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MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/STN/LST-184

Mine code : 38MPR35119

- (i) Name of the Inspecting : **G007**) **RAGHUBIR SHARAN GARG**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Kumar Shyamal Kishor, Head of Mines, M/s S,N,S (
Official with
Designation
- (iv) Date of Inspection : 13-JUN-23
- (v) Prev.inspection date : 10-FEB-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BHATOORA (4.047HT)**
- (b) **Registration NO.** : **IBM/1171/2011**
- (c) Category : A Mechanised
- (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. : 7674232042
E-mail : snsahr@gmail.com
Phone : 7674232042
- (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 : 40
- (d) Date of Expiry : 21-DEC-21
4. Mineral worked : LIMESTONE Main

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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

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	One core borehole of 30m deep	Not carried out	Deviation pointed out through violation of rule 11(1) vide letter dated 22/06/2023.
1b	Exploration over lease area for geological axis 1 or 2	Not proposed as entire mineralised area already explored under G1 level.	Not applicable	No deviation
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed	NA	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	None, as entire mineralised area already have explored under G1 level.	NA	-
1e	Balance reserve as on 01/04/20	111-239622 211-1219518	111-247163 211-1219518	Slightly less production.

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1f	General remarks of inspecting officers on geology, exploration etc	The lease area from a part of the Semri Group and comprises rocks belonging to Rohtas formation of lower Vindhyan system consists limestone which is grey, light gray, fine to Medium Grained and Slightly fractured. Lime stone is soft and stratified. The limestone is bedded with intercalations of argillaceous material. Area already explored under G1 Level of UNFC beside one exploratory borehole was proposed against the year but same has not been carried out so violation of rule 11(1) pointed out.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N - 2664480 to 2664590 E - 466990 to 467145	N - 2664480 to 2664590 E - 4667000 to 467160	

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2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top soil-1 bench OB - 1 benches Limestone - 04 bench	Top soil-1 bench OB - 1 benches Limestone - 04 bench	Advancement of benches in some extent to lacking with respect to susiquent bench resulting ultimate pit slop affected. Discussions held at the site with head of mining unit and mining engineer present during inspection and both assured to keep the advancement of benches with respect to susiquent bench as per proposal.
2c	Stripping ratio or ore to OB ratio	1:0.17	1:0.13	-
2d	Quantity of topsoil generation in m3	2178 m3	2100 m3	-
2e	Quantity of overburden generation in m3	7481 m3	3055 m3	Less OB removal. Matter discussed at the site and Mining Engineer of the mine advised to adhere with athe approved proposal.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Advancement of benches in some extent to lacking with respect to susiquent bench resulting ultimate pit slop affected. Discussions held at the site with head of mining unit and mining engineer present during inspection and both assured to keep the advancement of benches with respect to susiquent bench as per proposal.

Exploitation:

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Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one pit	one pit	
3b	Quantity of ROM mineral production proposed	65581tonne	58000tonne	As per approved proposal salable quantity from ROM ore are 58986, Thus there is no more difference between proposed one and actual production.
3c	Recovery of sailable/usable mineral from ROM production	90%	90%	No deviation
3d	Quantity of mineral reject generation	Not proposed	Not generated as there is no mineral reject generation	-
3e	Grade of mineral rejects generation and threshold value declared.	Not proposed	Not applicable as there is no mineral reject generation.	
3f	Quantity of sub grade mineral generation.	Not proposed.	Not applicable as there is no sub grade mineral generation	
3g	Grade of sub grade mineral generation	Not proposed.	Not applicable as there is no sub grade mineral generation	-
3h	Manual / Mechanised method adopted for segregating from ROM	Not proposed	Not in a practice.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Not done.	
3j	Provision of drilling and blasting in mineral benches	Drilling and blasting proposed	Drilling and blasting done in the mine as per AR. Small dia. (upto 32mm) holes drilled and 6444Kg NitroCompound and Detonators & Safety fuses are used in the mine.	-

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3k	Provision of mining machineries in mineral benches	Use of mining machinery proposed	AIR COMPRESSOR 175 CUM/MN - 1 no ROCK DRILL (NONELEC.) 122 MM - 1 no BACK HOE 1.0 CUM - 1 no DUMPER 16 TONNE - 2 nos WHEEL LOADER 2 CUM - 1 no WATER TANKER 6000 LITRE - 1 no PUMPS (ELEC.) - 1 no	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Separate benches of 6.0m height in limestone & 3.0m height in OB proposed.	Almost bench heights in Limestone , Overburden and on top soil maintained as per approved proposal , However advancement of benches were observedlaking than the approved one.	Advise extended during inspection to the concerned about advanement of benches with respect to subsequent bench as per approved proposal and Head of mining operation and Mining Engineer both, gave their words to keep the advancement of benches as per proposal.
3m	Total area covered under excavation/pits	3.77 ha.	3.77ha	No deviation.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.17	1:0.13	-
3o	Total area put in use under different heads at the end of year	3.80 ha.	3.80 ha.	
3p	Production of ROM mineral during the last five year period as applicable	2018-19 57865 Ton 2019-20 73492 Ton 2020-21 34478 Ton 2021-22 9850 Ton 2022-23 65541 Ton	2018-19 = 57800 Ton 2019-20 = 70500 Ton 2020-21 = 34000 Ton 2021-22 = 9850 Ton 2022-23 = 58000 Ton	

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

Pit has reached upto 35m depth. There is no scope for further advancement of pit towards south as some part of haul road is already on statutory barrier zone. Certain advancement towards North is possible. Advise extended during inspection to the concerned about advancement of benches with respect to subsequent bench as per approved proposal and Head of mining operation and Mining Engineer both, gave their words to keep the advancement of benches as per proposal.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Backfilling of 1000m2 broken out area proposed for backfilling with 3117m3 OB material and 2178m3 top soil.	Separate dumping not done as entire OB and top soil generated during mining operation utilised for making of proposed bund and backfilling of degraded sothern statutory barrier zone.	As per proposal.
4b	Location of topsoil, OB and mineral reject dumps	Not proposed	Not adopted as duping of OB and top soil not proposed.	
4c	Number of dumps within lease area and outside of lease area	Not proposed	NA as dumping not required. OB and Top soil generated during mining operation utilised in making of proposed bund and in backfilling.	

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4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed against the year under review.	Not done.	
4e	Number of active and alive dumps.	Not proposed	Not applicable as there is not a single dump available within lease area except a bund prepared as per proposal.	
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 proposed.	Garland drain were found prepared.	
4i	Length of Retaining wall or garland drain all along dumps	Garland drain 150 m.	Garland drain 150 m.	
4j	Number of settling ponds	Not Proposed	Nil	
4k	Specific comments of inspecting officer on waste dump management			Waste dump management was carried out 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 of mineral is proposed before commencement of backfilling	Full extraction of mineral is being done as per records.	
5b	Area under backfilling of mined out area	1000m2 area proposed for backfilling	As per approved proposal backfilling of broken out area of statutory barrier zone carried out. So far about 1.5hect broken out area of ML have been backfilled.	

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5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	proposed	As per approved proposal top soil generated during mining operation concurrently utilised in plantation as well as in topping over backfilled area.	
5d	Total area fully reclaimed and rehabilitated	1.35 ha.	1.35 ha.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling followed by reclamation and rehabilitation work were seen as per approved proposals.

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	Received with AR of 2022-23 as per IBM guidelines.	-
6b	Area available for rehabilitation (ha) .	Not proposed	Fully rehabilitation has not been done.	Backfilling was done in 1.35 ha area & plantation over it was found in progress.
6c	afforestation done (ha).	0.25ha	0.25ha	
6d	No. of saplings planted during the year	250	250	
6e	Cumulative no .of plants	Not specified in the document	1950	
6f	Any other method of rehabilitation	Not proposed	Not adopted.	
6g	Cost incurred on watch and care during the year	Not proposed however estimated expenditure was given Rs. 75,000/-	No record maintained. However health of plants planted within lease area have remarkable well.	Very good plantation seen within lease area.

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6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	1000m2	1000m2
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	1000m2	Reportedly las per approved proposal of 1000m2 area.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	0.25hect	0.25hect
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	Not applicable at present.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed.	Not adopted.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not proposed	Not done.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not proposed	ot done
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not proposed	ot done.

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6p	Compliance of environmental monitoring (core zone and buffer zone)	yes.	Records found for environmental monitoring	-
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			The yearly report in respect of rule 26(2) of MCDR 2017 has been submitted for the year 2022-23 with AR for 2022-23 in the light of IBM instruction.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	65541 tonne ROM ore , Saleable ore 58986tonne	57744tonne saleable ore of cement grade.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not proposed	Not required as entire mineral produced from the mine supplied to nearby cement plants.	
7c	Different grade of mineral sorted out at mines.	Not proposed	Not seen.	
7d	Any beneficiation process at mines	Not proposed	Not done	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM is being dispatched from the lease area as per records.Mineral above threshold limit is being dispatched directly from the ML area to different cement plants lies in the area.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	As per proposal
8b	Concurrent use or storage of topsoil	Concurrent use of top soil proposed.	As per proposal
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Dumping not proposed rather backfilling proposed.	Dumping not applicable . backfilling of degraded land were seen as per proposal.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	yes, proposed	As per proposal.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed	Backfilling is being done. Plantation is on progress on the backfilled area.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No records	about 1300 plants observed in the lease area.
8g	Survival rate	80%	about 80%
8h	Water sprinkling on roads to control airborne dust	yes.	yes.

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8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	There are a number of mining leases around this lease. Vegorus mining activities may be seen in the area in form of no. of small and big pits, dumps. Plantation over dumps may also be seen. Aesthetic beauty of the mine and around it is very good. Large number of plantation were seen over backfilled area. Plants are well grown and have a nice healthy.
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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 & AR online submitted.	MR upto Jun,2023 & AR for 2022-23 online submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Manager Shri Taiyab Ali Mining Engineer in charge Shri Taiyab Ali Geologist in charge Shri Satish Kumar Soni	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Lease area (surface area)utilisation as at the end of year(hectares) Underforest Outsideforest Total (i) Already exploited & abandoned byopencast (O/C) mining 0.000 3.7 3.7 (ii) Covered under current (O/C)Workings 0.000 0.07 0.07 (iii) Reclaimed-rehabilitated 0.000 0.45 0.45	

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9d	Scrutiny of Annual return on afforestation	Given.	<p>Within lease area (b) Outside leasearea (i) Number of trees planted during the year 250 0 (ii) Survival rate in percentage 80.00 0</p>	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given.	Mineral reject quantity Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given.	<p>ROM Stock Nil Graded Ore Stock</p> <p>Opening stockat mine head(in tonne) Production (intonne) Dispatchesfrom minehead(in tonne) Closingstock at mine head (intonne) (a) LD 0.000 0.000 0.000 0.000 0.00 (b) SMS 0.000 0.000 0.000 0.000 0.00 (c) Chemical 0.000 0.000 0.000 0.000 0.00 (d) BF 0.000 0.000 0.000 0.000 0.00 (e) Cement 159.64t 58000t 57444t 415.55t</p>	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	<p>Sale Value Rs. 385.84 Ex Mine Price Rs. 385.84 Cost of Production Rs. 202.72</p>	In calculation of cost of production certain taxes of central as well as state have not taken in to account,
9h	Scrutiny of Annual return on fixed assets	Given.	Value of Fixed Assets indicated as Rs. 28691923/-	

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9k	Scrutiny of Annual return on mining machineries	Given	Type of machinery Capacity of each unit No. of units Electrical/Non- Electrical (specify) Used in opencast/underground (specify) AIR COMPRESSOR 175.000 CUM/MN 1 Non Electrical Opencast BACK HOE 1.000 CUM 1 Non Electrical Opencast DUMPER 16.000 TONNE 2 Non Electrical Opencast PUMPS (ELEC.) 99999.999 L/MN 1 Electrical Opencast ROCK DRILL (NONELEC.) 122.000 MM 1 Non Electrical Opencast WATER TANKER 6000.000 LITRE 1 Non Electrical Opencast WHEEL LOADER 2.000 CUM 1 Non Electrical Opencast
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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)	22-JUN-23				
Rule 45(7)	22-JUN-23				

Date :**(RAGHUBIR SHARAN GARG)**

Indian Bureau of Mines