposals	Nil	No OB dumps encountered in ML area
4i	Length of Retaining wall or garland drain all along dumps	No Proposals	Nil	No OB dumps encountered in ML area
4j	Number of settling ponds	No proposals	Nil	No settling ponds observed in ML area
4k	Specific comments of inspecting officer on waste dump management			No OB dumps encountered in ML area area. Concurrent use of top soil for plantation purpose proposed in approved document.

---

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.	No Proposals	Full extraction of limestone not encountered in any pit.	Further, depthward exploration to prove the entire depth of mineralisation is required.
5b	Area under backfilling of mined out area	Not proposed	Not applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Concurrent use of top soil for plantation purpose proposed	Carried out as per the proposals	
5d	Total area fully reclaimed and rehabilitated	Not proposed	No area has been fully reclaimed & rehabilitated	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Working pit area not matured so far for reclamation & rehabilitation

---

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 before 1st July of every year	Submitted within time limit	
6b	Area available for rehabilitation (ha) .	Total 0.16 area proposed for reclamation & rehabilitation	Not done	violation pointed
6c	afforestation done (ha).	proposed	Plantation not done as per proposal.	
6d	No. of saplings planted during the year	proposed	Plantation not done as per proposal.	
6e	Cumulative no .of plants	Not applicable	Not applicable	details not available
6f	Any other method of rehabilitation	No Proposals	Not applicable	
6g	Cost incurred on watch and care during the year	NA	NA	Not provided in approved document
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Proposed	Not done as per the proposals	Violation pointed out
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Backfilling was proposed by OB backfilling	Not done	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area		Plantation not done as per proposal.	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Proposed	Not applicable	



6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not Proposed	Not applicable	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not Proposed	Not applicable	Most of ML area is mineralised by limestone & dolomite
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not Proposed	Not applicable	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not Proposed	Not applicable	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodical Air, Water, Noise monitoring Proposed	Carried out as per the proposals	Analysis reports were provided
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Working pits area not matured so far, hence scope of backfilling/reclamation & rehabilitation doesn't exist. Periodic monitoring is being carried out by outsourced consultant.

---

Mineral Conservation:

---

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

---

7a	ROM Mineral dispatch or grade-wise sorting within lease area	10007 MT proposed as total limestone production for despatch. Manual grade wise sorting proposed within lease area for high grade limestone for steel industries & low grade for cement plants	9970 Tone production achieved. Working carried out as per the proposals	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual sorting & sizing proposed	Manual sorting & sizing carried out	Sorting & sizing within ML area
7c	Different grade of mineral sorted out at mines.	B.F grade limestone (CaO-42% Min, SiO <sub>2</sub> -4% Max, Size-+50mm Cement grade: CaO-42 to 45%, MgO- Up to 4%, SiO <sub>2</sub> - up to 10%	B.F grade limestone (CaO-42% Min, SiO <sub>2</sub> -4% Max, Size-+50mm Cement grade: CaO-42 to 45%, MgO- Up to 4%, SiO <sub>2</sub> - up to 10%	Sorting carried out as per the proposals
7d	Any beneficiation process at mines	Not Proposed	Nil	Not required, manual sorting & sizing proposed
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Limestone is being conserved by grade wise sorting in the lease area. B.F grade limestone (CaO-42% Min, SiO <sub>2</sub> -4% Max, Size-+50mm & Cement grade: CaO-42 to 45%, MgO- Up to 4%, SiO <sub>2</sub> - up to 10% proposed for sorting. There is no mineral rejects/subgrade generation.

---

Environment :

---

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

---

8a	Separate removal and utilization of topsoil (Rule 32)	Concurrent use of top soil proposed for plantation.	Carried out as per the proposals but no top soil generated during the year.	Top soil utilized for afforestation purpose. Violation pointed out for same
8b	Concurrent use or storage of topsoil	Concurrent use of top soil proposed for plantation.	Concurrent use of top soil done for plantation.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping proposed during the year	No OB generated during the year	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	Nil	Working pits area not matured so far for its restoration purpose.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Only 0.16 area proposed for reclamation	Not done	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation proposed	As per annual return of 2021-22 plantations of 561 trees reported. But during inspection no new plantation observed	
8g	Survival rate		Nil	As per annual return of 2021-22 plantations of 561 trees reported. But during inspection no new plantation observed
8h	Water sprinkling on roads to control airborne dust	Water sprinkling is proposed by water tanker	Regular water sprinkling is done by water tanker	Water tanker of 5KL capacity is provided for the purpose

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in and around mine area is not much satisfactory as plantation not done up to that extent. Hence, it was instructed to propose at least 200-300 sapling/year
----	--	---

---

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		M.R. submitted upto- Sep- 2022 A.R. submitted upto- 2021-22	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Mining Engineer - Shri Umesh Kushwaha Geologist - Not appointed	Geologist not apponited, Violation pointed out.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Area under mining-1.20 Ha Waste Dumps-0.180 Ha Road-0.064 As per annual return for the year 2021-22	
9d	Scrutiny of Annual return on afforestation		As per annual return of 2021-22 plantations of 561 trees reported. But during inspection no new plantation observed	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)		No mineral rejects generation proposed in approved document	
9f	Scrutiny of Annual return on ROM stock and/or graded ore		Production - 9970 Tones Dispatch - 6893 Tones Closing Stock - 12490 T	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		Ex mine price - 300/- Production cost -Rs 298.01/-	

9h	Scrutiny of Annual return on fixed assets	Rs - 3099750/-
9k	Scrutiny of Annual return on mining machineries	Dumper 10 tone - 02 nos.

---

**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)	11-NOV-22			
MCDR17	Rule 27(1)	11-NOV-22			
MCDR17	Rule 31(1)	11-NOV-22			
MCDR17	Rule 34(1)	11-NOV-22			
MCDR17	Rule 55(1)(1)	11-NOV-22			

**Date :**

**(ABHISHEK RANJAN GAUTAM)**

Indian Bureau of Mines