

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

**MCDR inspection REPORT**

**Jabalpur regional office**

**Mine file No :** MP/KTN/LST-156

**Mine code :** 38MPR18090

- (i) Name of the Inspecting : **G006** ) **ABHISHEK RANJAN GAUTAM**  
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri K K Chandra, Manager Mines & Shri Vinod Patel, M  
Official with  
Designation
- (iv) Date of Inspection : 18-OCT-22
- (v) Prev.inspection date : 03-SEP-21

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **BISTARA (4.57HT)**
- (b) **Registration NO.** :
- (c) **Category** : A Other than Fully Mech.
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : MADHYA PRADESH
- District : KATNI
- Village : BISTARA
- Taluka : KATNI
- Post office : JOBIKALAN
- Pin Code :
- FAX No. : N. A.
- E-mail : N. A.
- Phone : N. A.
- (f) **Police Station** : VIJAYRAGHAVGARH
- (g) **First opening date** :
- (h) **Weekly day of rest** : MON
2. **Address for correspondance** : M/S N.M.DUBASH STONE & LIME CO.PVT.LTD.  
STATION ROAD, P.O. MAIHAR,  
DIST. SATNA (M.P.) 485771
3. (a) **Lease Number** : MPR0025
- (b) **Lease area** : 4.57
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 01-NOV-17
4. **Mineral worked** : LIMESTONE Main

## 5. Name and Address of the

Lessee : N.M.DUBAS STONE & LIME CO. PVT.LTD.  
 STATION ROAD P.O. MAIHAR  
 SATNA MADHYA PRADESH  
 Phone:N. A.  
 FAX :N. A.

Owner : N.M.DUBASH STONE & LIME CO.PVT.LTD.  
 STATION ROAD P.O. MAIHAR  
 SATNA MADHYA PRADESH  
 Phone: N. A.  
 FAX : N. A.

## Mining Engineer

Name : S.K. JAIN,Full Time  
 Qualification :  
 Appointment/ :  
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	03-JAN-97
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	30-JUL-08
		Mining Scheme rule 12 MCDR1988	21-NOV-11
		Mining Scheme rule 12 MCDR1988	18-MAY-15
		MP modif under 17(3) MCR 2016	02-SEP-20

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Not proposed	Nil	
1b	Exploration over lease area for geological axis 1 or 2	Lease area explored upto G1 level	Lease area explored upto G1 level	
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	Nil	Nil	
1e	Balance reserve as on 01/04/20		Reserve - 1307905 Tones Resources - 522000 Tones	
1f	General remarks of inspecting officers on geology, exploration etc			The occurrence of Limestone in the lease area is stratigraphically controlled. The lease area belongs to Vindhyan super group in Rohtas Limestone of Semri group. Rocks of this formation comprise of shale and Limestone.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Working is proposed in quarry 1.The faces advancement is proposed towards South, South-west and in depth.	Working is carried out in quarry 1 . The faces advancement is done towards South, South-West and in depth.	The mine development was lagging from the approved proposal. Violation pointed out under rule 11(1).

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in OB and minerals proposed. Six benches of height between 4 to 6 m proposed.	Separate benches in OB and minerals maintained.	
2c	Stripping ratio or ore to OB ratio	1:1.10	1:1.10	
2d	Quantity of topsoil generation in m3	It was proposed to remove 875 M3 of Top Soil in the year 2021-22	Nil	Violation pointed out
2e	Quantity of overburden generation in m3	It was proposed to remove 61393 M3 of Over Burden in the year 2021-22	28040 M3 Over Burden removed	Violation pointed out
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. Violation pointed out under rule 11(1).

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit	One pit	
3b	Quantity of ROM mineral production proposed	It was proposed to produce 139180 metric tons of Limestone in the year 2021-22	only 103550 tons production achieved	violation pointed out under rule 11(1) of MCDR 2017.
3c	Recovery of sailable/usable mineral from ROM production	Entire ROM generated for sale proposed	Entire ROM generated is sold	
3d	Quantity of mineral reject generation	Nil	Nil	

3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable
3f	Quantity of sub grade mineral generation.	Nil	Nil
3g	Grade of sub grade mineral generation	Not applicable	Not applicable
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No analysis or beneficiation study proposed	No analysis or beneficiation study carried out for sub-grade mineral and reject.
3j	Provision of drilling and blasting in mineral benches	Drilling & blasting in mineral benches proposed	Drilling & blasting in mineral benches carried out
3k	Provision of mining machineries in mineral benches	Proposed	Dumper - 16 Tonnes - 04 numbers Front end Loader - 2.00 Cum -01 numbers Water Tanker - 3000 ltrs - 01 numbers Air Compressor - 325 Cum/Mn - 01 Numbers Electric Moter - 100 HP - 01 Numbers
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes Proposed	Separate benches in OB and minerals maintained.
3m	Total area covered under excavation/pits	Under excavation pit - 3.16 ha	Under excavation pit - 3.06 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:1.10	1:1.10

3o	Total area put in use under different heads at the end of year	Covered under corrent pit - 3.16 ha Waste disposal - 0.210 ha Other purpose - 0.740 ha	Covered under corrent pit - 3.06 ha Reclaimed/Rehabilitated - 0.170 ha Waste disposal - 0.600 ha Other purpose - 0.740 ha
3p	Production of ROM mineral during the last five year period as applicable	2017-18 139200 2018-19 133800 2019-20 110400 2020-21 139185 2021-22 139180	2017-18 101675 2018-19 Nil 2019-20 Nil 2020-21 90570 2021-22 103550
3q	General remarks of inspecting officers on method of mining etc.	Opencast Other than fully mechanised method of mining were being carried out in the lease area. The excavation in OB has been carried out by HEMM. The haul road is prepared from NE and leads to crusher located in north outside ML area. There is adjoining and contiguous ML area of lessee in east direction over 17.07 ha.	

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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 dumps of OB & Mineral proposed	Separate dumps of OB & Mineral maintained	
4b	Location of topsoil, OB and mineral reject dumps	01 temporary dump in southern part of the quarry.	01 temporary dump in southern part of the quarry.	
4c	Number of dumps within lease area and outside of lease area	01 temporary dump within lease area	01 temporary dump within lease area	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	within UPL	within UPL	
4e	Number of active and alive dumps.	01	01	
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.		Garland drain of 300 meters(approx..)found	
4i	Length of Retaining wall or garland drain all along dumps		Garland drain of 300 meters(approx..)found	
4j	Number of settling ponds	one	one	
4k	Specific comments of inspecting officer on waste dump management			The whole ML area is mineralized and hence temporary dumping has been proposed and were being carried out. Dumping as well as backfilling has been carried out.

#### 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.	full extraction of mineral from mined out area proposed before starting backfilling .	full extraction of mineral from mined out area adopted before starting backfilling .	
5b	Area under backfilling of mined out area	0.065 ha	0.065 ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	to be used for plantation	used for plantation	

5d	Total area fully reclaimed and rehabilitated	0.065 ha	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		The OB/mine waste is being backfilled in 7.5m barrier zone and mined out area towards west and north. The rest is being stacked towards south on the existing dump.

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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	Submitted	
6b	Area available for rehabilitation (ha) .	Not proposed	Not applicable	
6c	afforestation done (ha).	0.065 ha	0.065 ha	
6d	No. of saplings planted during the year		30 numbers	
6e	Cumulative no .of plants		Not provided	
6f	Any other method of rehabilitation	Not proposed	Not applicable	
6g	Cost incurred on watch and care during the year	Not mentioned	Not applicable	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	0.065 ha	0.065 ha	



6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed	Not applicable
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Not proposed	Not applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not applicable	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not applicable	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Not applicable	Not applicable
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Not applicable	Not applicable
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Not applicable	Not applicable
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Carried out as per proposal

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	It was observed during inspection that the lessee had been carrying out PMCP related works as per proposal.
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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 proposed	ROM mineral dispatch carried out	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised	Mechanised	
7c	Different grade of mineral sorted out at mines.	Not applicable	Not applicable	
7d	Any beneficiation process at mines	Not Proposed	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No beneficiation process at mines proposed.

#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	topsoil to be utilised for plantation purpose	nil achieved	Violation Pointed out
8b	Concurrent use or storage of topsoil	topsoil to be utilised for plantation purpose	topsoil utilised for plantation purposes	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for overburden proposed	Separate dumps for overburden maintained	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	backfilling proposed	backfilling adopted	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Phased restoration, reclamation and rehabilitation of lands affected by mining operations proposed	Phased restoration, reclamation and rehabilitation adopted	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Yes	within lease area - 30 tree planted	
8g	Survival rate	About 80%	About 80%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads to control airborne dust proposed	Water sprinkling on roads carried out	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The aesthetic beauty in and around mine area is fairly good

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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 V.K.Patel Geologist - Shri Ratnesh Kumar Pandey
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under corrent pit - 3.06 ha Reclaimed/Rehabilitated - 0.170 ha Waste disposal - 0.600 ha Other purpose - 0.740 ha
9d	Scrutiny of Annual return on afforestation	within lease area - 30 tree planted
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening stock - 13304 Tonnes Production - 103550 Tonnes Dispatch - 74349 Tonnes Closing Stock - 42504 Tones
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price - Rs 375.23/- Production cost Rs 293.05/-
9h	Scrutiny of Annual return on fixed assets	The value of fixed assets is mentioned as nil.
9k	Scrutiny of Annual return on mining machineries	Dumper - 16 Tonnes - 04 numbers Front end Loader - 2.00 Cum -01 numbers Water Tanker - 3000 ltrs - 01 numbers Air Compressor - 325 Cum/Mn - 01 Numbers Electric Moter - 100 HP - 01 Numbers

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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)	11-NOV-22			
MCDR17	Rule 27(1)	11-NOV-22			
MCDR17	Rule 34(1)	11-NOV-22			

**Date :**

**(ABHISHEK RANJAN GAUTAM)**

Indian Bureau of Mines