

1/32437/2024

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

**MCDR inspection REPORT**

**Jabalpur regional office**

Mine file No :

Mine code : 38MPR47023

- (i) Name of the Inspecting : **AKASH ARUN MITTARWAR**  
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri Kumar Shyamal Kishor (Representative of lessee),  
Official with : Shri Rahul Kumar Pandey (Mining Engineer) & Shri  
Designation : Satish Kumar Soni (Geologist)
- (iv) Date of Inspection : 30-MAR-24
- (v) Prev.inspection date : 13-JUL-22

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **JAMUANI KHURD(4.42 Hect.)**
- (b) **Registration NO.** :
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address  
State : MADHYA PRADESH  
District : KATNI  
Village : JAMUANI KHURD  
Taluka : V.GARH  
Post office : JAMUANI KHURD  
Pin Code : 485771  
FAX No. : 07674-232580  
E-mail : snsahr@gmail.com  
Phone : 07674-232089, 232042
- (f) Police Station : V.GARH
- (g) First opening date : 20-MAY-84
- (h) Weekly day of rest : SUN
2. Address for : M/s S.N.S. (Minerals) Private Limited  
correspondance : Sunderson House, N.H. 7, Rewa Road,  
Maihar, District: Satna (M.P.) Pin - 485771
3. (a) Lease Number : MPR0229
- (b) Lease area : 4.42
- (c) Period of lease : 50 Years ( 07-APR-83 TO 06-APR-33)
- (d) Date of Expiry : 06-APR-33
4. Mineral worked : LIMESTONE Main

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## 5. Name and Address of the

Lessee : M/s S.N.S. (Minerals)  
Sunderson House, N.H. 7,  
Rewa Road, Maihar,  
District: Satna (M.P.) Pin  
- 485771  
Phone: 07674-232089, 232042  
FAX : 07674-232580

Owner : M/s S.N.S. (Minerals)  
Sunderson House, N.H. 7,  
Rewa Road, Maihar,  
District: Satna (M.P.) Pin  
- 485771  
Phone: 07674-232089, 232042  
FAX : 07674-232580

6. Date of approval of Mining Plan/Scheme of Mining	:	Renewal under rule 24 MCR1960	11-NOV-08
		Mining Scheme rule 12 MCDR1988	23-SEP-14
		MP mod. under 17(3) MCR 2016	15-JAN-18
		Review Of Mining Plan Under Rule 17(2) Of MCR, 2016	04-JAN-23

## MCDR-MiFLOLST/23/2024-JBP-IBM\_RO\_JBP

Exploration

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S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	No exploration proposals during year 2022-23	Not applicable	
1b	Exploration over lease area for Geological axis 1 or 2.	No exploration proposals during year 202-23 for G1/G2 levels	Potential Mineralized area explored up to G1 level.	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not specified.	Not specified.	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Nil	Nil	
1e	Balance reserves as on 01.04.2023	Nil	Balance reserve as on 01/04/2023 – 1366475 tonnes	
1f	General remarks of Inspecting officer on geology, exploration etc.	Entire lease area explored up to G1 Level of exploration. The lease area is occupied by rocks of Semri Group of Vindhyan Super group. The area is occupied by Limestone intercalated with shale etc. The rocks are roughly trending in NE- SW direction with low to moderate dip towards north-west. The occurrence of dolomite has not yet been found so far in the lease area after grant of ML in the quarry as well as bore hole given.		

Development

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	Development was proposed towards south & West of the pit	Mine development is found lagging with respect to proposal.	violation pointed out for the same under rule 11(1) of MCDR,2017
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate bench for top soil, Over burden & mineral proposed	Yes, Separate bench for top soil, Over burden & Mineral were found.	
2c	Stripping ratio or ore to OB ratio	1:0.72	1:0.56	
2d	Quantity of topsoil generation in m <sup>3</sup>	6367 cu.m	6300 cu.m	
2e	Quantity of overburden generation in m <sup>3</sup>	22487 cu.m	22260 cu.m	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Development of pit found lagging with respect to approved proposal; violation pointed out for the same under rule 11(1) of MCDR,2017		

Exploitation

S.N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	One pit	One pit	
3b	Quantity of ROM mineral production proposed (2022-23)	99945 tonnes	99000 tonnes	
3c	Recovery of Salable/usable mineral from ROM production	The recovery of limestone about 80% from ROM proposed from existing pit.	Recovery of about 80% from ROM reported.	About 20% of ROM generated as interburden waste.
3d	Quantity of mineral reject generation	Not proposed	Not applicable	
3e	Grade of mineral reject 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/Mechanized method adopted for segregation from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposed	Not applicable	
3j	Provision of drilling & blasting in mineral benches	proposed	Drilling & blasting carried out as proposed.	
3k	Provision of mining machineries in mineral benches	proposed	HEMM is being used in mineral benches for excavation and transportation Air Compressor – 175.000 – Cu.m/min – 1, Back hoe – 1 cu.m – 1, Dumper – 15 tonne – 2, Wheel loader – 2cu.m. - 1	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed	Height of o/b & mineral benches is suitable for method of mining as proposed.	
3m	Total area covered under excavation /pits	2.53 hect.	Around 2.25 hect.	
3n	Ore to OB ratio for the pit/mine during the year	1:0.72	1:0.56	
3o	Total area put in use under different heads at the end of year	Area under mining – 2.53 hect; Top soil storage – 0.515 hect; waste dump site – 0.985 hect; Infrastructure – 0.01 hect; Roads – 0.05 hect.	Area under Mining – 2.25 hect; Topsoil stacking – 0.27 hect; waste dumping – 0.23 hect; Infrastructure – 0.01 hect; Roads – 0.07 hect.	
3p	Production of ROM mineral during	2018-19	58863 t	2018 -19 – 58800 t

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	last five-years period, as Applicable	2019-20	60900 t	2019-20 – 60100 t	
		2020-21	81845 t	2020-21 – 81000 t	
		2021-22	95615 t	2021-22 – 95000 t	
		2022-23	99945 t	2022-23 – 99000 t	
3q	General remarks of inspecting officer on method of mining etc	Category A mines having adopted mechanized method of mining.			

**Solid Waste Management-Dumping**

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Separate dumping of top soil and OB were proposed.	Separate dumping of top soil and OB were observed.	
4b	Location of topsoil, OB & mineral reject dumps	Top soil proposed for dumping towards South - West part of ML near BP no. 7,8,9,10 & 11 and OB waste proposed for dumping towards Western part of ML near BP no. 3,4,5 & 6	Top soil and overburden waste material were not dumped on earmarked location; however, topsoil and OB waste have dumped towards North between grid values N 2666340 to N 2666230 & E 470450 to E 470500.	Deviation in top soil & OB dumping observed and accordingly violation of rule 11(1) pointed out.
4c	Number of Dumps within lease area and outside lease area	One dump for top soil and one dump for OB waste within lease area	As per proposal	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Proposed outside of the ultimate pit limit of lease area.	Topsoil and OB waste have dumped towards North between grid values N 2666340 to N 2666230 & E 470450 to E 470500.	Deviation in top soil & OB dumping observed and accordingly violation of rule 11(1) pointed out.
4e	Number of Active & Alive dumps	One for topsoil and one for OB waste	As per proposal	
4f	Number of dead dumps	Not proposed	Not applicable	
4g	Number of dumps established	Not proposed	Not applicable	
4h	Whether Retaining wall or garland drain all along dumps are there	Not proposed	Not applicable	
4i	Length of Retaining wall or garland drain all along dump	Not proposed	Not applicable	
4j	Number of settling ponds	Not proposed	Not applicable	
4k	Specific commends of inspecting officer on waste dump management	Waste dump generated not dumped in approved location; however, violation for the same for deviation in dumping under rule 11(1) has been pointed out		

**Solid Waste Management-Backfilling**

S.N.	Item	Proposals	Actual Work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Full extraction of mineral proposed	full extraction of mineral under progress up to the UPD	
5b	Area under backfilling of mined out area	Not Proposed	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not Proposed	Nil	
5d	Total area fully reclaimed & rehabilitated	Not Proposed	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Top soil & OB waste encountered in the lease area proposed are stacked at earmarked location for future backfilling and plantation purpose.		

**Progressive Mine Closer Plan**

S.N.	Item	Proposals	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly- Rule 23E (2). Details should be given in the format as given in Annexure-20	Proposed	Submitted	
6b				
	i) Area available for rehabilitation (Ha)	Not proposed.	Not applicable	
	ii) Afforestation done (ha.)	Not Proposed	Not Proposed	
	iii) No. of saplings planted during the year	Not Proposed	Not Proposed	
	iv) Cumulative no. of plants	Not specified	Not specified	
	v) Any other specific method of rehabilitation	Not proposed	Not applicable.	
	vi) Cost incurred on watch & care during the year	Not Specified.	Not given.	
6C	Compliance on reclamation and rehabilitation by backfilling			
	i) Voids available for backfilling (L*B*D)	Not Proposed	Not Applicable	
	ii) Void filled by waste/tailings	Not Proposed	Not Applicable	
	iii) Afforestation on the backfilling	Not Proposed	Not Applicable	
	iv) Rehabilitation by making water reservoir	Not proposed	Not Applicable	
	v) Any other specific means	Not proposed	Not Applicable	

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6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	Not proposed Not proposed Not proposed	Not Applicable Not Applicable Not Applicable	
6e	Compliance of Environment monitoring (core zone & bufferzone)	Proposed	Within prescribed limit.	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	It was observed during inspection that the lessee has been carrying out PMCP related works as per proposal.		

#### Mineral Conservation

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or gradewise sorting within lease area	Grade wise sorting before Dispatch proposed	ROM Mineral dispatch done after proper sizing & sorting as proposed.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mineral is supplied to Cement & steel plant as per specification of commercial quality and physical size.	
7c	Different grade of mineral sort out at mine	Sorting of mineral carried out for limestone CaO-48% (Min), MgO – 3% (Max), SiO <sub>2</sub> - 3%(Max), Size- +10mm & -40mm for steel plant & (CaO-40% Min, MgO- 3% (Max) & SiO <sub>2</sub> -10% Max, size under (-10 mm) supplied to cement plant.	As per proposal	
7d	Any beneficiation process at mines	Not Proposed	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Grade wise sorting is being done before dispatch.		

#### Environment

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Proposed	As per proposal	Stacked in top soil dump
8b	Concurrent use or storage of topsoil	Only separate dumping of top soil is proposed	As per proposal	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Separate dumping of OB is proposed.	As per proposal	

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8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	As per proposal	
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 & additional plantation done (Rule 41)	plantation not proposed during the year	100 saplings planted	
8g	Survival rate	Not Proposed	80%	
8h	Water sprinkling on roads to control airborne dust	Proposed	with the use of water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Needs improvements for aesthetic beauty in and around mine area.		

**Compliance of Rule 45:-**

S.N.	Item	Proposals	Actual Work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted both Monthly and Annual Return	Submitted both Monthly and Annual Return	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer and Geologist	Shri Rahul Kumar Pandey (Mining Engineer) & Shri Satish Kumar Soni (Geologist)	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	Area under Mining – 2.25 hect; Topsoil stacking – 0.27 hect; waste dumping – 0.23 hect; Infrastructure – 0.01 hect; Roads – 0.07 hect. .	
9d	Scrutiny of Annual return on afforestation	Yes	As per available records around 100 no's of trees planted during the year.	
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	ROM closing stock as on 31.03.2023 – 9487.280 tonnes for cement grade	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	Ex mine price – 376.88/- Sale prize – 376.88/- Cost of production – 201.40/-	



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9h	Scrutiny of Annual return on fixed assets	Yes	Fixed assets Rs. 298631/-	
9k	Scrutiny of Annual return on mining machineries	Yes	HEMM is being used in mineral benches for excavation and transportataion Air Compressor – 175.000 – Cu.m/min – 1, Back hoe – 1 cu.m – 1, Dumper – 15 tonne – 2, Wheel loader – 2cu.m. - 1	

Details of Violations observed during current inspection and compliance position of violation pointed out:-

Rule – 11(1) of MCDR 2017 dated – 14/05/2024

Rule – 33 of MCDR 2017 dated – 14/05/2024

Name: Akash Arun Mittarwar

Designation: Assistant Mining Engineer

