

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

**MCDR inspection REPORT  
Jabalpur regional office**

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

**Mine code :** 38MPR18090

- (i) Name of the Inspecting : **C004** ) **ROBERT SIMON C**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri.V.K.Patel (Mine Manager)  
Official with  
Designation
- (iv) Date of Inspection : 03-SEP-21
- (v) Prev.inspection date : 10-OCT-18

**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 : M/S N.M.DUBASH STONE & LIME CO.PVT.LTD.  
correspondance : 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	03 Boreholes proposed	Nil	Violation pointed out under rule 11(1) of MCDR 2017.
1b	Exploration over lease area for geological axis 1 or 2	G1 - 4 ha	G1 - 4 ha	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	0.57 ha of Unexplored area into G1	Nil	Violation pointed out under rule 11(1) of MCDR 2017.
1e	Balance reserve as on 01/04/20		1.411 Million Tonnes	
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. No boreholes drilled against the proposal of 03 core boreholes during the year 2020-21. Hence, violation pointed out under rule 11(1) of MCDR 2017.

## 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 north, east and in depth. The OB removal has been proposed in towards north and south of quarry.	Working is carried out in quarry 1 . The faces advancement is done towards north, east and in depth. The OB removal done towards north and south of quarry.	
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. Five benches of height between 5 to 7 m maintained.	
2c	Stripping ratio or ore to OB ratio	1:0.41	1:0.41	
2d	Quantity of topsoil generation in m3	1215	1094	
2e	Quantity of overburden generation in m3	58153 m3	37540 m3	Violation pointed out under rule 11(1) of MCDR 2017.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Only 37540 m3 of OB is generated against the proposal of 58153 m3 . Violation pointed out under rule 11(1) of MCDR 2017.

---

**Exploitation:**

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	

---

3b	Quantity of ROM mineral production proposed	139185 tonnes	90570 tonnes	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.	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	Not proposed	Nil	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	no analysis or 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	as per proposal	

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM		Separate benches in OB and minerals maintained. Five benches of height between 5 to 7 m maintained.
3m	Total area covered under excavation/pits	3.16 ha	3.10 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.41	1:0.41
3o	Total area put in use under different heads at the end of year	3.82 ha	3.8 ha
3p	Production of ROM mineral during the last five year period as applicable	2016-17 99000 2017-18 139200 2018-19 133800 2019-20 110400 2020-21 139185	2016-17 80260 2017-18 101675 2018-19 Nil 2019-20 nil 2020-21 90570
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.

---

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	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. The OB/mine waste were being backfilled in 7.5m barrier zone and mined out area towards west and north. The rest was stacked towards south on existing dump.
----	--	--

---

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.
----	--	---

---

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).		Yearly PMCP report has not been submitted for the year 2020-21.	violation pointed out under rule 26(2) of MCDR 2017
6b	Area available for rehabilitation (ha) .	NA	NA	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	0.065 ha	0.065 ha	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA	

---

6m	Compliance of rehabilitation of waste land within lease (i) afforestation	NA	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	proposed	carried out	
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 but yearly PMCP report has not been submitted for the year 2020-21. Violation pointed out under rule 26(2) of MCDR 2017.

---

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.	NA	NA	
7c	Different grade of mineral sorted out at mines.	NA	NA	
7d	Any beneficiation process at mines .	No beneficiation process at mines proposed	NA	

---

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	topsoil utilised for plantation purposes	
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)	PMCP report not submitted		violation pointed out under rule 26(2) of MCDR 2017
8g	Survival rate	NA	NA	
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

---

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	given	MR and AR is submitted upto date.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	given	Mining Engineer in charge - Shri V.K.Patel Geologist in charge - Shri RATNESH KUMAR PANDEY	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	given	Covered under current (O/C) Workings 3.060 Reclaimed/Rehabilitated 0.065 Used for waste disposal 0.600	

---

9d	Scrutiny of Annual return on afforestation	given	Number of trees planted during the year 400 (within lease) and 200 (outside lease).	Yearly PMCP report has not been submitted for the year 2020-21. Violation pointed out under rule 26(2) of MCDR 2017.
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	Nil	Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	given	Ex-mine price (in Rs Per Tonne) of BF grade is 398.18. The details of taxes furnished in cost per tonne calculation in Part-VII are not matching with the amount submitted in the Part-III, Sl.No.5. In the cost per tonne calculation, the details of overhead cost is not matching with the amount submitted in the Part-III, Sl.No.6. Depreciation cost considered for the cost per tonne calculation in Part-VII are not matching with the depreciation details furnished in Part-II A & Part-III S	violation pointed out under rule 45(7) of MCDR 2017
9h	Scrutiny of Annual return on fixed assets	Nil	The value of fixed assets is mentioned as nil.	violation pointed out under rule 45(7) of MCDR 2017

9k	Scrutiny of given Annual return on mining machineries	WATER TANKER 3000.000 LITRE 1 Non Electrical DUMPER 10.000 TONNE 4 Non Electrical FRONT END LOADER 2.000 CUM 1 Non Electrical AIR COMPRESSOR 325.000 CUM/MN 1 Non Electrical ELEC. MOTOR 100.000 HP 1 Electrical
----	--	---

---

**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)	09-SEP-21			
MCDR17	Rule 26(2)	09-SEP-21		16-NOV-21	
	Rule 45(7)	09-SEP-21		16-NOV-21	

**Date :**

**(ROBERT SIMON C)**

Indian Bureau of Mines