

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

Mining Plan Modification REPORT

Jabalpur regional office

Mine file No : MP/SATNA/LST -295

Mine code : 38MPR35150

- (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 : 05-FEB-21
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **TAMORIA (42.567 HA)**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : SATNA
Village : TAMORIA
Taluka : MAIHAR
Post office : BHATIA
Pin Code : 485771
FAX No. : N. A.
E-mail : N. A.
Phone : N. A.
- (f) Police Station :
- (g) First opening date : 16-FEB-01
- (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 : MPR2225
(b) Lease area : 42.57
(c) Period of lease : 30
(d) Date of Expiry : 23-APR-31
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.

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	22-MAR-00
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	31-AUG-07
		Mining Scheme rule 12 MCDR1988	04-MAY-12
		Mining Scheme rule 12 MCDR1988	20-NOV-15
		MP modif under 17(3) MCR 2016	25-OCT-17

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal of exploration was given for the reporting year 2019-20	No exploration work carried out	
1b	Exploration over lease area for geological axis 1 or 2	proposed to upgrade potential mineralised area upto G1	potential mineralized area explored upto G1	future exploration proposed
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee himself	Lessee himself expenditure not furnished	
1d	Balance area to be explored to bring Geological axis in 1 or 2	no exploration proposal was given	8.25 hectare needs explore upto G1 level, fresh exploration proposed for year 2021-22	
1e	Balance reserve as on 01/04/20	as on 01.04.2017 111-5733631 122-4392000 211-1121400 222-662100	as on 01.04.2020 111-4916691 122-4392000 211-1121400 222-662100	
1f	General remarks of inspecting officers on geology, exploration etc			Limestone of area belongs to bhander group of rocks in teh satna district of vindhyan super group. dark to light grey in colour, hard in nature, fine grained limestone, pacthes of shale found with limestone band.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
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2a	Location of development w.r.t. lease area	it was proposed to develop the area in the southern portion of the ML in between grid lines N 2687400 to N 2687600 & E 489200 to E 489900	Development as per proposal N 2687400 to N 2687600 & E 489200 to E 489900	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top Soil bench 3.0 meter, OB bench 3-6 meter, mineral bench 6-9 meter	Top Soil bench 3 meter, OB bench 4-6 bench, mineral bench 6-9 meter as per proposal height and width	
2c	Stripping ratio or ore to OB ratio	1:1.66	1:1.70	
2d	Quantity of topsoil generation in m ³	37500 cubic meter	36000 cubic meter	
2e	Quantity of overburden generation in m ³	146310 cubic meter	146429 cubic meter	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development work done as per proposal

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1-Single pit	1-Single pit prposed for development and prodcution	
3b	Quantity of ROM mineral production proposed	276225 t	276000 t	

3c	Recovery of sailable/usable mineral from ROM production	100 %	100 %
3d	Quantity of mineral reject generation	Nil-0	Nil-0
3e	Grade of mineral rejects generation and threshold value declared.	Not proposed	Nil
3f	Quantity of sub grade mineral generation.	Nil-0	Nil-0
3g	Grade of sub grade mineral generation	Nil-0	Nil-0
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method proposed	Mechanised method screening adopted for segregation
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	Nil-0
3j	Provision of drilling and blasting in mineral benches	Drilling and blasting proposed	Drilling and blasting in practice in hiring / contract basis
3k	Provision of mining machineries in mineral benches	Proposed	HEMM (excavator, Dump trucks) being used in mineral benches
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	suitable	as per proposal
3m	Total area covered under excavation/pits	14.48 hect	13.15 hect

3n	Ore to OB ratio for the pit/mine during the year.	1:1.66	1:1.70	
3o	Total area put in use under different heads at the end of year	15.98 hect	14.48 hect	
3p	Production of ROM mineral during the last five year period as applicable	2015-16=197000 2016-17=246000 2017-18=285335 2018-19=275063 2019-20=276225	2015-16=116142 2016-17=244175.315 2017-18=266040 2018-19=274900 2019-20=276000	units are in tonnes units are in tonnes
3q	General remarks of inspecting officers on method of mining etc.			Mechanised method of mining is being adopted as per proposal, HEMM is being used for extraction of mineral and transportaion.

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 and MIneral proposed	Separate dumps present for OB , Mineral stacks and rejects	
4b	Location of topsoil, OB and mineral reject dumps	North portion of the lease area in between grid lines N 2687800 to N 2688000 & E 489200 to E 489700	North portion of lease in between grid lines N 2687880 to N 2688000 & E 489200 to E 489750	
4c	Number of dumps within lease area and outside of lease area	4-within the lease area	4-within the lease area	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the UPL	Outside the UPL	
4e	Number of active and alive dumps.	4 nos active dumps	4 nos active dumps	
4f	Number of dead dumps.	Not Proposed	Nil-0, none of the dumps inactive	
4g	Number of dumps established.	Not Proposed	Nil-0	
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland was proposed to be prepared and maintain all around the dumps	garland drains prepared and maintained	
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall 30x1.5x1.5 m, garnald drain 300X1.5X1.5 m	Retaining wall 30x1.5x1.5 m, garnald drain 300X1.5X1.5 m	
4j	Number of settling ponds	01	01	
4k	Specific comments of inspecting officer on waste dump management			4 active dumps are present in the mining lease, no dump established yet. retaining and garland drains are prepared and maintained.

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 proposed	full extraction of mineral	
5b	Area under backfilling of mined out area	0.40 hect	0.40 hect	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Plantation over backfilled area proposed	Plantation over backfilled area in practice	
5d	Total area fully reclaimed and rehabilitated	0.40 hect	0.40 hect	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			backfilling is being done in the area which is fully extracted in terms of mineral and being backfilled with waste, and plantation over the backfilled area is done

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).	to be submit	Not Submitted	
6b	Area available for rehabilitation (ha) .	0.40 hect	0.40 hect	
6c	afforestation done (ha).	0.40 hect	0.40 hect	
6d	No. of saplings planted during the year	100 nos	120-130 nos	
6e	Cumulative no .of plants	500 nos	450 nos aprox	
6f	Any other method of rehabilitation	Not Proposed	NA	

6g	Cost incurred on watch and care during the year	Not Furnished	NA	
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.			PMCP work being done as per the proposal

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	grade wise sorting within the lease area	grade wise sorting through screening is being done within the lease area	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	mechanisal method adopted screening	
7c	Different grade of mineral sorted out at mines.	Not Proposed	NA	
7d	Any beneficiation process at mines .	Not Proposed	NA	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Screening is being done for removal of waste

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	Top Soil is being used for plantation	
8b	Concurrent use or storage of topsoil	plantation	top soil is being used for plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed	as per proposal separate dumping is done	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed	for backfilling of fully extracted area	
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 %	80-85 %	
8h	Water sprinkling on roads to control airborne dust	proposed	water being sprinkling on road by water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			needs to upgrade by means of plantation

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR submitted upto Mar 2021 Ar Submitted upto 2019-20	Submitted timely	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Submitted	Mines Manager-Shri Gautam Karmakar MIning Engineer-Shri Taiyeb Ali Geologist- Shri Manoj Tripathi	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Submitted	Furnished	
9d	Scrutiny of Annual return on afforestation	Furnished	(i) Already exploited & abandoned by opencast (O/C) mining 0.000 13.314 13.314 (ii) Covered under current (O/C) Workings 0.000 1.166 1.166 (iii) Reclaimed/Rehabilitated 0.000 0.400 0.400 (iv) Used for waste disposal 0.000 0.400 0.400 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.250 0.250 (vi) Other Purpose (Protective Bund & Drain) 0.000 0.050 0.050 (vii) Work done under progressive mine closure plan during the year 0.000 2.600 2.	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	furnished	furnished
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	<p>COST OF PRODUCTION</p> <p>Item Cost Per Tonne (in)</p> <p>(i) Direct Cost 105.00 (a) Exploration 0.00 (b) Mining 105.00 (c)</p> <p>Beneficiation (Mechanical Only) 0.00 (ii) Over-head cost 20.00 (iii) Depreciation 12.00 (iv) Interest 15.00 (v) Royalty 80.00 (vi) Taxes 1.00 (vii) Dead Rent 0.00 (viii) Others (specify) DMF & NMET 26.00 Total 259.00</p>
9h	Scrutiny of Annual return on fixed assets	Furnished	Value of Fixed Assets (in INR) 55639305
9k	Scrutiny of Annual return on mining machineries	Furnished	furnished

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

Date :

(DEEPAK SHARMA)

Indian Bureau of Mines