

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

**MCDR inspection REPORT  
Jabalpur regional office**

**Mine file No :** MP/KTN/LST-51

**Mine code :** 38MPR18037

- (i) Name of the Inspecting : **SQ05** ) **DEEPAK SHARMA**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine :  
Official with  
Designation
- (iv) Date of Inspection : 29-NOV-19
- (v) Prev.inspection date : 13-MAR-19

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **JAMUWANI KALAN-II (8.584H)**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address  
State : MADHYA PRADESH  
District : KATNI  
Village : JAMUWANIKALAN  
Taluka : VIJAYRAGHAVGARH  
Post office : JAMUWANIKALAN  
Pin Code :  
FAX No. : NIL  
E-mail : NIL  
Phone : NIL
- (f) Police Station : KYMORE
- (g) First opening date : 01-JAN-78
- (h) Weekly day of rest : WED
2. Address for : M/S S.N.S.(MINERALS) LTD.  
correspondance P.O. MAIHAR,  
DIST. SATNA (M.P.) 485 771
3. (a) Lease Number : MPR0266
- (b) Lease area : 3.5
- (c) Period of lease : 20
- (d) Date of Expiry : 17-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.

## Mining Engineer

Name : BALRAM SINGH, Part Time  
 Qualification : B.Sc.(Mining), A.I.S.M  
 Appointment/ :  
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	21-MAR-95
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	03-NOV-08
		Mining Scheme rule 12 MCDR1988	25-APR-13
		Mining Scheme rule 12 MCDR1988	13-MAY-15
		Renewal under rule 24 MCR1960	14-MAY-15

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration proposed during the year	no exploration carried out during the reporting year	
1b	Exploration over lease area for geological axis 1 or 2	G2	G2	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None	Not applicable.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	area explored upto G2 level	Area explored upto G2 level	
1e	Balance reserve as on 01/04/20	as on 01/04/2015 111-0 122-1.867950 m tonnes 222-1.2686 m tonnes	as on 01/04/2018 111-0 122-1.582445 m tonnes 222-1.2686 m tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			Limestone belonging to Rohtas Formation of Semri Group .Laterite is found on the southern face of the Quarry and Soil on the Northern Face. These are underlain by alternate bands of Limesotne and Shale.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Quarry no 1 towards south and east	Quarry No 2 towards south and eartern portion of the lease area	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	OB bench of 2.5 meter (one bench) Shale /1st bench 5.0 meter (four benches)	OB bench of 2.5 meter (one bench) Shale /1st bench 5.0 meter (three benches) as per proposal water logged pit fourth bench could not be varified. dewatering was in progress	
2c	Stripping ratio or ore to OB ratio	1:0.74	1:0.80	
2d	Quantity of topsoil generation in m3	17700 cubic meter	12500 cubic meter	
2e	Quantity of overburden generation in m3	35990 cubic meter	35667 cubic meter	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development has been done at proposed location total proposed benches could not be varified due to water logged pit. dewatering was in progress.

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	179900	2000	
3c	Recovery of sailable/usable mineral from ROM production	75-80 %	80% w.r.t ROM & 60% w.r.t total material (% varies due to encounter of shale)	

3d	Quantity of mineral reject generation	Not proposed	None
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable
3f	Quantity of sub grade mineral generation.	Not proposed	NIL
3g	Grade of sub grade mineral generation	Not applicable	Not applicable
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized method proposed	Mechanized method adopted (screening)
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	NIL
3j	Provision of drilling and blasting in mineral benches	Proposed	Drilling and blasting is done in benches.
3k	Provision of mining machineries in mineral benches	Proposed	HEMM is being used in mineral benches excavator loader and dumpers
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	suitable heights proposed as per approved mining plan	height of OB and mineral benches are suitable for mining as per approved mining plan
3m	Total area covered under excavation/pits	1.112	1.110
3n	Ore to OB ratio for the pit/mine during the year.	1:0.74	1:0.88

3o	Total area put in use under different heads at the end of year	2.192	1.772	
3p	Production of ROM mineral during the last five year period as applicable	2014-15-200000 2015-16-130600 2016-17-165227 2017-18-177540 2018-19-179900	2014-15-38000 2015-16-92500 2016-17-128800 2017-18-266040 2018-19-2000	
3q	General remarks of inspecting officers on method of mining etc.			HEMM is being used in the lease area, benches of OB and Mineral bench suitable for mining as per approved mining plan

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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)	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	OB dump in the north west of the lease area Soil dump in the northern portion OB/waste dump in the central portion of the lease area	1 OB dump in the north west of the lease area 2 Soil dump in the northern portion 3 OB/waste dump in the central portion of the lease area	
4c	Number of dumps within lease area and outside of lease area	dumps proposed within lease area	dumps are within lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	within UPL due to small area	Within UPL due to small area	
4e	Number of active and alive dumps.	not proposed	One OB/waste dump alive	

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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.	Garland drain and retaining wall proposed	Garland drain has been made along the slope of the hill 500x1x1 retaining wall has been made 50x1x1	
4i	Length of Retaining wall or garland drain all along dumps	proposed	Garland drain has been made along the slope of the hill 500x1x1 retaining wall has been made 50x1x1	
4j	Number of settling ponds	01	01	
4k	Specific comments of inspecting officer on waste dump management			waste is being used for Reclamation and Rehabilitation of mined out area/pit simultaneously

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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	Full extraction before backfilling	
5b	Area under backfilling of mined out area	1.30	1.30	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	plantation proposed for generated top soil	plantation over backfilled area is being done from generated top soil	

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5d	Total area fully reclaimed and rehabilitated	1.30	1.30	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Reclamation and Rehabilitation of mined out area/pit is in process after full extraction of mineral

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Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	proposed	not submitted	violation for the same issued
6b	Area available for rehabilitation (ha) .	1.30	1.30	
6c	afforestation done (ha).	proposed	NIL	
6d	No. of saplings planted during the year	proposed	NIL	
6e	Cumulative no .of plants	not proposed	2000 approx	
6f	Any other method of rehabilitation	Not proposed	NIL	
6g	Cost incurred on watch and care during the year	Not proposed	NIL	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( L x B x D	13000 sq m	11500 sq m	

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6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	11000 sq m	9500 sq m
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Not proposed	NIL
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	not proposed	NIL
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Not proposed	NIL
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Not proposed	NIL

6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	as per approved mining plan
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations 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	Gradewise sorting within the ML proposed	Both ROM dispatch and gradewise sorting within the ML	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Both manual and mechanical	Both manual and mechanical adopted as per requierment	
7c	Different grade of mineral sorted out at mines.	not proposed	NIL	
7d	Any beneficiation process at mines .	Not proposed	NIL	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Mineral is sold as ROM after sorting and grading depending upon demand

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#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Seperate removal and utilization proposed	Separate removal and utilization is in process for planttaion /afforestation
8b	Concurrent use or storage of topsoil	proposed for planttaion	is being used in planttaion over backfilled area
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed	as per proposal separate dumps maintained
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed	OB and waste is being used in backfilling and top soil is being used for planttaion
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	as per proposal
8g	Survival rate	90%	80%.
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		need improvements

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## Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR submitted upto April 2020 AR submitted upto 2019	MR submitted upto April 2020 AR submitted upto 2019	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Manager- Shri Kumar Shayamal Kishore Mining Engineer-Shri Kumar Shayamal Kishore Geologist- Shri Manoj Kumar Tripathi	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	furnished	furnished	
9d	Scrutiny of Annual return on afforestation	furnished	furnished	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	furnished	furnished	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	furnished	236 INR cost per tonne	
9h	Scrutiny of Annual return on fixed assets	furnished	26008792 INR for combined leases	
9k	Scrutiny of Annual return on mining machineries	furnished	Air compressor-175m3/min Rock drill- 32.mm	

**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(4)	21-MAY-20			
MCDR17	Rule 26(2)	21-MAY-20			
MCDR17	Rule 33	21-MAY-20			
MCDR17	Rule 45(5) (k	21-MAY-20			
MCDR17	Rule 45(5) (c	21-MAY-20			
MCDR17	Rule 55(1) (3)	21-MAY-20			

**Date :**

**(DEEPAK SHARMA)**

Indian Bureau of Mines