

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/KTN/LST-96

Mine code : 38MPR18134

- (i) Name of the Inspecting : **C004**) **ROBERT SIMON C**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Vinod Patel Mine Head
Official with
Designation
- (iv) Date of Inspection : 24-FEB-21
- (v) Prev.inspection date : 11-FEB-20

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BISTRA (2.69 AC)**
- (b) **Registration NO.** :
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : KATNI
Village : BISTRA
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 : 21-JUL-87
- (h) Weekly day of rest : SUN
2. Address for : M/S N.M.DUBASH STONE & LIME CO.PVT.LTD.
correspondance : STATION ROAD, P.O. MAIHAR,
3. (a) Lease Number : MPR1996
(b) Lease area : 17.07
(c) Period of lease : 20
(d) Date of Expiry : 05-SEP-20
4. Mineral worked : LIMESTONE Main

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 : S.K.JAIN,Full Time
 Qualification : B.E.(MINING)
 Appointment/ : 01-JUL-00
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	21-AUG-00
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	14-OCT-05
		Modif.approved Mining Scheme	31-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	06-AUG-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	Nil	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	3.87 ha of G2 to be explored in G1.	3.87 ha of G2 to be explored in G1.	
1e	Balance reserve as on 01/04/20	1.67 million tonnes	1.67 million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			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.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 2651302 -N 2651508 and E 444064 -E 444423	N 2651300 - N 2651505 and E 444064 -E 444426	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in OB and mineral proposed	Separate benches in OB and mineral maintained	

2c	Stripping ratio or ore to OB ratio	1:0.1	1:0.1
2d	Quantity of topsoil generation in m3	nil	nil
2e	Quantity of overburden generation in m3	21420 m3	21059 m3
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one	one	
3b	Quantity of ROM mineral production proposed	214200 tonnes	210587 tonnes	
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.	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 beneficiation study proposed	no analysis or beneficiation study carried out
3j	Provision of drilling and blasting in mineral benches	proposed	as per proposal
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	proposed	bench height found to be suitable
3m	Total area covered under excavation/pits	9.6 ha	9.6 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.1	1:0.1
3o	Total area put in use under different heads at the end of year	15.1 ha	15.1 ha
3p	Production of ROM mineral during the last five year period as applicable	2015-16 250820 2016-17 234300 2017-18 240300 2018-19 215880 2019-20 214200	2015-16 133580 2016-17 94850 2017-18 212581 2018-19 147480 2019-20 210587

3q General remarks
of inspecting
officers on
method of mining
etc.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of topsoil, OB and mineral proposed	Separate dumping of topsoil, OB and mineral maintained	
4b	Location of topsoil, OB and mineral reject dumps	proposed	as per proposal	
4c	Number of dumps within lease area and outside of lease area	03 (three) nos. within ML area	03 (three) nos. within ML area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within Ultimate Pit Limit	Within Ultimate Pit Limit	
4e	Number of active and alive dumps.	03 nos	03 nos	
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.	proposed	garland drain of 300m(approx.) maintained	
4i	Length of Retaining wall or garland drain all along dumps	proposed	garland drain of 300m(approx.) maintained	
4j	Number of settling ponds	01	01	

4k Specific comments of inspecting officer on waste dump management

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.	part extraction of mineral from mined out area proposed before starting backfilling.	part extraction of mineral from mined out area adopted before starting backfilling.	
5b	Area under backfilling of mined out area	1.5 ha	1.5 ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	proposed for plantation	as per proposal	
5d	Total area fully reclaimed and rehabilitated	1.5 ha	1.5 ha	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			

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	not submitted	violation pointed out

6b	Area available for rehabilitation (ha) .	1.5 ha	1.5 ha	
6c	afforestation done (ha).	not proposed	1.5 ha	
6d	No. of saplings planted during the year	800 nos	500 nos (approx.)	violation pointed out
6e	Cumulative no .of plants	not proposed	details not available	
6f	Any other method of rehabilitation	not proposed	not done	
6g	Cost incurred on watch and care during the year	not proposed	details not available	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	1.5 ha	1.5 ha	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	1.5 ha	1.5 ha	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	800 nos of plantation proposed	500 nos (approx.) of plantation observed	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	not proposed	nil	

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	not proposed	nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	proposed	as per proposal	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			The Lessee has not submitted Annual Retun and PMCP for 2019-20 as per provision.Hence violation pointed out.

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 done	

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	no grade wise sorting proposed	not done
7c	Different grade of mineral sorted out at mines.	NA	NA
7d	Any beneficiation process at mines	no beneficiation proposed	not done
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	proposed	as per proposal	
8b	Concurrent use or storage of topsoil	used for plantation	used in plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for overburden/waste rock proposed	Separate dumps for overburden/waste rock maintained	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed for backfilling	as per proposal	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed	as per proposal
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed	500 nos of plantation within lease
8g	Survival rate	80%	70%
8h	Water sprinkling on roads to control airborne dust	proposed	as per proposal
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	proposed	A.R. Submitted upto 2019-20. M.R. Submitted upto March - 2021	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	proposed	Manager & Mining Engineer in charge - Shri Vinod Kumar.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.	proposed	(i) Already exploited & abandoned by opencast (O/C) mining 2.000 (ii) Covered under current (O/C) Workings 7.600 (iii) Reclaimed/Rehabilitated 1.500 (iv) Used for waste disposal 3.000 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.400 (vi) Other Purpose ((LIMESTONE STOCK)) 1.000 (vii) Work done under pmcp during the year 0.100
9d	Scrutiny of Annual return on afforestation	proposed	Number of trees planted during the year 500nos (within lease)& 800 nos (outside lease)
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	proposed	nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	proposed	nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	proposed	Ex-mine price (in Rs.Per Tonne) for SMS grade limestone-415.45
9h	Scrutiny of Annual return on fixed assets	proposed	as per proposal

9k	Scrutiny of proposed Annual return on mining machineries	DUMPER 10.000 TONNE 12 nos BACK HOE 0.900 CUM 2 nos AIR COMPRESSOR 325.000 CUM/MN 1 no M.T.P. (ELEC. MOTOR) 100.000 HP 1 no Electrical FRONT END LOADER 2.000 CUM 2 nos GENERATOR (DIESEL) 125.000 KWH 1 no WATER TANKER 3000.000 LITRE 1 no
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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)	12-MAR-21	25-MAY-21				
MCDR17	Rule 26(2)	12-MAR-21	25-MAY-21				
MCDR17	Rule 33	12-MAR-21	25-MAY-21				

Date :

(ROBERT SIMON C)

Indian Bureau of Mines