

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/SATNA/LST -295

Mine code : 38MPR35150

- (i) Name of the Inspecting : **M009**) **SUDIP RANJAN MAZUMDAR**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri Kumar Shyamal Kishor, HoD Mines
Official with
Designation
- (iv) Date of Inspection : 15-SEP-23
- (v) Prev.inspection date : 08-SEP-22

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **TAMORIA (42.567 HA)**
- (b) **Registration NO.** : **IBM/1171/2011**
- (c) Category : A -Others
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : SATNA
Village : TAMORIA
Taluka : MAIHAR
Post office : Bathiya
Pin Code : 485771
FAX No. : N. A.
E-mail : snsmhr@gmail.com
Phone : 8435802174
:Nadan
- (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.) 485772
3. (a) Lease Number : MPR2225
(b) Lease area : 42.567 Ha
(c) Period of lease : 30
(d) Date of Expiry : 21-APR-31
4. Mineral worked : LIMESTONE Main

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5. Name and Address of the

Lessee : S.N.S.(MINERALS) LTD.
 NH-7, Maihar,Dist: Satna
 MADHYA PRADESH- 485771
 Phone: 8435802174
 FAX : N.A

Owner : S.N.S.MINERALS) LTD.
 NH-7, Maihar,Dist: Satna
 MADHYA PRADESH- 485771
 Phone: 8435802174
 FAX : N.A

Agent : Shri S.P.Tiwari
 S.N.S.(MINERALS) LTD.
 Sunderson House, NH-7, Maihar,Dist: Satna
 MADHYA PRADESH- 485771
 Mobile-8435802174
 Email- snsahr@gmail.com
 Date of Appointment- 20/07/2021

Mining Engineer:

Name Shri Goutam Karmakar
 Qualification B.E. (Mining)
 Appointment/termi 01/03/2022
 nation date

Geologist : Shri Manoj Kumar Tripathi
 Name
 Qualification M.Sc(Geology)
 Qualification 01/10/2020
 Appointment/termi
 nation date

6. Date of approval of Mining
 Plan/Scheme of Mining

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|---|--------------------------------|-----------|
| : | Fresh under rule 22 MCR1960 | 22-MAR-00 |
| | Mining Scheme rule 12 MCDR1988 | 31-AUG-07 |
| | Mining Scheme rule 12 MCDR1988 | 04-MAY-12 |
| | Mining Scheme rule 12 MCDR1988 | 20-NOV-15 |
| | Mining Scheme rule 12 MCDR1988 | 25-OCT-17 |
| | MP modif under 17(3) MCR 2016 | 25-OCT-17 |
| | MP modif under 17(3) MCR 2016 | 19-Mar-21 |

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|---|--|------------------------------------|
| 1a | Backlog of previous year | 2021-22: 4 Nos | 2021-22: 4 Nos | There is no backlog in exploration |
| 1b | Exploration over lease area for geological axis 1 or 2 | In 2022-23, there was no exploration proposal | Nil | Nil |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | Not proposed | Nil | Nil |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | In 2022-23, there was no exploration proposal | The entire mineralized area has been explored in G1 level | Nil |
| 1e | Balance reserve as on 01/04/20 | Reserves as on 01.04.2022 under 111 category was 4033316 tones and under 122 category was 4392000 tones | Depletion during the year 2022-23 was 368625.00 tones. Balance reserve under 111 category is 3664691 tones and under 122 category is 4392000 tones | Nil |
| 1f | General remarks of inspecting officers on geology, exploration etc | | There is no backlog in exploration. Entire mineralized area has been explored under G1 level of exploration. | Nil |

Development :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|--|---|--|---------|
| 2a | Location of development w.r.t.lease area | In 2022-23, development proposed between coordinates N 2687400 to 2687830, E 489323 to 490013 | In 2022-23, development carried out between coordinates N 2687400 to 2687830, E 489323 to 490013 | Nil |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | Separate benches in topsoil overburden and mineral has been proposed | Separate benches in topsoil overburden and mineral has been maintained | Nil |

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|----|---|--|--|-----|
| 2c | Stripping ratio or ore to OB ratio | 1 : 1.65 t/m3 | 1 : 1.68 t/m3 | Nil |
| 2d | Quantity of topsoil generation in m3 | In 2022-23, the proposal for topsoil quantity generation was 7500 cum | In 2022-23, the actual quantity of topsoil generated was 3400 cum | Nil |
| 2e | Quantity of overburden generation in m3 | In 2022-23, the proposal for overburden quantity generation was 223650 cum | In 2022-23, actual quantity of overburden generated was 219960 cum | Nil |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | | The extent of development was within the approved proposal. | Nil |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--|--|---------|
| 3a | Number of pit proposed for production | During the year 2022-23, two (02) nos of pits were proposed for exploitation | During the year 2022-23, two (02) nos of pits were exploited | Nil |
| 3b | Quantity of ROM mineral production proposed | During the year 2022-23, the ROM production quantity proposed was 369625 tonne | During the year 2022-23, the actual ROM production quantity was 368625 tonne | Nil |
| 3c | Recovery of sailable/usable mineral from ROM production | 100 % | 100 % | Nil |
| 3d | Quantity of mineral reject generation | Not proposed | Nil | Nil |
| 3e | Grade of mineral rejects generation and threshold value declared. | Not proposed | Nil | Nil |
| 3f | Quantity of sub grade mineral generation. | Not proposed | Nil | Nil |

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|----|--|--|--|-----|
| 3g | Grade of sub grade mineral generation | Not proposed | Nil | Nil |
| 3h | Manual / Mechanised method adopted for segregating from ROM | Not proposed | Nil | Nil |
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | Not proposed | Nil | Nil |
| 3j | Provision of drilling and blasting in mineral benches | Proposed | Carried out | nil |
| 3k | Provision of mining machineries in mineral benches | Proposed | Carried out | Nil |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Yes suitable | Yes suitable | Nil |
| 3m | Total area covered under excavation/pits | The total area covered under excavation/pit s at the end of the plan period 2025-26 is 22.0 Ha. | The total area covered under excavation/pits at the end of the plan period 2022-23 is 18.40 Ha | Nil |
| 3n | Ore to OB ratio for the pit/mine during the year. | 1 : 1.65 t/m ³ | 1 : 1.68 t/m ³ | Nil |
| 3o | Total area put in use under different heads at the end of year | The total area put in use under different heads at the end of the plan period 2025-26 is 26.75 Ha. | The total area put in use under different heads at the end of the plan period 2025-26 is 23.40 Ha. | Nil |

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|----|--|---|---|-----|
| 3p | Production of ROM mineral during the last five year period as applicable | 2018-19 275063 tonnes 2019-20 276225 tonnes 2020-21 279798 tonnes 2021-22 364731 tonnes 2022-23 369625 tonnes | 2018-19 274900 tonnes 2019-20 276000 tonnes 2020-21 279200 tonnes 2021-22 360000 tonnes 2022-23 368625 tonnes | Nil |
| 3q | General remarks of inspecting officers on method of mining etc. | | Production was carried out from two nos of pits as per proposal. | Nil |

Solid Waste Management - Dumping:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|--|--|---------|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | During 2022-23, there was no proposal for Top Soil and Mineral reject dump. Top soil generated has been proposed for reuse/spreadin g. Overburden has been proposed for backfilling. | During 2022-23, there was no generation of Mineral reject dump. Top soil has been reused/ spreaded. Overburden material generated has been backfilled. | Nil |
| 4b | Location of topsoil, OB and mineral reject dumps | During 2022-23, there was no proposal for Top Soil and Mineral Reject dump. Top soil generated has been proposed for reuse/spreadin g. Overburden has been proposed for backfilling. | During 2022-23, there was no generation of Mineral reject dump. Top soil has been reused/ spreaded. Overburden material generated has been backfilled. | Nil |

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|----|--|---|---|-----|
| 4c | Number of dumps within lease area and outside of lease area | Existing within Lease area- 02 No of Overburden/waste dump. Outside Lease area- Nil | Existing within Lease area- 02 No of Overburden/waste dump. Outside Lease area- Nil | Nil |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | Outside UPL | Outside UPL | Nil |
| 4e | Number of active and alive dumps. | 01 OB dump (already existing OB dump) | 01 OB dump (already existing OB dump) | Nil |
| 4f | Number of dead dumps. | Not proposed | Nil | Nil |
| 4g | Number of dumps established. | 01 OB dump (already existing OB dump) | 01 OB dump (already existing OB dump) | Nil |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | Yes | Retaining wall and Garland drain constructed. | Nil |
| 4i | Length of Retaining wall or garland drain all along dumps | Not Proposed | During 2022-23, 25 mtr of Retaining wall and 200 mtr of Garland drain was constructed. | Nil |
| 4j | Number of settling ponds | Not proposed | Nil | Nil |
| 4k | Specific comments of inspecting officer on waste dump management | | During 2022-23, there was no generation of Mineral reject dump. Top soil has been reused/spreaded. Overburden material generated has been backfilled. | Nil |

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 before backfilling | Full extraction of mineral before backfilling | Nil |

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|----|---|---|--|-----|
| 5b | Area under backfilling of mined out area | During 2022-23, mined out area of 0.65 Ha was proposed for backfilling. | During 2022-23, mined out area of 0.65 Ha has been backfilled. | Nil |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | Proposed | Carried out | Nil |
| 5d | Total area fully reclaimed and rehabilitated | 4.70 Ha | 4.75 Ha | Nil |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | | Backfilling has been done as per proposal. | Nil |

Progressive Mine Clousre Plan:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|---|--|---------|
| 6a | Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2). | The holder of a mining lease shall submit to the competent authority a yearly report as per the format specified by the Indian Bureau of Mines, before 1stday of July report every year | The annual return on PMCP has been submitted timely. | Nil |
| 6b | Area available for rehabilitation (ha) . | 1.7 Ha | 1.7 Ha | Nil |
| 6c | afforestation done (ha). | 1.7 Ha | 1.7 Ha | Nil |
| 6d | No. of saplings planted during the year | 1200 Nos | 1400 nos | Nil |
| 6e | Cumulative no .of plants | Not Specified | 8455 nos of Saplings | Nil |

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|----|---|---------------------------|--------------------------|-----|
| 6f | Any other method of rehabilitation | Not Proposed | Nil | Nil |
| 6g | Cost incurred on watch and care during the year | Not Specified | Rs. 12,35,000/- | Nil |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D | 2.8 Ha | 2.8 Ha | Nil |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | 0.65 Ha | 0.65 Ha | Nil |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area | 1.20 Ha | 1.40 Ha | Nil |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir | Not Proposed | Nil | Nil |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v) any other specific means. | Not Proposed | Nil | Nil |
| 6m | Compliance of rehabilitation of waste land within lease (i) afforestation | Proposed | Carried Out | Nil |
| 6n | Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha) | 0.100 ha (Afforestation) | 2.200 ha (Afforestation) | Nil |

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|----|---|------------|--|-----|
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation | Plantation | Plantation | Nil |
| 6p | Compliance of environmental monitoring (core zone and buffer zone) | Proposed | Carried Out | Nil |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | | PMCP proposals have been complied as per proposal. | Nil |

Mineral Conservation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|----------------------|---------------------------------|---------|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | ROM mineral dispatch | ROM mineral dispatch. | Nil |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | Not Proposed | Nil | Nil |
| 7c | Different grade of mineral sorted out at mines. | Not Proposed | Nil | Nil |
| 7d | Any beneficiation process at mines | Not Proposed | Nil | Nil |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | | Direct dispatch of ROM mineral. | Nil |

Environment:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|------|-----------|-------------|---------|
|--------|------|-----------|-------------|---------|

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|----|---|---|---|-----|
| 8a | Separate removal and utilization of topsoil (Rule 32) | Proposed | Carried Out | Nil |
| 8b | Concurrent use or storage of topsoil | Concurrent use of top soil proposed | Concurrent use of top soil done as topping over backfilled area | Nil |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | Overburden and waste are proposed for back filling. | Overburden and waste has been used for backfilling. | Nil |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | Proposed | Carried out as per proposal | Nil |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | 1300 Nos of saplings | 1400 Nos of Sapling planted | Nil |
| 8g | Survival rate | Not proposed | Survival rate: 90% | Nil |
| 8h | Water sprinkling on roads to control airborne dust | Proposed | Carried Out | Nil |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | | Aesthetic beauty in and around mines is maintained. | Nil |

Compliance of Rule 45:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--|--|---------|
| 9a | Status of submission of Monthly and Annual returns | | Annual Return for 2022-23 submitted on 27.06.2023. Monthly returns for 2022-23 have been submitted timely. | Nil |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | Mining Engineer, Geologist and Manager have been employed in the mines | Mining Engineer, Geologist and Manager have been employed in the mines | Nil |

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|----|---|---|--|-----|
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | <p>(i) Already exploited & abandoned by Opencast (O/C) mining = 16.9 ha.</p> <p>(ii) Covered under current (O/C) Workings =1.500 ha.</p> <p>(iii)Reclaimed /Rehabilitated : 1.4 ha.</p> <p>(iv) Used for waste disposal : 0.000 ha.</p> <p>(v) Occupied by plant, buildings, residential, welfare buildings & roads : 0.250 ha.</p> <p>(vi) Other Purpose : 0.000 ha.</p> <p>(vii) Work done under progressive mine closure plan during the year : 0.65 ha.</p> | <p>(i) Already exploited & abandoned by Opencast (O/C) mining = 16.9 ha.</p> <p>(ii) Covered under current (O/C) Workings =1.500 ha.</p> <p>(iii)Reclaimed/Rehabilitated : 1.4 ha.</p> <p>(iv) Used for waste disposal : 0.000 ha.</p> <p>(v) Occupied by plant, buildings, residential, welfare buildings & roads : 0.250 ha.</p> <p>(vi) Other Purpose : 0.000 ha.</p> <p>(vii) Work done under progressive mine closure plan during the year : 0.65 ha.</p> | Nil |
| 9d | Scrutiny of Annual return on afforestation | Yes | <p>i) Number of trees planted during the year: 1400 nos</p> <p>ii) Survival rate in percentage : 90%</p> <p>iii) Total no. of trees at the end of teh year: 8455 nos</p> | Nil |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | Mineral reject has not been generated | Mineral reject has not been generated | Nil |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | Closing stock of ROM is Nil | Closing stock of ROM is Nil | Nil |

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|----|---|--|--|-----|
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Cost of production reported is Rs 201.47 per tonne | Cost of production reported is Rs 201.47 per tonne | Nil |
| 9h | Scrutiny of Annual return on fixed assets | Value of Fixed Assets furnished is Rs 153535303 | Value of Fixed Assets furnished is Rs 153535303 | Nil |
| 9k | Scrutiny of Annual return on mining machineries | ROCK DRILL (NON-ELEC.): 2 Nos; DUMPER: 6 nos; BACK HOE: 3 nos etc. | ROCK DRILL (NON-ELEC.): 2 Nos; DUMPER: 6 nos; BACK HOE: 3 nos etc. | Nil |

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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 |

Date :

(SUDIP RANJAN MAZUMDAR)

Indian Bureau of Mines