

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

**MCDR inspection REPORT  
Jabalpur regional office**

**Mine file No :** MP/STN/LST-184

**Mine code :** 38MPR35119

- (i) Name of the Inspecting : **C004** ) **ROBERT SIMON C**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Shyamal Kishor, Shri Shashi Kant Patel (Mine manag  
Official with  
Designation
- (iv) Date of Inspection : 10-FEB-21
- (v) Prev.inspection date : 16-JAN-20

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **BHATOORA ( 4.047HT )**
- (b) **Registration NO.** :
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address  
State : MADHYA PRADESH  
District : SATNA  
Village : BHATOORA  
Taluka : MAIHAR  
Post office : AJWAIN  
Pin Code : 485771  
FAX No. : N. A.  
E-mail : N. A.  
Phone : N. A.
- (f) Police Station : BADERA
- (g) First opening date : 01-JAN-85
- (h) Weekly day of rest : SUN
2. Address for : M/S S.N.S.(MINERALS) LTD.  
correspondance : P.O. MAIHAR,  
DIST. SATNA (M.P.) 485771
3. (a) Lease Number : MPR0465  
(b) Lease area : 4.05  
(c) Period of lease : 20  
(d) Date of Expiry : 21-DEC-21
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : S.N.S.(MINERALS) LTD.  
P.O. KACHANGAON, VIA  
KYMORE, JUKEHI (C.RLY),  
KATNI MADHYA PRADESH  
Phone:07674-232042  
FAX :07674-232042

Owner : S.N.S.(MINERALS) LTD.  
P.O. KACHANGAON, VIA  
KYMORE, JUKEHI (C.RLY),  
KATNI MADHYA PRADESH  
Phone: 07674-233648  
FAX : N. A.

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	09-JUN-99
Plan/Scheme of Mining		Renewal under rule 24 MCR1960	22-DEC-04
		Mining Scheme rule 12 MCDR1988	15-NOV-11
		Mining Scheme rule 12 MCDR1988	17-JUN-13
		MP review under 17(1) MCR 2016	10-OCT-18

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Not proposed	NA	
1b	Exploration over lease area for geological axis 1 or 2	Not proposed	G2 : 4.047 HA.	
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	G2 : 4.047 HA.	G2 : 4.047 HA.	
1e	Balance reserve as on 01/04/20	0.047 Million Tonne	0.047 Million Tonne	
1f	General remarks of inspecting officers on geology, exploration etc			

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N - 2664440 to 2664550 E - 466990 to 467145	N - 2664440 to 2664550 E - 466990 to 467145	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	LS- 2 benches (7.5m x 7.5m & 7.5m x 7.5m)	during inspection it was found that the width of the benches was not maintained properly resulting in increased bench height between the grid coordinates 2664430 N to 2664500 N & 466950 E to 466980 E.	violation pointed out
2c	Stripping ratio or ore to OB ratio	1:0.044	1:0.045	

2d	Quantity of topsoil generation in m3	Not Proposed	NIL
2e	Quantity of overburden generation in m3	3266 m3	3200 m3
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		

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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one	one	
3b	Quantity of ROM mineral production proposed	73492.000 M.T.	70500.000 M.T.	
3c	Recovery of sailable/usable mineral from ROM production	NIL	NIL	
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NIL	
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	NIL	NIL	

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3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA	
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	it was proposed to maintain benches of 7.5m height and 7.5m width in quarry 2 of the mine area	during inspection it was found that the width of the benches was not maintained properly resulting in increased bench height between the grid coordinates 2664430 N to 2664500 N & 466950 E to 466980 E	violation pointed out.
3m	Total area covered under excavation/pits	3.400 HA.	3.400 HA.	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.044	1:0.045	
3o	Total area put in use under different heads at the end of year	3.508 HA.	3.508 HA.	
3p	Production of ROM mineral during the last five year period as applicable	2015-16 73490.000 MT 2016-17 42187.000 MT 2017-18 42187.000 MT 2018-19 57865.000 MT 2019-20 73492.000 MT	2015-16 72500.000 MT 2016-17 20200.000 MT 2017-18 0.000 MT 2018-19 57800.000 MT 2019-20 70500.000 MT	

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

during inspection it was found that the width of the benches was not maintained properly resulting in increased bench height between the grid coordinates 2664430 N to 2664500 N & 466950 E to 466980 E. Therefore violation of rule 11(1) of MCDR 2017 was pointed out.

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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)	Proposed	As per proposal	
4b	Location of topsoil, OB and mineral reject dumps	Western portion of the lease	Western portion of the lease	
4c	Number of dumps within lease area and outside of lease area	01 no within lease	01 no within lease	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside ultimate pit limit Between pillar no. 02 & 03	outside ultimate pit limit Between pillar no. 02 & 03	
4e	Number of active and alive dumps.	01	01	
4f	Number of dead dumps.	Not proposed	NIL	
4g	Number of dumps established.	01	01	

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4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain not proposed	Garland drain constructed	
4i	Length of Retaining wall or garland drain all along dumps	NA	Garland drain 200m x 1.5m x 1m	
4j	Number of settling ponds	Not proposed	NIL	
4k	Specific comments of inspecting officer on waste dump management			waste dump management was carried out by an large in line with the approved mining plan.

#### 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 proposed before backfilling	Full extraction before backfilling adopted	
5b	Area under backfilling of mined out area	0.9 Ha	0.9 Ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Top soil proposed to be used in plantation	Top soil used in plantation	
5d	Total area fully reclaimed and rehabilitated	1.00 ha	1.00 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).	Yes	Not submitted	violation pointed out under rule 26(2) of MCDR 2017.
6b	Area available for rehabilitation (ha) .	NA	NA	
6c	afforestation done (ha).	1.00 ha	1.00 ha	
6d	No. of saplings planted during the year	500 nos	350 nos	violation pointed out under rule 11(1) of MCDR 2017.
6f	Any other method of rehabilitation	plantation	plantation	
6g	Cost incurred on watch and care during the year	NA	NA	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	10500 sqm	10500 sqm	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	9000 sqm	9000 sqm	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	3000 sqm	3000 sqm	

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	
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	carried out	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP compliance & progressive closer operations wrt to afforestation is lagging behind the approved proposals of the approved document and hence violation pointed out under rule 11(1) of MCDR 2017.

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## Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grading, Sorting & Sizing proposed within ML.	Grading, Sorting & Sizing carried out within ML.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines.	Not proposed	NA	
7d	Any beneficiation process at mines .	Not proposed	NA	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			beneficiation not carried out.ROM directly sold.

## 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	Proposed	As per proposal	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed	As per proposal	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	NA	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	yes	350 saplings planted.	
8g	Survival rate	80%	85%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Water sprinkling carried out.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			aesthetic beauty in and around mine area is 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	yes	MR submitted upto March 2021 AR submitted upto 2019-20	

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	furnished	Manager & Mining Engineer - Shri Shashi Kant Patel Geologist- Shri Manoj Kumar Tripathi
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	furnished	(i) Already exploited & abandoned by opencast (O/C) mining 3.300 (ii) Covered under current (O/C) Workings 0.100
9d	Scrutiny of Annual return on afforestation	furnished	(i) Number of trees planted during the year 350 nos (ii) Survival rate in percentage 85%
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	furnished	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	furnished	Cement Grade Closing Stock 45422.330 MT.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	furnished	Ex mine price Rs. 381.52
9h	Scrutiny of Annual return on fixed assets	furnished	Value of Fixed Assets Rs. 29777169-/-
9k	Scrutiny of Annual return on mining machineries	furnished	AIR COMPRESSOR 175.000 CUM/MN 1 no Non Electrical ROCK DRILL (NONELEC.) 122 MM 1 no Non Electrical

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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)	23-MAR-21			
MCDR17	Rule 26(2)	23-MAR-21			
MCDR17	Rule 33	23-MAR-21			

**Date :**

**(ROBERT SIMON C)**

Indian Bureau of Mines