

**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 : **KQ06**) **NARESH KUMAR KATARIYA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : SHRI KUMAR SHYAMAL KISHOR (Rep of Lessee), Shri Manoj
Official with
Designation
- (iv) Date of Inspection : 08-SEP-22
- (v) Prev.inspection date : 08-NOV-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	NIL	NA	
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	Not Specified	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	G2 = 2.034 ha	The area is required to be explored under G1 axis. Violation pointed out for the same under rule 11(1) of MCDR - 2017.
1e	Balance reserve as on 01/04/20		Balance reserve as on 31.03.2022 is 0.2336 MT	

1f	General remarks of inspecting officers on geology, exploration etc	Not proposed	NA	The occurrence of limestone in the applied area is stratigraphically controlled and is associated with Bhandar Group of Vindhyan Super Group. Rock of this formation comprise of shale, limestone and dolomite. These rocks are structurally undisturbed having general trend in WNW-ESE with low dip or 10-20 North. Limestone is fine to medium grained, light grey to dark grey in colour. Dark grey is softer than light grey limestone and gives vigorous effervescence with hydrochloric acid.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	2683140 N to 2683210 N 483280 E to 483388 E	2683140 N to 2683210 N 483280 E to 483388 E	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Soil/Reject stone = 01 bench (4m x 4m) OB/ Reject stone = 01 bench (1.5m x 1.5m) Mineral = 01 bench (5 m x 5 m)	Soil/Reject stone = 01 bench (4m x 4m) OB/ Reject stone = 01 bench (1.5m x 1.5m) Mineral = 01 bench (5 m x 5 m)	

2c	Stripping ratio or ore to OB ratio	1:1.39	1:1.38	
2d	Quantity of topsoil generation in m3	1060 cum	1000 cum	
2e	Quantity of overburden generation in m3	12898 cum	12700 cum	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development of pit : Development in South-East part of the quarry. Types of deposit : The deposit is bedded, stratiform and tabular deposit of regular habit.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	24993 MT	24800 MT	
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.	Not applicable	Not applicable	
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	MANUAL	MANUAL	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal	Not done	
3j	Provision of drilling and blasting in mineral benches	Yes	Yes	
3k	Provision of mining machineries in mineral benches	NO	NO	B catagory Manual Mine.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	YES	YES	
3m	Total area covered under excavation/pits	0.2120 HA.	0.2120 HA.	
3n	Ore to OB ratio for the pit/mine during the year.	1:1.39	1:1.38	
3o	Total area put in use under different heads at the end of year	1.822 HA.	1.822 HA.	

3p	Production of ROM mineral	2017-18 15187 MT	2017-18 15187 MT	0.000
	during the last five year period as applicable	2018-19 18170 MT	2018-19 18170 MT	0.000
		2019-20 24975 MT	2019-20 24975 MT	24900
		2020-21 20700 MT	2020-21 20700 MT	20700
		2021-22 24993 MT	2021-22 24993 MT	24800

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

Open cast manual method of mining will be adopted in the lease area in future as carried out in past. While planning the proposal economic depth of the pit for minimum degradation of land has been considered. In order to prevent haphazard excavation of pits, proposal has been given at one place to mine the left out limestone from bottom of the quarry. Sorting and sizing will be done manually.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Not proposed	Working in the existing pit.	No top soil, OB or Mineral reject generation in the RY.
4b	Location of topsoil, OB and mineral reject dumps	Not proposed	Not applicable	

4c	Number of dumps within lease area and outside of lease area	Not proposed	NIL	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	Not applicable	
4e	Number of active and alive dumps.	Not proposed	NIL	
4f	Number of dead dumps.	Not proposed	NIL	
4g	Number of dumps established.	Not proposed	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed	NA	
4i	Length of Retaining wall or garland drain all along dumps	Not proposed	NA	
4j	Number of settling ponds	Not proposed	NA	
4k	Specific comments of inspecting officer on waste dump management			OB/waste has been used in backfilling in mined out area as per records. No dumps in the lease area.

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.	Yes	Full extraction of mineral before backfilling as per records.	
5b	Area under backfilling of mined out area	0.330 ha.	0.330 ha.	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Top soil proposed to be used in backfilling & plantation	Top soil used in backfilling & plantation	
5d	Total area fully reclaimed and rehabilitated	0.330 ha.	0.330 ha.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Reclamation has been done by backfilling as per proposal in 2021-22.

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	Yearly PMCP report submitted for the RY 2021-22.
6b	Area available for rehabilitation (ha) .	Not proposed	NA	
6c	afforestation done (ha).	Not proposed	NA	
6d	No. of saplings planted during the year	Not proposed	100 saplings	
6e	Cumulative no .of plants	Not specified	Plantation observed in the green belt and other area. total 710 plants as per record	
6f	Any other method of rehabilitation	Not proposed	NA	
6g	Cost incurred on watch and care during the year	Not proposed	NA	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.45 ha.	0.45 ha.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.33 ha.	0.33 ha.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	0.064 ha.	0.064 ha.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	Not done
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed	Not done
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not proposed	NA
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not proposed	NA

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not proposed	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Yes (May 2022)	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP compliance submitted for 2021-22 . Plantation done in the .064 Hect area.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Direct dispatch of Lime stone from ML/mine.	Direct dispatch of Lime stone from ML/mine.	
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	NA	
7d	Any beneficiation process at mines .	Not proposed	NA	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Direct dispatch of Lime stone from ML/mine above 34 CaO as per records.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	Utilization of Top Soil for plantation.	
8b	Concurrent use or storage of topsoil	Proposed	Top soil used for plantation as per records.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not proposed	No dumps observed in the ML area.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	OB proposed for Backfilling	OB used in Backfilling as per records.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Backfilling of mined out area and plantation on the backfilled area.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed	64 plants in Backfilled area	
8g	Survival rate	Not Proposed	80%	
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			plantation observed within and outside the lease area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Monthly Return submitted upto July 22 Annual Return submitted upto 2021-22. AR for the year 2021-22 is submitted on 28.06.2022.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	Mining Engineer - Shri Ram Bihari Bagri Geologist - Shri Satish Kumar Soni	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	(i) Already exploited & abandoned by Opencast (O/C) mining = 1.600 ha. (ii) Covered under current (O/C) Workings = 0.212 ha. (iii) Reclaimed/Rehabilitated : 0.330 ha. (iv) Used for waste disposal : 0.000 ha. (v) Occupied by plant, buildings, residential, welfare buildings & roads : 0.000 ha. (vi) Other Purpose : 0.000 ha. (vii) Work done under progressive mine closure plan during the year : 0.330 ha.	
9d	Scrutiny of Annual return on afforestation	Yes	(i) Number of trees planted during the year 64 nos in B/F area. (ii) Survival rate in percentage 80%	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Yes	NIL	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	Cement Grade Closing Stock 825.550 MT	

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	Sale value : Rs. 9757159.70 Ex mine price Rs. 412.00 Production cost : Rs. 257.00
9h	Scrutiny of Annual return on fixed assets	Yes	Value of Fixed Assets (in Rs) 368640.00
9k	Scrutiny of Annual return on mining machineries		S. No MACHINERY CAPACITY NO. OF UNITS 1 AIR COMPRESSOR 175 CUM/MN 1 2 ROCK DRILL (NON ELECC.)122MM 1 3 BACK HOE 1CUM 1 4 DUMPER 16 T 2

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

Date :

(NARESH KUMAR KATARIYA)

Indian Bureau of Mines