

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/STN/LST- 296

Mine code : 38MPR35230

- (i) Name of the Inspecting : **G006**) **ABHISHEK RANJAN GAUTAM**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : **SHRI KUMAR SHYAMAL KISHOR, MANAGER**
Official with
Designation
- (iv) Date of Inspection : 08-NOV-21
- (v) Prev.inspection date : 10-FEB-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **TILaura LIMESTONE (S.N.S)**
- (b) **Registration NO.** : **IBM/1171/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : SATNA
Village : TILaura
Taluka : MAIHAR
Post office : PAHADEE
Pin Code : 485771
FAX No. : 07674- 232580
E-mail : snsmhr@gmail.com
Phone : 07674- 232042
- (f) Police Station : Maihar
- (g) First opening date :
- (h) Weekly day of rest :
2. Address for : M/S S.N.S.(MINERALS) LTD.
correspondance P.O. MAIHAR, DIST. SATNA (M.P.) 485771
3. (a) Lease Number : MPR1542
(b) Lease area : 3.77
(c) Period of lease : 20
(d) Date of Expiry : 10-DEC-15
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	:	Mining Scheme rule 12 MCDR1988	30-NOV-07
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	15-NOV-11
		Mining Scheme rule 12 MCDR1988	16-APR-15
		Renewal under rule 24 MCR1960	26-JUN-15
		MP review under 17(1) MCR 2016	30-JUN-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	02 Bore Holes	02 Bore Holes	
1b	Exploration over lease area for geological axis 1 or 2	G1 = 1.74 ha. G2 = 2.034 ha	G1 = 1.74 ha. G2 = 2.034 ha	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Rs. 200000.00	RK Drilling Services, Irarsi Rs. 200000.00	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	
1e	Balance reserve as on 01/04/20		Balance reserve as on 01/04/2021 - 0.2583 Million tonne	
1f	General remarks of inspecting officers on geology, exploration etc			Exploration work of 02 bore hole has been complete

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	2683150 N to 2683250 N 483270 E to 483367 E	2683150 N to 2683250 N 483270 E to 483367 E	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, Mineral 01 bench (4 m x 4 m)	Mineral 01 bench (4 m x 4 m)	
2c	Stripping ratio or ore to OB ratio	1:0.11	1:0.10	
2d	Quantity of topsoil generation in m3	Not proposed	Not applicable	

2e	Quantity of overburden generation in m3	920 cum	Nil	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 and not as per the proposals of approved document.Hence violation under rule 11(1) was pointed out.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01 pit	01 pit	
3b	Quantity of ROM mineral production proposed	20700 MT	20700 MT	
3c	Recovery of sailable/usable mineral from ROM production	Not proposed	Not applicable	
3d	Quantity of mineral reject generation	Not proposed	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 applicable	
3g	Grade of sub grade mineral generation	Not proposed	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	

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	as per proposal
3k	Provision of mining machineries in mineral benches	The mine working was proposed by B cat. manual means.	As per proposal
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	proposed	as per proposal
3m	Total area covered under excavation/pits	0.186 HA.	0.186 HA.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.11	1:0.10
3o	Total area put in use under different heads at the end of year	0.196 HA.	0.196 HA.
3p	Production of ROM mineral during the last five year period as applicable	2016-17 25005.000 MT 2017-18 15187.000 MT 2018-19 18170.000 MT 2019-20 24975.000 MT 2020-21 20700.000 MT	2016-17 0.000 MT 2017-18 0.000 MT 2018-19 0.000 MT 2019-20 24900.000 MT 2020-21 20700.000 MT

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

Opencast manual
method of mining
is existing in the
lease area.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dump of OB Soil and Mineral proposed	separate dumps maintained for OB, Soil and Mineral.	
4b	Location of topsoil, OB and mineral reject dumps	Within lease area	Within lease area	
4c	Number of dumps within lease area and outside of lease area	Nil	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not application	Not application	
4e	Number of active and alive dumps.	NA	NA	
4f	Number of dead dumps.	NA	NA	
4g	Number of dumps established.	NA	NA	
4h	Whether Retaining wall or garland drain all along dumps are there.	NA	NA	
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	
4j	Number of settling ponds	NA	NA	

4k	Specific comments of inspecting officer on waste dump management	Temporary dumps were maintained within lease.
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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. However So far backfilling of mined out area has not been proposed. Only mined out area of statutory barrier zone was proposed to be backfilled.	Proposed backfilling of statutory barrier zone was not found backfilled.	Violation of rule 11(1) pointed out for proposed backfilling
5b	Area under backfilling of mined out area	0.090 ha. (Backfilling proposed in 7.5 meter barrier zone)	0.090 ha. (As per proposal backfilling was not done.)	Violation of rule 11(1) pointed out for proposed backfilling
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	The generatyed top soil during mining operation was proposed toutilised in toping of proposed backfilled statutory 7.5m barrier zone.	Evidence of concorent utilisation of top soil were not seen within the lease area	Violation pointed out.
5d	Total area fully reclaimed and rehabilitated	Not Proposed	NIL	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Violation of rule 11(1) pointed out for proposed backfilling
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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	NIL	
6c	afforestation done (ha).	Not Proposed	20 plants	
6d	No. of saplings planted during the year	Not Proposed	20 plants	
6e	Cumulative no .of plants	NA	Not available	
6f	Any other method of rehabilitation	Not Proposed	Nil	
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	3500 sqm	3500 sqm	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	3300 sqm	3250 sqm	

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	70 plants	70 plants
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)	Yes (June 2021)	Yes (June 2021)

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Yearly PMCP report submitted for the year 2020-21
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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 proposed within ML.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	Not proposed	Nil	
7d	Any beneficiation process at mines .	Not proposed	Not application	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM directly sold and no beneficiation is carried out.

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	used in plantation	
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	Not applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	Not applicable	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Not proposed	Not applicable	
8g	Survival rate	Not proposed	Not applicable	
8h	Water sprinkling on roads to control airborne dust	Yes	Carried out as per proposal	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The aesthetic beauty in and around the mines was found to be mediocre.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	yes	MR submitted upto Oct 2021 AR submitted upto 2020-21
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Mining Engineer - Shri Ram Bihari Bagri Geologist- Shri Satish Sonii
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		1. Already exploited & abandoned by opencast (O/C) mining - 1.660 ha. 2. Covered under current (O/C) Workings - 0.186 0 3. Reclaimed/Rehabilitated - 0.031
9d	Scrutiny of Annual return on afforestation		Number of trees planted during the year 20 nos Survival rate in percentage 80.00
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NA	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore		Cement Grade Closing Stock 640.150 MT
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		Ex mine price Rs. 394.00 Cost of Production - Rs 270
9h	Scrutiny of Annual return on fixed assets		Value of Fixed Assets (in Rs) 61694
9k	Scrutiny of Annual return on mining machineries		AIR COMPRESSOR 175.000 cum/min 1 no Non Electrical ROCK DRILL 30 MM 1 no.

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)	24-NOV-21				
MCDR17 Rule 46(a)	24-NOV-21				

Date :

(ABHISHEK RANJAN GAUTAM)

Indian Bureau of Mines