

## INDIAN BUREAU OF MINES

## MINERALS DEVELOPMENT AND REGULATION DIVISION

## MCDR inspection Report

## Jabalpur regional office

| S.N. | Particulars  | Details   |
|------|--|---|
| 1    | Name of the Mine   | Bhatoora Limestone Mine   |
|      | Date of Inspection:  | 23-07-2024  |
|      | Name of Inspecting Officer   | Akash Arun Mittarwar, Assistant Mining Engineer   |
| 2    | Total Lease Area (Ha) with breakup of Non-forest and forest land                                     | 4.047 Hect.   |
| 3    | Mine code  | 38MPR35119  |
| 4    | IBM Registration Number under rule 45 of MCDR,1988   | IBM/1171/2011   |
| 5    | Last Inspection Details  | 13-06-2023 by Shri Raghubir Sharan Garg, ACOM   |
| 6    | Mine official present during the inspection  | Shri Kumar Shyamlal Kishore (Mines Representative), Shri Prayachchh Kumar Tiwari (Mining Engineer) & Shri Satish Kumar Soni (Geologist)   |
| 7    | Name of the Lease, Address, Phone, email and fax number  | M/s S.N.S. (Minerals) Private Limited;<br>Sunderson House, N.H. 7, Rewa Road,<br>Maihar, District- Satna (M.P.) Pin – 485771<br>Phone – 7674232042; 8435801461<br>E-mail – snsahr@gmail.com |
| 8    | Village  | Bhatura   |
| 9    | Taluka/Mandal  | Maihar  |
| 10   | District   | Satna   |
| 11   | Pin code   | 485772  |
| 12   | State  | Madhya Pradesh  |
| 13   | Post Office  | Maihar  |
| 14   | Nearest Police Station   | Maihar  |
| 15   | Nearest Railway Station  | Maihar  |
| 16   | Date of Grant of Mining Lease  | 02/07/1981  |
| 17   | Date of Execution  | 04/09/1984  |
| 18   | Lease period   | 22/12/1981 to 21/12/2031  |
| 19   | Date of opening of Mine  | 01/01/1985  |
| 20   | Initial Grant  | 22/12/1981 to 21/12/1991 (Shri Pramod Gumasta)<br>04/09/1984 to 21/12/1991 (Transfer to M/s S.N.S. (Minerals) Private Limited)  |
| 21   | Date of First Renewal, if applicable and its period & expiry   | 22/12/1991 to 21/12/2001  |
| 22   | Date of Second Renewal, if applicable and its period & expiry  | 22/12/2001 to 21/12/2021  |
| 23   | Date of Third Renewal, if applicable and its period & expiry   | 22/12/2021 to 21/12/2031  |
| 24   | Date of submission of renewal application if Mining Operations are continuing under deemed extension | NA  |

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|----|--|--|
| 25 | Name of the Nominated Owner with Address, phone, email, fax number and date of appointment   | Shri S.P. Tiwari (Nominated Owner),<br>M/s S.N.S. (Minerals) Private Limited;<br>Sunderson House, N.H. 7, Rewa Road,<br>Maihar, District- Satna (M.P.) Pin – 485771<br>Phone - 8435802174<br>E-mail – snsahr@gmail.com   |
| 26 | Name of the Mine Agent with Address, phone, email, fax number and date of appointment  | Shri S.P. Tiwari (Nominated Owner),<br>M/s S.N.S. (Minerals) Private Limited;<br>Sunderson House, N.H. 7, Rewa Road,<br>Maihar, District- Satna (M.P.) Pin – 485771<br>Phone - 8435802174<br>E-mail – snsahr@gmail.com   |
| 27 | Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines   | Shri Prayachchh Kumar Tiwari (Mine Manager)<br>Qualification - Diploma in Mining & Surveying<br>Date of Appointment – 01/05/2024<br>Mobile, Email – 9893192017,<br>snsahr@gmail.com  |
| 28 | Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.          | Shri Prayachchh Kumar Tiwari (Mining Engineer)<br>Qualification - Diploma in Mining & Surveying<br>Date of Appointment – 01/05/2024<br>Mobile, Email – 9893192017,<br>snsahr@gmail.com<br>Shri Satish Kumar Soni (Geologist)<br>Qualification - M.Sc. (Geology),<br>Date of Appointment – 23/09/2022<br>Mobile, Email - 8435802434, snsahr@gmail.com |
| 29 | Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.               | Mining plan under rule 10 of MCDR,1988 –<br>22-DEC-04<br>Scheme of Mining under Rule 12(3) Of MCDR1988 –<br>15-NOV-11<br>Scheme of Mining under Rule 12(3) Of MCDR1988 –<br>17-JUN-13<br>Review of Mining plan under rule 17(2) of MCR<br>2016 – 10-OCT-18<br>Review of Mining plan under rule 17(2) of MCR<br>2016 – 24-MAY-22                      |
| 30 | Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any. | NA   |
| 31 | Mineral(s) granted in lease and approved for Mining  | Limestone  |
| 32 | Method of Mining (Opencast, Underground)   | Opencast   |
| 33 | Category (Fully Mechanized, Others or Manual)  | A  |
| 34 | Captive/Non-Captive  | Non-Captive  |

Exploration

| S.N. | Item   | Proposals  | Actual Work  | Remarks |
|------|--|--|--|---------|
| 1a   | Backlog of previous year   | Nil  | Nil  |         |
| 1b   | Exploration over lease area for Geological axis 1 or 2.            | Nil  | Entire lease area already explored up to G1 level.               |         |
| 1c   | Exploration Agency & Expenditure in Lakh Rupees during the year    | Nil  | Nil  |         |
| 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 01/04/2024 – 111-192663 tonnes (Limestone) |         |
| 1f   | General remarks of Inspecting officer on geology, exploration etc. | Entire lease area explored up to G1 Level of exploration. No backlog of exploration. |  |         |

Development

| S.N. | Item   | Proposals   | Actual Work     | Remarks |
|------|--|---|-----------------|---------|
| 2a   | Location of Development w.r.t. lease area  | Towards North of the pit  | As per proposal |         |
| 2b   | Separate benches in topsoil overburden and mineral (Rule 15)                           | No bench in top soil & for Overburden proposed. 01 bench in mineral was proposed. | As per proposal |         |
| 2c   | Stripping ratio or ore to OB ratio   | Not proposed  | Not Applicable  |         |
| 2d   | Quantity of topsoil generation in m <sup>3</sup>                                       | Not proposed  | Not Applicable  |         |
| 2e   | Quantity of overburden generation in cu. m   | Not proposed  | Not Applicable  |         |
| 2f   | General remarks of Inspecting officer on development of pit w.r.t type of deposit etc. | Development was carried towards North of the pit as per proposal.                 |                 |         |

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 (2023-24)  | 54648 tonnes | 54500 tonnes |                         |
| 3c   | Recovery of Salable/usable mineral from ROM production | 90 %         | 90 %         | 10 % intercalated waste |

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|    |  |  |         |   |  |
|----|--|--|---------|---|--|
| 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.<br>Air Compressor -1-125 cu.m<br>Back hoe -1- 1 cu.m<br>Dumper – 2 – 15 tonne<br>Wheel loader –1 – 2 cu.m<br>Water Tanker -1- 8000 litre |  |
| 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  | 3.77 hect.   |         | 2.2 hect.   |  |
| 3n | Ore to OB ratio for the pit/mine during the year   | Not proposed   |         | Not applicable  |  |
| 3o | Total area put in use under different heads at the end of year                                       | 3.80 hect.   |         | 2.5 hect.   |  |
| 3p | Production of ROM mineral during   | 2019-20  | 73492 t | 2019-20 – 70500 t   |  |
|    | last five-years period, as Applicable  | 2020-21  | 34478 t | 2020-21- 34000 t  |  |
|    |  | 2021-22  | 9850 t  | 2021-22 – 9850 t  |  |
|    |  | 2022-23  | 65541 t | 2022-23 – 65541 t   |  |
|    |  | 2023-24  | 54648 t | 2023-24 – 54500 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**

| <b>S.N.</b> | <b>Item</b>   | <b>Proposals</b>   | <b>Actual Work</b> | <b>Remarks</b> |
|-------------|---|--|--------------------|----------------|
| 4a          | Separate dumping of topsoil, OB & mineral reject (Rule 32,33)     | Not proposed   | Not applicable     |                |
| 4b          | Location of topsoil, OB & mineral reject dumps                    | Not proposed   | Not applicable     |                |
| 4c          | Number of Dumps within lease area and outside lease area          | Not proposed   | Not applicable     |                |
| 4d          | Location of Dumps w.r.t. ultimate pit limit (Rule 16)             | Not proposed   | Not applicable     |                |
| 4e          | Number of Active & Alive dumps                                    | Not proposed   | Not applicable     |                |
| 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 comments of inspecting officer on waste dump management  | No dump for top soil & O/B was proposed during the year 2023-24. |                    |                |

**Solid Waste Management-Backfilling**

| <b>S.N.</b> | <b>Item</b>  | <b>Proposals</b>  | <b>Actual Work</b>                                      | <b>Remarks</b> |
|-------------|--|---|---|----------------|
| 5a          | Status on part or full extraction of mineral from mined out area before starting backfilling | Full extraction of mineral from mined out area is proposed                | Full extraction of mineral under progress up to the UPD |                |
| 5b          | Area under backfilling of mined out area   | Around 1500 square meter in barrier zone from BP number 10/1 to BP – 12/3 | Proposed backfilling was observed around the area       |                |
| 5c          | Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)      | Not Proposed  | Not Applicable  |                |

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|----|---|--|-----------|--|
| 5d | Total area fully reclaimed & rehabilitated                            | 0.2 hect.  | 0.2 hect. |  |
| 5e | General remarks of inspecting officer on backfilling, reclamation etc | Proposed Backfilling carried out as per proposal & reclaimed by afforestation. |           |  |

**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   | Management of worked/mined out benches   |   |                          |   |
|      | i) Area available for rehabilitation (Ha)  | Not proposed                                  | Not applicable           |   |
|      | ii) Afforestation done (ha.)   | Not proposed                                  | Not applicable           |   |
|      | iii) No. of saplings planted during the year   | Not proposed                                  | Not applicable           |   |
|      | iv) Cumulative no. of plants   | Not proposed                                  | Not applicable           |   |
|      | v) Any other specific method of rehabilitation   | Not proposed                                  | Not applicable           |   |
|      | vi) Cost incurred on watch & care during the year  | Not Specified.                                | Not applicable           |   |
| 6c   | Compliance on reclamation and rehabilitation by backfilling  |   |                          | Cumulative for the year 2022-23 & 23-24 |
|      | i) Voids available for backfilling (L*B*D)   | 0.2 hect.                                     | 0.2 hect.                |   |
|      | ii) Void filled by waste/tailings  | 14181 cu.m                                    | 14000 cu.m               |   |
|      | iii) Afforestation on the backfilling  | 125   | 125                      |   |
|      | iv) Rehabilitation by making water reservoir   | Not Proposed                                  | Not applicable           |   |
|      | v) Any other specific means  | Not Proposed                                  | Not Applicable           |   |
| 6d   | Compliance of Rehabilitation of waste land within lease  |   |                          |   |
|      | i) Afforestation   | Not Proposed                                  | Not Applicable           |   |
|      | ii) Area rehabilitation  |   |                          |   |
|      | iii) Method of rehabilitation  |   |                          |   |
| 6e   | Compliance of Environment monitoring (core zone & Buffer zone)   | Proposed                                      | Within prescribed limit. |   |
| 6f   | General remarks of inspecting officer on PMCP compliance & progressive closer operations   | PMCP compliance was observed as per proposal. |                          |   |

**Mineral Conservation**

| S.N. | Item   | Proposals  | Actual Work     | Remarks |
|------|--|--|-----------------|---------|
| 7a   | ROM mineral dispatch or gradewise sorting within lease area                          | ROM mineral dispatch to steel and cement industries  | As per proposal |         |
| 7b   | Method of grade-wise mineral sorting i.e. manual or mechanical                       | Mechanical   | Mechanical      |         |
| 7c   | Different grade of mineral sort out at mine  | Cement grade   | Cement grade    |         |
| 7d   | Any beneficiation process at mines   | Not Proposed   | Not applicable  |         |
| 7e   | General remarks of inspecting officer on Mineral conservation & beneficiation issues | The limestone dispatched to cement and steel industries directly. No beneficiation process at mines carried out. |                 |         |

**Environment**

| S.N. | Item  | Proposals                            | Actual Work   | Remarks |
|------|---|--------------------------------------|---|---------|
| 8a   | Separate removal and utilization of topsoil (Rule32)  | Not Proposed during the year 2023-24 | Not Applicable  |         |
| 8b   | Concurrent use or storage of topsoil  | Not Proposed during the year 2023-24 | Not Applicable  |         |
| 8c   | Separate dumps for overburden waste rock, rejects and fines (Rule 33)                                       | Not Proposed during the year 2023-24 | Not Applicable  |         |
| 8d   | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use           | Not Proposed during the year 2023-24 | Not Applicable  |         |
| 8e   | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | Proposal for backfilling             | As per proposal phased restoration and reclamation was carried.                             |         |
| 8f   | Baseline information on existence of plantation & additional plantation done (Rule 41)                      | Plantation on proposed backfilling.  | As per proposal   |         |
| 8g   | Survival rate   | 80%                                  | 80%   |         |
| 8h   | Water sprinkling on roads to control airborne dust  | Proposed                             | Water sprinkling on roads to control airborne dust carried out with the use of water tanker |         |

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|----|---|--|
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mine area | Plantation was done in the proposed location. 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   |         |
| 9b   | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager           | Mining Engineer and Geologist                       | Shri Prayachchh Kumar Tiwari (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   | Covered under current (O-C) Workings – 2.2 hect. Reclaimed-rehabilitated – 0.20 hect. Infrastructure – 0.010 hect. Green Belt – 0.050 hect. |         |
| 9d   | Scrutiny of Annual return on afforestation  | 125 number of saplings were proposed for plantation | 125 saplings planted  |         |
| 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 01/04/2024 – 1048.130   |         |
| 9g   | Scrutiny of Annual return on sale value, Ex. Mine price and production cost                   | Yes   | Ex. Mine price - 491.65 and production cost – 217.23  |         |
| 9h   | Scrutiny of Annual return on fixed assets   | Yes   | Value of Fixed Assets* (₹29205589)  |         |
| 9k   | Scrutiny of Annual return on mining machineries   | Yes   | Air Compressor -1-125 cu.m<br>Back hoe -1- 1 cu.m<br>Dumper – 2 – 15 tonne<br>Wheel loader –1 – 2 cu.m<br>Water Tanker -1- 8000 litre       |         |

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

Rule – 11(1) of MCDR 2017  
Rule – 31(4) of MCDR 2017  
Rule – 33 & 45(7) of MCDR 2017

Name: Akash Arun Mittarwar  
Designation: Assistant Mining Engineer