

# MCDR INSPECTION REPORT

## 1.0 GENERAL

| SN | Particulars  | Details   |
|----|--|---|
| 1  | Name of inspecting office & designation  | Shaival Kartikeya<br>Jr. Mining Geologist   |
| 2  | Date of inspection   | 24/06/2019  |
| 3  | Name of the Mine   | Sahegaon Limestone Mine   |
| 4  | Total Lease Area (Ha) with breakup of Non-forest and forest land                                     | Forest: NIL<br>Non Forest: 5.90 Ha.<br>Total Lease Area: 5.90 Ha.   |
| 5  | Mine Code  | 38MPR13023  |
| 6  | IBM Registration Number under rule 45 of MCDR, 1988  | IBM/10048/2012  |
| 7  | Name of the lessee, Address, phone, email and fax number   | Shri S. N. Agrawal<br>Shop No. 77 'A' Market, Sector -1, Bhilai,<br>District Durg – 491001 (Chhattisgarh)<br>Mob. 09425236339<br>Email: anand_aprillin@yahoo.co.in  |
| 8  | Village  | Sahegaon  |
| 8  | Taluka / Mandal / District   | Tehsil: Dhamdha; District: Durg   |
| 10 | State  | Chhattisgarh  |
| 11 | Post office & PIN  | Nandini, Pin Code: 491036   |
| 12 | Nearest police station   | Nandini Nagar   |
| 13 | Nearest Railway station  | Durg  |
| 14 | Date of Grant of Mining Lease  | 01/07/1999 to 30/06/2019 (20 Years)<br>Supplementary lease agreement for extended period as per section 8A of MMDR Amendment Act, 2015 has not been made.<br>Validity of the lease period has been expired. |
| 15 | Date of Execution  | 01/07/1999  |
| 16 | Date of opening of Mine  | 01/07/1999  |
| 17 | Date of first Renewal, if applicable and its period & expiry   | NA  |
| 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. N. Agrawal<br>Shop No. 77 'A' Market, Sector -1, Bhilai,<br>District Durg – 491001 (Chhattisgarh)<br>Mob. 09425236339<br>Email: anand_aprillin@yahoo.co.in  |
| 21 | Name of the Mine Agent with Address, phone, email, fax number and date of appointment                | Not Appointed   |

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|----|---|--|
| 22 | Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines   | Not Appointed  |
| 23 | Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine      | Not Appointed  |
| 24 | Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57 of MCDR, 2017. | Not Appointed  |
| 25 | Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.               | <b>Mining Plan</b> approved vide letter no. DRG/LST/MPLN-29/NGP Nagpur Dated 18/10/1988<br>Period: 1989-90 to 1993-94<br><br><b>Mining Plan</b> approved vide letter no. DRG/LST/MPLN-29/NGP Nagpur Dated 20/11/1997<br>Period: 1997-1998 to 2003-04 (07 Years)  |
| 26 | Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.     | <b>Scheme of Mining</b> approved vide letter no. DRG/LST/MPLN-29/NGP Nagpur Dated 04/05/2009<br>Period: 2009-10 to 2013-14<br><br><b>Review of Mining Plan</b> approved vide letter no. DRG/LST/MPLN-29/NGP/2015-II/10-RPR Raipur Dated 02/08/2016<br>Period: 2016-17 to 2018-19<br>(Lapse Period: 2014-15 to 2015-16) |
| 27 | Mineral(s) granted in lease and proved for mining   | Limestone  |
| 28 | Method of Mining (Opencast, Underground)  | Opencast   |
| 29 | Category (Fully Mechanised, Others or Manual)   | Category 'A' Mechanised  |
| 30 | Captive/Non Captive   | Non Captive  |
| 31 | Existing EC Limit and validity  | Limestone (ROM) average 27000.00 Metric Tonnes Per Annum, obtained from the State Level Environment Impact Assessment Authority Chhattisgarh, Government of India, Ministry of Environment and Forest vide letter no. 516/SEAC-CG/EC/Mining/Durg/148 Raipur dated 07/01/2011   |
| 32 | Status of Financial Assurance as per rule 27 of MCDR, 2017  | Rs. 2,00,000/- Vide BG No. 0509IGPER009215 dated 22/07/2015 valid up to 31/03/2019<br>Rs. 13,66,000/- vide BG No. 0509IGPER004517 dated 12/09/2017 valid up to 31/03/2019  |

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –

### **1.0 Exploration**

| SN | Item   | Proposals  | Actual work   | Remarks                                    |
|----|--|--|---|--|
| 1a | Backlog of previous year   | <b>2016-17 to 2018-19:</b><br>03 no. of borehole with cumulative depth of 90 meters. (01 no. of borehole every year) | None of the boreholes have been drilled.  | Deviation has been pointed out.            |
| 1b | Exploration over lease area for Geological axis 1 or 2.            | <b>2016-17 to 2018-19:</b><br>03 no. of borehole with cumulative depth of 90 meters. (01 no. of borehole every year) | None of the boreholes have been drilled.  | Limestone is exposed in the working quarry |
| 1c | Exploration Agency & Expenditure in lakh Rupees during the year    | Not mentioned in the approved document.  | Not Applicable.   | -  |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2     | Proposal has not been given in the approved document.  | Not Applicable.   | Limestone is exposed in the quarry         |
| 1e | Balance reserves as on 01.04.2019 in Metric Tonnes                 | Under (111): 0.586 Million Tonnes<br>Under (121): 2.132 Million Tonnes<br>Under (211): 1.169 Million Tonnes          | Under (111): 0.739 Million Tonnes<br>Under (121): 2.132 Million Tonnes<br>Under (211): 1.169 Million Tonnes | -  |
| 1f | General remarks of inspecting officer on geology, exploration etc. | NIL  |   |  |

### **2.0 Development**

| SN | Item                                      | Proposals  | Actual work  | Remarks  |
|----|---|--|--|--|
| 2a | Location of development w.r.t. lease area | All along the lease boundary with systematic benching. | Mining is being carried out irregularly in several places such as Northern part, Eastern part and Southern part of the lease area. Most of places 7.5m barrier zone has been mined out up to 15-20m down from present ground | Deviation has been pointed out. Mining is being done without any approved proposal since April 2019. |

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|----|---|--|---|---|
| 2b | Separate benches in topsoil, overburden and mineral (Rule 13 of MCDR, 2017)             | Topsoil: 01 no.<br>Mineral/Ore – 03 nos.<br>Waste/OB/IB: 01 no.  | Topsoil: Nil<br>Mineral/Ore – 03 nos.<br>Waste/OB/IB: Nil   | -   |
| 2c | Stripping ratio or ore to OB ratio  | Not mentioned in the approved document.  | 1: 0.0  | No waste has been generated during F.Y. 2018-19 |
| 2d | Quantity of topsoil generation in m3  | No topsoil will be generated during review period.   | Very less topsoil present in the lease area. The entire development has been done in mineral benches. | -   |
| 2e | Quantity of overburden generation in m3   | NIL overburden will be generated during review period.   | No overburden has been generated during last F.Y. i.e. 2018-19  | -   |
| 2f | General remarks of inspecting officer on development of pit w.r.t. type of deposit etc. | Mining is being carried out irregularly in several places such as Northern part, and Southern part of the lease area. Most of places 7.5m barrier zone has been mined out up to 15-20m down from present ground RL without any proposal. |   |   |

### **3.0 Exploitation**

| SN | Item  | Proposals   | Actual work                                     | Remarks |
|----|---|---|---|---------|
| 3a | Number of pits proposed for production                          | 01  | 01  | -       |
| 3b | Quantity of ROM mineral production proposed                     | 60,762.782 Metric Tonnes                                | 7590.000 Metric Tonnes                          | -       |
| 3c | Recovery of salable/usable mineral from ROM production          | 57,224.642 Metric Tonnes (90% of ROM)                   | 7590.000 Metric Tonnes (100% of ROM)            | -       |
| 3d | Quantity of mineral reject generation                           | 2038.138 Metric Tonnes                                  | No mineral reject generated during F.Y. 2018-19 | -       |
| 3e | Grade of mineral reject generation and threshold value declared | Not mentioned in the approved document.                 | Not applicable.                                 | -       |
| 3f | Quantity of sub-grade mineral generation                        | No sub-grade ore will be generated during F.Y. 2018-19. | Not applicable.                                 | -       |
| 3g | Grade of sub-grade mineral generation                           | Not mentioned in the approved document.                 | Not applicable.                                 | -       |
| 3h | Manual / Mechanised method adopted for                          | Not proposed in the approved                            | Sizing is being done from mechanised            | -       |

|    | segregating from ROM   | document.   | method.   |                                 |
|----|--|---|---|---------------------------------|
| 3i | Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject          | Not proposed in the approved document.  | Not applicable.   | -                               |
| 3j | Provision of drilling & blasting in mineral benches  | Dia: 34 mm<br>Spacing: 1.0 m<br>Burden: 0.9 m<br>Depth: 2.8 to 3.0 m  | Dia: 34 mm<br>Spacing: 1.0 m<br>Burden: 0.9 m<br>Depth: 2.8 to 3.0 m  | -                               |
| 3k | Provision of mining machineries in mineral benches   | <ol style="list-style-type: none"> <li>1. Air Compressor 01 no. with 300 cfm capacity</li> <li>2. Jackhammer 01 no.</li> <li>3. Portable Magazine 01 no. with 100 kg capacity</li> <li>4. Exploder 01 no. with 100 shots capacity</li> <li>5. Tipper 03 nos. with 16 tonnes capacity</li> <li>6. Shovel 01 no. with 1.2 cum bucket capacity.</li> </ol> | <ol style="list-style-type: none"> <li>1. Air Compressor 01 no. with 300 cfm capacity</li> <li>2. Jackhammer 01 no.</li> <li>3. Portable Magazine 01 no. with 100 kg capacity</li> <li>4. Exploder 01 no. with 100 shots capacity</li> <li>5. Tipper 03 nos. with 16 tonnes capacity</li> <li>6. Shovel 01 no. with 1.2 cum bucket capacity.</li> </ol> | -                               |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Mineral/Ore: 3.0 meters<br>Topsoil: 0.5 meter to 1.0 meter.<br>Waste/OB/IB: NIL   | Mineral/Ore: 15-20 m at 7.5m barrier zone   | Deviation has been pointed out. |
| 3m | Total area covered under excavation/pits   | Pits: 5.00 ha<br>Up to end of review period.  | Pits: 5.90 ha area has been covered under working pit.  | -                               |
| 3n | Ore to OB ratio for the pit/mine during the year   | Not mentioned in the approved document.   | 1:0.0   |                                 |
| 3o | Total area put in use under different heads at the end of year                                       | Pit- 5.00 ha.<br>Waste/reject- 0.028 ha.<br>Others- 0.1 ha.<br>Up to end of review period.  | Pit- 5.90 ha area has been covered under working pit.   |                                 |

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|----|---|--|--|--|
| 3p | Production of ROM mineral during last five-year period, as applicable | Yr-2014-15:<br>NIL<br><br>Yr-2015-16:<br>NIL<br><br>Yr-2016-17:<br>60,232.686 Metric Tonnes<br><br>Yr- 2017-18:<br>60,125.141 Metric Tonnes<br><br>Yr- 2018-19:<br>60762.782 Metric Tonnes | Yr-2014-15:<br>4500.00 Metric Tonnes<br><br>Yr-2015-16:<br>4500.00 Metric Tonnes<br><br>Yr-2016-17:<br>13,100.00 Metric Tonnes<br><br>Yr- 2017-18:<br>6650.00 Metric Tonnes<br><br>Yr- 2018-19:<br>7590.00 Metric Tonnes | Lapse Period:<br>2014-15 to<br>2015-16 |
| 3q | General remarks of inspecting officer on method of mining etc.        | NIL  |  |  |

#### 4.0 Solid Waste Management-Dumping

| SN | Item   | Proposals  | Actual work  | Remarks |
|----|--|--|--|---------|
| 4a | Separate dumping of topsoil, OB & mineral reject (Rule 36, 37 of MCDR, 2017) | Mineral Reject: Northern Part the lease area           | Mineral Reject: No dump has been made within lease area. | -       |
| 4b | Location of topsoil, OB & mineral reject dumps                               | Mineral Reject: Northern Part the lease area           | Mineral Reject: No dump has been made within lease area. | -       |
| 4c | Number of dumps within lease area and outside lease area                     | Within lease area 01 no.                               | Within lease area 01 no.                                 | -       |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 14 of MCDR, 2017)          | Proposed beyond ultimate pit limit.                    | No dump has been made within lease area.                 | -       |
| 4e | Number of active & alive dumps   | Proposed 01 no.  | No dump has been made within lease area.                 | -       |
| 4f | Number of dead dumps   | Proposal; has not been given in the approved document. | Not applicable.  | -       |
| 4g | Number of dumps stabilised   | Proposal; has not been given in the approved document. | Not applicable.  | -       |

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| 4h | Whether Retaining wall or garland drain all along dumps are there | Proposal; has not been given in the approved document. | Not applicable. | -   |
| 4i | Length of Retaining wall or garland drain all along dump          | Not mentioned in the approved document.                | Not applicable. | No dump has been present within lease area. |
| 4j | Number of settling ponds  | Proposal; has not been given in the approved document. | Not applicable. |   |
| 4k | Specific comments of inspecting officer                           | NIL  |                 |   |

### **5.0 Solid Waste Management-Backfilling**

| SN | Item  | Proposals  | Actual work   | Remarks |
|----|---|--|---|---------|
| 5a | Status on part or full extraction of mineral from mined out area before starting backfilling          | Proposal for full extraction of mineral from mined out area before starting backfilling has been given at the conceptual stage.  | Area not matured for backfilling at present.                    | -       |
| 5b | Area under backfilling of mined out area  | Proposal; has not been given in the approved document.   | Area not matured for backfilling at present.                    | -       |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36 of MCDR, 2017) | Proposal; has not been given in the approved document.   | No topsoil present in the lease area.                           | -       |
| 5d | Total area fully reclaimed & rehabilitated  | Proposal; has not been given in the approved document.   | Area not matured for reclamation and rehabilitation at present. | -       |
| 5e | General remarks of inspecting officer on backfilling, reclamation etc                                 | In most of the places 7.5 m barrier zone has been mined out up to 15-20m down from present ground RL. In view of the systematic mining, these areas are required to be backfilled. |   |         |

### **6.0 Progressive Mine Closure Plan**

| SN | Item   | Proposals                                  | Actual work            | Remarks                         |
|----|--|--|------------------------|---------------------------------|
| 6a | Whether Annual report on PMCP submitted on time and correctly - Rule 26(2) of MCDR, 2017. Details should be given in the format as given in Annexure-20. | Not submitted for F.Y. 2017-18 and 2018-19 | No work has been done. | Deviation has been pointed out. |

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|----|---|--|--|---------------------------------|
| 6b | Management of worked/mined out benches<br>i) Area available for rehabilitation (ha)<br>ii) Afforestation done (ha)<br>iii) No. of saplings planted during the year<br>iv) Cumulative no. of plants<br>v) Any other specific method of rehabilitation<br>vi) Cost incurred on watch & care during the year | 0.80 Ha.(Along 7.5 m)<br>600 nos.<br><br>600 nos.<br><br>Not proposed.<br><br>Not proposed.                  | Not done<br>Not done<br><br>NIL<br><br>Not done<br><br>Not done          | Deviation has been pointed out  |
| 6c | Compliance on reclamation and rehabilitation by backfilling<br>i) Voids available for backfilling (L X B X D)<br>ii) Void filled by waste/tailings<br>iii) Afforestation on the backfilled area<br>iv) Rehabilitation by making water reservoir<br>v) Any other specific means                            | Not proposed<br><br>Not proposed<br><br>200 nos.<br><br>Not proposed<br><br>Not proposed.                    | Not done<br><br>Not done<br><br>Not done<br><br>Not done<br><br>Not done |                                 |
| 6d | Compliance of Rehabilitation of waste land within lease<br>i) Afforestation<br>ii) Area rehabilitated (ha)<br>iii) Method of rehabilitation   | 600 nos.<br>0.80 ha (Up to end of review period)   | Not done<br>Not done   |                                 |
| 6e | Compliance of Environmental monitoring (core zone & buffer zone)  | Yearly monitoring of Ambient Air, Water Quality and Noise Vibration has been given in the approved document. | Not done.  | Deviation has been pointed out. |
| 6f | General remarks of inspecting officer on PMCP compliance & progressive  | NIL  |  |                                 |

## **7.0 Mineral Conservation**

| SN | Item   | Proposals   | Actual work                 | Remarks |
|----|--|---|-----------------------------|---------|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | Proposal for grade wise sorting of ROM has been given based on the buyer's specification. | Being done as per proposal. | -       |



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|----|--|---|-----------------|--|
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical                       | Not mentioned in the approved document. | Not applicable. |  |
| 7c | Different grade of mineral sorted out at mines                                       | Not mentioned in the approved document. | Not applicable. |  |
| 7d | Any beneficiation process at mines   | Not proposed in the approved document.  | Not applicable. |  |
| 7e | General remarks of inspecting officer on Mineral conservation & beneficiation issues | NIL                                     |                 |  |

## **8.0 Environment**

| SN | Item  | Proposals   | Actual work   | Remarks                         |
|----|---|---|---|---------------------------------|
| 8a | Separate removal and utilization of topsoil (Rule 32)   | Thickness of top soil: 0.60 m;<br>Proposal for separate stacking of topsoil has been given in the approved document. Topsoil will be utilised for plantation purpose. | Very less topsoil present in the lease area. The entire development has been done within the quarry; hence, no topsoil has been generated during review period. | -                               |
| 8b | Concurrent use or storage of topsoil  | Concurrent use of topsoil has been given for future reclamation purpose.  | Not applicable at present.  | -                               |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33)                                      | Mineral Reject: Northern side of the lease area   | No reject dump has been found within lease area.  | -                               |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use           | Proposal has not been given in the approved document.   | Not applicable at present.  | -                               |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | Proposal has not been given in the approved document.   | Not applicable.   | -                               |
| 8f | Baseline information on existence of plantation & additional plantation done (Rule 44 of MCDR, 2017)        | Proposal: 600 plants<br>Area covered: 0.80 Ha.  | Not done.   | Deviation has been pointed out. |
| 8g | Survival rate   | Not mentioned in the approved document.   | Plantation not done. 0% survival rate.  | -                               |
| 8h | Water sprinkling on roads to control airborne dust  | Proposal has not been given in the approved document.   | Water sprinkling on roads is not in the practiced.  | -                               |

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| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines are | NIL |
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### **9.0 Compliance of Rule 45**

| S. N. | Item   | COMMENTS  | Remarks  |
|-------|--|---|--|
|       | Status of submission of Monthly and Annual returns | M.R. Submitted upto – May 2019<br>A.R. submitted upto- F.Y. 2017-18 | A.R. for F.Y. 2018-19 is not submitted so far. |

| S. N. | Item  | Details GIVEN in A.R.                                   | Observation of I/Officer  | Remarks   |
|-------|---|---|---|---|
| 9b    | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager           | Annual Returns for F.Y. 2018-19 has not been submitted. | Not Appointed.  | Deviation has been pointed out.   |
| 9c    | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Annual Returns for F.Y. 2018-19 has not been submitted. | Almost entire 5.90 Ha. area has been utilised under current working.                | -   |
| 9d    | Scrutiny of Annual return on Afforestation  | Annual Returns for F.Y. 2018-19 has not been submitted. | Could not be ascertained as annual returns for F.Y. 2018-19 has not been submitted. | -   |
| 9e    | Scrutiny of Annual return on mineral reject generation (Grade & quantity)                     | Annual Returns for F.Y. 2018-19 has not been submitted. | Could not be ascertained as annual returns for F.Y. 2018-19 has not been submitted. | -   |
| 9f    | Scrutiny of Annual return on ROM stock and/or graded ore                                      | Graded Ore Closing Stock: 3128.258 Metric Tonnes        | Graded Ore Closing Stock: 3128.258 Metric Tonnes                                    | Quantity of Closing Stock has been obtained from M.R. for the month of May 2019 |
| 9g    | Scrutiny of Annual return on sale value, Ex. Mine price & production cost                     | Annual Returns for F.Y. 2018-19 has not been submitted. | Could not be ascertained as annual returns for F.Y. 2018-19 has not been submitted. | -   |

|    |   |   |   |   |
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| 9i | Scrutiny of Annual return on fixed assets       | Annual Returns for F.Y. 2018-19 has not been submitted. | Could not be ascertained as annual returns for F.Y. 2018-19 has not been submitted. | - |
| 9k | Scrutiny of Annual return on mining machineries | Annual Returns for F.Y. 2018-19 has not been submitted. | Could not be ascertained as annual returns for F.Y. 2018-19 has not been submitted. | - |

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

Date of Last Inspection, Name and Designation of the Inspecting Officer:

Shri J. S. Hada, AMG, Date of Inspection: 19/08/2018

**Previous outstanding Violation:-** Rule 11(1) and 11(4) of MCDR, 2017

Details of the Violations Pointed-out during Inspections:

**Order of Suspension of Mining Operations has been issued vide letter no. क्र०- छाग०/दुर्ग/चूप. -20/रायपुर दिनांक 10/07/2019 to the lessee for non compliance of outstanding violations.**

(Name of the Inspecting Officer and Designation and Date)

(Shaival Kartikeya)  
Jr. Mining Geologist  
Indian Bureau of Mines, Raipur  
Date of Inspection: 24/06/2019