

**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 : **NQ06**) **P.NAHAR**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Shri Kumar Shayamal Kishore, Mining Engineer and Sh
Official with
Designation
- (iv) Date of Inspection : 13-MAR-19
- (v) Prev.inspection date : 26-FEB-18

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	Any exploration not proposed.	None.	----
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	None.	None.	----
1e	Balance reserve as on 01/04/20	----	----	122-9,85,135T 222-10,39,225T.
1f	General remarks of inspecting officers on geology, exploration etc	----	Limestone belonging to Rohtas Formation of Semri Group showing- N60oE-S60oW strike dipping with 12to 15o due South direction.Laterite is found on the southern face of the Quarry	and Soil on the Northen Face. These are underlain by alternate bands of Limesotne and Shale. Any Exploration neither proposed nor carried out.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Northern portion of the Quarry.	Northern portion of the Quarry.	----

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Soil-3m Ht. Shale-Ht.2.0m Limestone I bench-Ht.3.0m Limestone II bench-Ht.6m Limestone III bench-Ht.1m Limestone IV bench-Ht.5.0m Limestone V bench-Ht.6.0m	Laterite bench -Ht. 1m to 1.5m on Southern face and Soil bench -2m ht. on Northern face . Laterite bench -Ht. 2m Shale bench-Ht. 1m Limestone bench I-5m Limestone bench II-5m to 7m Bottom waterlogged.	Separate benches have been formed in Soil ,Laterite, Shale and Limestone.
2c	Stripping ratio or ore to OB ratio	1:0.74	1:0.75	----
2d	Quantity of topsoil generation in m3	15-16-30,300m3 16-17-10800m3 17-18-18540m3 18-19-17700m3	15-16-84,000m3 16-17-5,000m3 17-18-10,500m3 18-19-2000m3 (Till date of inspection)	----
2e	Quantity of overburden generation in m3	15-16-20,150m3 16-17-27,455m3 17-18-37,654m3 18-19-35990m3	15-16-13,712m3 16-17-44,000m3 17-18-55,000m3 18-19-20,000m3 (Till date of inspection)	----
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	----	Development has been done at proposed location by developing separate benches in Soil, Laterite , Shale and Limestone.	It is a Bedded, Stratiform and Tabular Deposit of Regular Habit. Separate benches have been formed in Soil, Laterite, Shale and Limestone. All the benches have been developed along the strike.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	----

3b	Quantity of ROM mineral production proposed	15-16-46,500T 16-17-1,77,540T 17-18-179900T 18-19-193800T	15-16-92,500T 16-17-1,28,800T 17-18-62,205T 18-19-2,000T	----
3c	Recovery of sailable/usable mineral from ROM production	80% w.r.t ROM	80% w.r.t ROM & 60% w.r.t total material.	----
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.	Entire subgrade is utilized after systematic blending.
3g	Grade of sub grade mineral generation	Not applicable.	Not applicable.	----
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized.	Mechanized.	----
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed.	None.	----
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.	Mining machineries are deployed in benches.	----

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	----	Height of benches in OB and mineral are suitable for deployment of mining machinery as well as manual means.	----
3m	Total area covered under excavation/pits	4.42Ha (Till end of proposal period i.e. 2019-20.)	3.0Ha (Till date of inspection)	----
3n	Ore to OB ratio for the pit/mine during the year.	1:0.56	1:0.75	----
3o	Total area put in use under different heads at the end of year	6.683Ha (Till end of 2019-20)	5.956Ha (approx.,Till end of dt . of inspection)	----
3p	Production of ROM mineral during the last five year period as applicable	15-16-46,500T 16-17-177540T 17-18-179900T 18-19-193800T	15-16-92,500T 16-17-128800T 17-18-62,205T 18-19-2,000T	----
3q	General remarks of inspecting officers on method of mining etc.	----	----	Open Cast mining with deployment of mining machinery is in practice.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Waste partially for protective bund around 7.5m barrier zone and remaining Qty. in backfilling of mined out pit. Top soil in spreading over the reclaimed surface and afforestation area. any mineral reject generation is not anticipated.	Waste is used for reclamtion of mined out pit and remaining Qty for seperate dumping . Top soil is used for spreading over the reclaimed area and afforestation area and remaining Qty. stored for afforestation purpose between B.P. NO.6 and 7. There is no mineral reject generation.	----
4b	Location of topsoil, OB and mineral reject dumps	Top soil near B.P. No. 6 and 7. OB/waste for Reclamtion and Rehabilitation of mined out land. Any mineral reject generation is not proposed.	OB/waste is used for Reclamtion and Rehabilitation of mined out pit.Top is used for spreading over the reclaimed area near Southern boundary and remaining Qty. for seperate dumping of the backfilled area. There is no mineral reject.	----
4c	Number of dumps within lease area and outside of lease area	Seperate dumping is not proposed.	One dump within the ML area.	It has been informed that this dump will be used for Reclamtion and Rehabilitation of mined out pit when the area is mined out fully.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed.	Within UPL.	Dump is temporary.
4e	Number of active and alive dumps.	Not proposed.	One active and alive dump.	----

4f	Number of dead dumps.	Not proposed.	None.	----
4g	Number of dumps established.	Not proposed.	None.	----
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain is proposed.	Garland drain has been made along the slope of the hill between B.P. No.-6 to 11.	----
4i	Length of Retaining wall or garland drain all along dumps	Not specified.	Garland drain 500m(approx.)	Garland drain has been made along the slope of the hill to prevent flow of rain water in the main pit.
4j	Number of settling ponds	Proposed.	3Nos.	----
4k	Specific comments of inspecting officer on waste dump management	----	----	It was proposed that waste will be used for Reclamtion and Rehabilitation of mined out pit simultaneously.Same process is continued.

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 before backfilling.	Full extraction before backfilling.	----
5b	Area under backfilling of mined out area	3.2Ha till 2018-19.	3.0Ha(approx.) till date of inspection.	----
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Removal, utilization and remaining Qty. for seperate stacking.	Removal, utilization and remaining Qty. for seperate stacking.	----

5d	Total area fully reclaimed and rehabilitated	3.2Ha	3.0Ha (approx.)	----
5e	General remarks of inspecting officers on backfilling and reclamation etc.	----	----	Reclamation and Rehabilitation of mined out pit was proposed and same is on progress.

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).	----	No.	A violation under rule 26(2) and 31(4) of MCDR 2017 have been pointed out.
6b	Area available for rehabilitation (ha) .	3.2ha	3.0Ha	----
6c	afforestation done (ha).	0.28Ha	0.98Ha (Cummulative)	----
6d	No. of saplings planted during the year	Not available.	1084Nos.	----
6e	Cumulative no .of plants	Not available.	2313Nos.	----
6f	Any other method of rehabilitation	Not proposed.	None.	----
6g	Cost incurred on watch and care during the year	Not proposed.	Not available.	----
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	3.2Ha	3.0Ha	----

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	3.2Ha	3.0Ha	----
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	3.2Ha	0.98Ha	----
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed.	None.	----
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not proposed.	None.	----
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	3.2Ha	3.0Ha (including reclaimed area)	----
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	3.2Ha (Including Reclaimed area.)	3.0Ha (Including Reclaimed area.)	----
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Not available.	3.0Ha (Including Reclaimed area.)	----

6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed.	Done regularly.	----
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	----	----	PMCP compliance is on progress. About 3.0Ha area is already reclaimed and afforested.

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.	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.	----
7c	Different grade of mineral sorted out at mines.	Cement and Flux.	Presently Cement .	----
7d	Any beneficiation process at mines .	Not proposed.	None.	----
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	----	----	Mineral is sold as ROM and after sorting and grading depending on demand.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and utilization for afforestation. Remaining Qty. for storage.	Same process is continued.	----
8b	Concurrent use or storage of topsoil	Utilization and remaining Qty. for storage.	Utilization and remaining Qty. for storage.	----
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	OB/waste for reclamation and rehabilitation . Any mineral reject generation is not anticipated.	OB/waste for reclamation and rehabilitation and remaining Qty. for separate dumping for future use of reclamation and rehabilitation of mined out area.	----
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	--Do--	Same process is continued.	----
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed.	Done.	----
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	----	About 2300 Nos. of saplings afforested by the lessee .	----
8g	Survival rate	Not proposed.	80%.	----
8h	Water sprinkling on roads to control airborne dust	Proposed	Done regularly.	----

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	----	Around the lease area aesthetic beauty is good.	For betterment of aesthetic beauty the ML holder has made huge afforestation.
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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-Upto Feb.- 2019. AR-Upto -2017-18.	----	----
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager- Shri Kumar Shayamal Kishore. Mining Engineer-Shri Chandrakant Pandey. Geologist- Shri Manoj Kumar Tripathi.	Manager- Shri Kumar Shayamal Kishore. Mining Engineer- Shri Kumar Shamayal Kishore. Geologist- Shri Manoj Kumar Tripathi.	----
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area already exploited- 1.60Ha Covered under pit- 0.80Ha Area reclaimed and rehabilitated- 1.0Ha Dump area- 0.10Ha Afforestation- 983Nos. Survival- rate-85%	Covered under pit-3.0Ha Area reclaimed and rehabilitated-3.0Ha Dump area-1.04Ha Afforestation-0.98Nos. Survival- rate-80%	----
9d	Scrutiny of Annual return on afforestation	Afforestation- 983Nos. Survival- rate-85%	Afforestation-2313 Nos. Survival- rate-80%	

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	62205Tonnes Graded ore.	ROM stock -34,000T.	----
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost-Rs.-229/- Ex mine price- Rs. 240.63/- Sale value-Rs. 369.59/- to Rs. 503.85/-		----
9h	Scrutiny of Annual return on fixed assets	Rs.-25933670/-	----	----
9k	Scrutiny of Annual return on mining machineries	Air compressor- 175m3/min Rock drill- 32.mm	Air compressor-175m3/min Rock drill- 32.mm Two shovels also.	----

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 26(2)	27-MAR-19	21-JUN-19				
MCDR17	Rule 34(1)	27-MAR-19	21-JUN-19				

Date :

(P . NAHAR)

Indian Bureau of Mines