

**INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION
MCDR Inspection REPORT
Reporting Year 2022-23**

General Information

S.N.	Particulars	Details
1	Name of the Mine	TILaura Limestone Mine
	Date of Inspection:	28.02.2024
	Name of Inspecting Officer	SHRI KATHROJU NAVEEN
	Designation	Senior Assistant Controller of Mines
	Accompanying mine officials with Designation	Shri Kumar Shyamal Kishor, HoD of Mines, Shri Vineet Singh, Mining Engineer & Shri Satish Kumar Soni, Geologist
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	3.774 HECTARE (Non-Forest Land)
3	Mine code	38MPR35230
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/1171/2011
5	Name of the Lease, Address, Phone, email and fax number	M/S S.N.S. (Minerals) Private Limited, Sunderson House, N.H. 7, Rewa Road, Maihar, Distt.- Satna (M.P.) Pin - 485771. Phone : 07674- 232042, Email : Snsmhr@gmail.com Fax : 07674- 232580
6	Village	TILaura
7	Taluka/Mandal	MAIHAR
8	District	SATNA
9	Pin code	485774
10	State	MADHYA PRADESH
11	Post Office	TILaura
12	Nearest Police Station	MAIHAR
13	Nearest Railway Station	MAIHAR, DISTRICT - STANA
14	Date of Grant of Mining Lease	22.09.1995
15	Date of Execution	11.12.1995
16	Date of opening of Mine	01.12.2019
17	Date of First Renewal, if applicable and its period & expiry	Period: 03.01.2018, 11.12.2015 TO 10.12.2045
18	Date of Second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri S.P. Tiwari, Address- S.N.S. (Minerals) Private Limited, Sunderson House, N.H. 7, Rewa Road, Maihar, Distt. : Satna Date of Appointment: 26.11.2015

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21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri S.P. Tiwari, Address- S.N.S. (Minerals) Private Limited, Sunderson House, N.H. 7, Rewa Road, Maihar, Distt. : Satna Date of Appointment: 28.07.2009
22	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri Vineet Singh, Address- S.N.S. (Minerals) Private Limited, Sunderson House, N.H. 7, Rewa Road, Maihar, Distt. : Satna Date of Appointment : 04.07.2023
23	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri Vineet Singh, B.E. Mining, Experience : 02 years. Address- S.N.S. (Minerals) Private Limited, Sunderson House, N.H. 7, Rewa Road, Maihar, Distt. : Satna Date of Appointment: 04.07.2023
24	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes
25	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	30.06.2020
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	NA
27	Mineral(s) granted in lease and approved for Mining	Limestone
28	Method of Mining (Opencast, Underground)	Open Cast
29	Category (Fully Mechanized, Others or Manual)	Opencast "B" (Manual)
30	Captive/Non-Captive	Non-Captive

Exploration

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	Not proposed	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 Agency & Expenditure in Lakh Rupees during the year	Not proposed	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	G2 = 2.034 ha	G2 = 2.034 ha	
1e	Balance reserves as on 01.04.2023	218156 T	228536 T	
1f	General remarks of Inspecting officer on geology, exploration etc.	As per the last approved mining plan dated 30.06.2020 the reserves available as on 111 119283 T and 122- 159753 total 279036 T out of which it is proposed to produce 60880 T till 31.03.2023 against which 50500 T produced hence the balance reserves available are 218156 T.		

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Development

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S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	2683100 N to 2683200 N 483370 E to 483400 E	Not as per the proposal	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Proposed separate benches	As per the proposal	
2c	Stripping ratio or ore to OB ratio	1:5.21	1:1.85	
2d	Quantity of topsoil generation in m ³	2400 cum	800 cum	
2e	Quantity of overburden generation in m ³	29263 cum	2900 cum	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Development has not been carried out due to not achieving the production as proposed.		

Exploitation

S.N.	Item	Proposals	Actual Work	Remarks	
3a	Number of pits proposed for production	01	01	Violation issued under Rule 11(1)	
3b	Quantity of ROM mineral production proposed (2022-23)	15187 MT	5000 MT		
3c	Recovery of Salable/usable mineral from ROM production	100 %	100 %		
3d	Quantity of mineral reject generation	NIL	NIL		
3e	Grade of mineral reject generation and threshold value declared	NIL	NIL		
3f	Quantity of sub-grade mineral generation	NIL	NIL		
3g	Grade of sub-grade mineral generation	NA	NA		
3h	Manual/Mechanized method adopted for segregation from ROM	MANUAL	MANUAL		
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NO	NO		
3j	Provision of drilling & blasting in mineral benches	YES	YES		
3k	Provision of mining machineries in mineral benches	Yes	Yes		
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 (2022-23)	0.480 HA.	0.150 HA.		
3n	Ore to OB ratio for the pit/mine during the year	1:5.21	1:1.85		
3o	Total area put in use under different heads at the end of year	1.972 HA.	1.972 HA.		
3p	Production of ROM mineral during last five-years period, as Applicable	2018-19	18170 MT	0.000 MT	
		2019-20	24975 MT	24900 MT	
		2020-21	20700 MT	20700 MT	
		2021-22	24993 MT	24800 MT	
		2022-23	15187 MT	5000 MT	

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3q	General remarks of inspecting officer on method of mining etc	The subject mine has not achieved the production as proposed Violation issued under Rule 11(1
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Solid Waste Management Dumping

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Proposed 20484 Cu.m stacking at pit bottom	Generated only 2900 Cu.m which is used for backfilling.	
4b	Location of topsoil, OB & mineral reject dumps	20484 Cu.m proposed	Nil	
4c	Number of Dumps within lease area and outside lease area	Not proposed	NA	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	NA	
4e	Number of Active & Alive dumps	Not proposed	NA	
4f	Number of dead dumps	Not proposed	NA	
4g	Number of dumps established	Not proposed	NA	
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 dump	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.		

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	Yes	Yes	
5b	Area under backfilling of mined out area	Proposed 0.064 ha.	Due to very less OB excavation back filling is also done nominal.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Top soil proposed to be used in backfilling & plantation	Top soil used in backfilling & plantation	
5d	Total area fully reclaimed & rehabilitated	0.064 ha.	Due to very less OB excavation back filling is also done nominal.	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Reclamation has been done by backfilling as per proposal in 2022-23 due to very less OB excavation back filling is also done nominal.		

Progressive Mine Closer Plan

S.N.	Item	Proposals	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and Correctly-Rule 26(2). Details should be given in the format as given in Annexure-20	Yes	Submitted	
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (Ha)	Not proposed	NA	
	ii) Afforestation done (ha)	Not proposed	NA	
	iii) No. of saplings planted during the year	Not proposed	NA	
	iv) Cumulative no. of plants	Not proposed	NA	
	v) Any other specific method of rehabilitation	Not proposed	NA	
	vi) Cost incurred on watch & care during the year	Not proposed	NA	
6c	Compliance on reclamation and rehabilitation by backfilling			
	i) Voids available for backfilling (L*B*D)	0.064 ha.	Due to very less OB excavation back filling is also done nominal Not proposed Not proposed	
	ii) Void filled by waste/tailings	0.064 ha.		
	iii) Afforestation on the backfilling	0.064 ha.		
	iv) Rehabilitation by making water reservoir	Not proposed		
	v) Any other specific means	Not proposed		
6d	Compliance of Rehabilitation of waste land within lease			
	i) Afforestation	Not proposed	NA	
	ii) Area rehabilitation	Not proposed	NA	
	iii) Method of rehabilitation	Not proposed	NA	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Yes	Within the limit	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	PMCP compliance submitted due to very less OB excavation back filling is also done nominal		

Mineral Conservation

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	Direct dispatch of Lime stone ROM proposed.	ROM is being dispatched.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not proposed	Nil	
7c	Different grade of mineral sort out at mine	Not proposed	NA	
7d	Any beneficiation process at mines	Not proposed	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	5000 T ROM produced and the same is reported as dispatched.		

Environment

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Proposed separate removal for utilizing the same for plantation.	Utilized the of Top Soil for plantation	
8b	Concurrent use or storage of topsoil	Proposed	Used top soil.	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Not proposed	NA	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	OB proposed for Backfilling	Due to very less OB excavation back filling is also done nominal	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	NA	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Proposed	65 plants in Backfilled area	
g	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 mine area			

Compliance of Rule 45

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	Monthly Return and Annual Return submitted .	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer - Shri Vineet Singh Geologist - Shri Satish Kumar Soni	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(i) Already exploited & abandoned by Opencast (O/C) mining = 1.812 ha. (ii) Covered under current (O/C) Workings = 0.150 ha. (iii) Reclaimed/Rehabilitated : 0.064 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 : 0.064 ha.	
9d	Scrutiny of Annual return on afforestation	(i) Number of trees planted during the year 65 nos in B/F area. (ii) Survival rate in percentage 80%	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	NIL	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Cement Grade Closing Stock as on 31.03.2023 = 725.350 MT	

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9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Sale value : Rs. 459 Ex mine price Rs. 459.00 Production cost : Rs. 169.62				
9i	Scrutiny of Annual return on Fixed assets	Value of Fixed Assets (in ₹) 368640.00				
9k	Scrutiny of Annual return on mining Machineries	S. No	MACHINERY	CAPACITY	NO. OF UNITS	--
		1	AIR COMPRESSOR	175.000 Cum/mn	1	--
		2	BACK HOE	1.000 Cum	1	--
		3	DUMPER	15.000 Tonne	2	--
		4	ROCK DRILL (NON ELECC.)	122.000 mm	1	--

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

S.No	Violation Under Rule	Issued on	Compliance Received	SCN Issued on	Compliance Received
01	11(1)	23.03.2024	31.03.2024/10.05.2024	-	-
02	31(4)	23.03.2024	31.03.2024/10.05.2024	-	-