

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

**MCDR inspection REPORT  
Jabalpur regional office**

**Mine file No :** M.P/KATNI/LST-235

**Mine code :** 38MPR47001

- (i) Name of the Inspecting : **PQ14** ) **JAY KUMAR PANDEY**  
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri K K Chandra, Mining Engineer  
Official with  
Designation
- (iv) Date of Inspection : 13-JUN-22
- (v) Prev.inspection date : 20-JAN-10

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **AMEHTA (1.518 HA)**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : MADHYA PRADESH  
District : KATNI  
Village : AMEHTA  
Taluka : VISU  
Post office : KAHANGAON  
Pin Code :  
FAX No. : N. A.  
E-mail : N. A.  
Phone : N.A
- (f) Police Station : VIJARAHHOGARH
- (g) First opening date : 01-APR-95
- (h) Weekly day of rest : SAT
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 : MPR2512
- (b) Lease area : 1.52
- (c) Period of lease : 50
- (d) Date of Expiry : 05-MAR-37
4. Mineral worked : LIMESTONE Main  
DOLOMITE Associated

## 5. Name and Address of the

Lessee : N.M.DUBASH 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 : K.K.CHANDA, Full Time  
 Qualification : DIPLOMA IN MINING AND MINE SURVEYING  
 Appointment/ :  
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	16-MAR-95
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	06-JUN-03
	:	Mining Scheme rule 12 MCDR1988	22-DEC-08
	:	Mining Scheme rule 12 MCDR1988	07-OCT-11
	:	Mining Scheme rule 12 MCDR1988	20-JUL-15
	:	MP review under 17(1) MCR 2016	04-DEC-20

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	02 boreholes of 50m. depth proposed in the year 2021-22.	Not done.	Violation of rule 11(1) (a) pointed out.
1b	Exploration over lease area for geological axis 1 or 2	02 boreholes of 50m. depth proposed in the year 2021-22.	The 1.17ha. lease area explored in G1 category & remaining about .4ha. area to be explored by putting 02 boreholes but in actual not done.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed.	Not done.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	about .4ha.	Not done.	
1e	Balance reserve as on 01/04/20	Not proposed.	The balance reserves as on 01/04/2022 is- 0.144 million tonnes.	
1f	General remarks of inspecting officers on geology, exploration etc	Not proposed.	Not applicable.	The lease area belongs to Vindhyan super group in Rohtas Limestone of Semri group. Rocks of this formation comprise of shale, Limestone and Dolomite. These rocks are structurally undisturbed. The exploration was not done as proposed hence violation of rule 11(1) pointed out.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Mainly north & east side of existing pit in o/b soil & limestone benches.	The development & production work done as proposed for removal of o/b soil & limestone benches from proposed site.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	One bench of 4.5ht. in o/b soil & 3 limestone benches of 7.5m. ht.	During inspection it was observed that the working is carried out in proposed site by forming one bench of 4-5ht. in o/b soil & 3 limestone benches of 6-7m. ht.	
2c	Stripping ratio or ore to OB ratio	1:0.68	About 1:0.70	
2d	Quantity of topsoil generation in m3	No top soil only o/b soil 4612 cum. proposed.	About 4600 cum. o/b soil generated during the year 2021-22.	
2e	Quantity of overburden generation in m3	Only interburden in form of waste 7740cu.m. proposed to be generated.	About 7000 cum. interburden waste generated during the year 2021-22 from ROM.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not proposed	Not applicable	The lease area is systematically developed presently by pit with maximum 25m. depth .The lease area is small in size hence exploitation should be in such a manner to reach maximum depth which is presently adopted.

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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One existing pit size about 130-170mx40mx20-25m .	

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3b	Quantity of ROM mineral production proposed	45150 tonnes	44960 tonnes
3c	Recovery of sailable/usable mineral from ROM production	70%	About 70% from ROM.
3d	Quantity of mineral reject generation	Not proposed	Not generated hence not applicable.
3e	Grade of mineral rejects generation and threshold value declared.	Not proposed	Not applicable.
3f	Quantity of sub grade mineral generation.	Not proposed	Not generated hence not applicable.
3g	Grade of sub grade mineral generation	Not proposed	Not applicable.
3h	Manual / Mechanised method adopted for segregating from ROM	Not proposed.	Mechanically as per experience of deposit.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed.	Not applicable.
3j	Provision of drilling and blasting in mineral benches	proposed in mineral .	Drilling & blasting carried out as proposed.
3k	Provision of mining machineries in mineral benches	Excavator & dumper combination proposed.	Excavator & dumper combination deployed as proposed.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	proposed	Height of o/b & mineral benches is suitable for method of mining as proposed.

3m	Total area covered under excavation/pits	Development proposed for 0.4ha. area and production from depth of old mineral benches.	During the year the development done in proposed site ,production done from mineral benches as proposed in depth. cumulative about 1.2ha. area degraded in pits./haul roads etc.	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.68	About 1:0.70	
3o	Total area put in use under different heads at the end of year	Proposed in pits-1.2ha. only	In actual- in pits- 1.2ha. within lease.	
3p	Production of ROM mineral during the last five year period as applicable	2017-18 33270 t 2018-19 39573 t 2019-20 28217 t 2020-21 43969 t 2021-22 45150 t.	2017-18 7644 t 2018-19 0 t 2019-20 0 7 t 2020-21 360 t 2021-22 44960 t.	
3q	General remarks of inspecting officers on method of mining etc.	Not proposed	Not applicable	The mining is carried out by deploying excavator & dumpers with drilling and blasting as proposed systematically with conservation of mineral.

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Solid Waste Management - Dumping:

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Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	During the year o/b subsoil & interburden waste is proposed for backfilling in southern side excavated lease boundary.	During the year generated o/b subsoil & interburden waste utilised for backfilling as proposed.	
4b	Location of topsoil, OB and mineral reject dumps	Not proposed.	Only backfilling & bund proposed.	
4c	Number of dumps within lease area and outside of lease area	Not proposed.	No waste dumps in the lease area & outside lease area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed.	No waste dumps in the lease area & outside lease area.	
4e	Number of active and alive dumps.	Not proposed.	Not applicable.	
4f	Number of dead dumps.	Not proposed.	Not applicable.	
4g	Number of dumps established.	Not proposed.	Not applicable.	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed.	Not applicable.	
4i	Length of Retaining wall or garland drain all along dumps	Not proposed.	Not applicable.	
4j	Number of settling ponds	Not proposed.	Not applicable.	
4k	Specific comments of inspecting officer on waste dump management	Not proposed.	Not applicable.	The generated waste & o/b utilised for backfilling as proposed.

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Solid Waste Management - Backfilling:

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Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	During the year o/b subsoil & interburden waste is proposed for backfilling in southern side excavated lease boundary.	About 0.18ha. lease boundary backfilled upto 15m. hight as proposed.	
5b	Area under backfilling of mined out area	0.18ha.	About 0.18ha. lease boundary backfilled upto 15m. hight as proposed.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed	Not applicable.	
5d	Total area fully reclaimed and rehabilitated	Not proposed.	Not applicable.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not proposed.	Not applicable.	Lessee has started backfilling in proposed site which is in initially stage.

#### 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).	proposed	The PMCP report of 2021-22 submitted.	
6b	Area available for rehabilitation (ha) .	.18ha.	.18 ha. area backfilled upto 15m. hight.	
6c	afforestation done (ha).	32 trees in 16sq.m. area.	Cumulative about 50-60 trees survived with new plantation so for.	

6d	No. of saplings planted during the year	32 saplings.	Cumulative about 50-60 trees survived with new plantation about 25 saplings so far.
6e	Cumulative no .of plants	Not proposed.	Cumulative about 50-60 trees survived.
6f	Any other method of rehabilitation	Not proposed.	Not applicable.
6g	Cost incurred on watch and care during the year	Not proposed.	About 1 lakhs for the year.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Backfilling proposed in southern excavated lease boundary in .18ha. area.	Done as proposed.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	13612 cu.m. waste & o/b proposed to be backfilled.	About 11600 cu.m.waste & o/b backfilled as proposed.
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 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.	
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)	proposed	Envirnomental monitoring done periodically.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not proposed	Not applicable	The mining operations carried out more or less as proposed in approved document with proper backfilling,plantation 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	ROM Mineral dispatch after sizing & sorting proposed	ROM Mineral dispatch done after proper sizing & sorting as proposed.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No grade wise sorting proposed	ROM mineral dispatched gradewise as per chemical analysis basis and experience of working.	

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7c	Different grade of mineral sorted out at mines.	Not proposed	Not applicable	
7d	Any beneficiation process at mines .	No beneficiation proposed	Not done.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not proposed	Not applicable	ROM Mineral dispatch done after proper sizing & sorting , gradewise as per chemical analysis basis and experience of working.

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**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No topsoil only o/b sub soil removal proposed.	Not applicable.	
8b	Concurrent use or storage of topsoil	Not proposed	Not applicable.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not proposed.	The generated o/b sub soil & interburden waste proposed for backfilling & accordingly done.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	During the year o/b subsoil & interburden waste is proposed for backfilling in southern side excavated lease boundary.	About 0.18ha. lease boundary backfilled upto 15m. hight as proposed.	

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8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling proposed	Backfilling done as proposed.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation of 32 trees proposed.	No existence of old plantation only about 50-60 trees plantation present.	
8g	Survival rate	90%	About 80-85%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Done as proposed as per requirement.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not proposed	Not applicable	The mining operations carried out more or less as proposed in approved document with proper pitting, backfilling, plantation etc. due to mining/degradation the area disturbed in some way and pollution created but plantation and water spraying on roads minimise it.

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#### Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly & annual returns to be submitted in time.	A.R. Submitted upto 2021-22. M.R. Submitted upto May - 2022	

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer & Geologist appointed.	Mining Engineer & Geologist appointed in this mine.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pits-1.12ha.	In actual in pits 1.2ha.	Lessee has not submitted upto date plan & sections & digital aerial images as required hence violations of rule 33 & 34A pointed out
9d	Scrutiny of Annual return on afforestation	32 trees	About 25 trees survived observed with 75% survival rate.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not proposed	Not generated	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Stock-nil & BF grade limestone-8920 t.	In actual Limestone mineral stack of about 10000 tonnes observed in the lease area.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value & ex mine price for limestone mineral is Rs. 413/-t .Cost of production Rs. 335/t	The details furnished seems to be appropriate.	
9h	Scrutiny of Annual return on fixed assets	Fixed assets Rs. 0/-	Fixed assets not available within lease area except mining machineries deployed in the mine.	
9k	Scrutiny of Annual return on mining machineries	Dumpers & excavator combination	In actual dumpers & excavator deployed.	

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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)	04-JUL-22			
MCDR17	Rule 33	04-JUL-22			
MCDR17	Rule 34(2)	04-JUL-22			

**Date :**

**(JAY KUMAR PANDEY)**

Indian Bureau of Mines