

# MCDR INSPECTION REPORT

## 1.0 GENERAL

| SN | Particulars  | Details  |
|----|--|--|
| 1  | Name of inspecting officer & designation & accompanying person                                       | Arun Kumar Gadatia, Assistant Mining Engineer, Indian Bureau of Mines, Raipur  |
| 2  | Date of inspection   | 07/12/2021 (By Shri Amit Soni (Representative of Owner)).  |
| 3  | Name of the Mine   | Badanji Limestone Mine   |
| 4  | Total Lease Area (Ha) with breakup of Non-forest and forest land                                     | Total Lease Area – 1.53 Ha. (Non-Forest Govt Land)   |
| 5  | Mine Code  | 38CHG01006   |
| 6  | IBM Registration Number under rule 45 of MCDR, 1988  | IBM/7870/2012  |
| 7  | Name of the lessee, Address, phone, email and fax number   | Smt. Usha K. Rajpuria,<br>B-301, C.G. Heights,<br>Daldal Seoni Mova, District- Raipur (C.G.)492007<br>Mob. No.- 9826604001<br>Email –krajpuria@yahoo.co.in                       |
| 8  | Village  | Rajoor   |
| 8  | Taluka/Mandal/ District  | Tokapal, District- Bastar  |
| 10 | State  | Chhattisgarh   |
| 11 | Post office & PIN  | 494442   |
| 12 | Nearest police station   | Bastar   |
| 13 | Nearest Railway station  | Jagdapur   |
| 14 | Date of Grant of Mining Lease  | 23/10/1996   |
| 15 | Date of Execution  | 22/10/2046   |
| 16 | Date of opening of Mine  | -  |
| 17 | Date of first Renewal, if applicable and its period & expiry   | Nil  |
| 18 | Date of second Renewal, if applicable and its period & expiry  | Nil  |
| 19 | Date of submission of renewal application if Mining Operations are continuing under deemed extension | Nil  |
| 20 | Name of the Nominated Owner with Address, phone, email, fax number and date of appointment           | NA   |
| 21 | Name of the Mine Agent with Address, phone, email, fax number and date of appointment                | NA   |
| 22 | Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines    | Name- Krishna Kumar Tandan<br>Address- Ward No.19, H.No. 181, Near Guru Ghasidas Temple, Tarbahar Bilaspur (C.G.) 495001<br>Mob.- 78987-63202<br>Date of appointment –29/11/2021 |

|    |   |   |
|----|---|---|
| 23 | Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine  | Name- Krishna Kumar Tandan<br>Address- Ward No.19, H.No. 181, Near Guru Ghasidas Temple, Tarbahar Bilaspur (C.G.) 495001<br><br>Mob.- 78987-63202<br>Date of appointment –29/11/2021  |
| 24 | Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56&57.              | Yes, as per rule followed by Geologist and Mining Engineer  |
| 25 | Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.           | Date of Approval of Review of Mining Plan vide letter No. BST/LST/MPLN-1271/2021- Raipur dated 17/05/2021<br>For Period – 2021-22 to 2025-26<br><br>Specific condition:- General condition has been given in approval letter. |
| 26 | Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any. | Nil   |
| 27 | Mineral(s) granted in lease and proved for mining   | Limestone   |
| 28 | Method of Mining(Opencast, Underground)   | Opencast Mining under 'B' Category (Manual)   |
| 29 | Category (Fully Mechanised, Others or Manual)   | 'B' Category (Manual),  |
| 30 | Captive/Non Captive   | Non Captive   |
| 31 | Existing EC Limit and validity  | 8800 Tonne  |
| 32 | Status of Financial Assurance as per rule 27 of MCDR, 2017  | FA amount submitted as per rule and Validity – Upto 19/12/2022.<br>Extended upto 31/03/2026   |

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

### **1.0 Exploration**

#### **2.0**

| SN | Item  | Proposals   | Actual work | Remarks                            |
|----|---|-------------|-------------|------------------------------------|
| 1a | Backlog of previous year  | No          | No          |                                    |
| 1b | Exploration over lease area for Geological axis 1 or 2.         | No proposal | No proposal | Not proposed during period 2020-21 |
| 1c | Exploration Agency & Expenditure in lakh Rupees during the year | NA          | NA          | NA                                 |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2  | Nil         | Nil         |                                    |

|    |  |   |  |  |
|----|--|---|--|--|
| 1e | Balance reserves as on 01.04.2020 (in Million Tonnes)              | Under (111): Million Tonnes<br>Under (121): Million Tonnes<br>Under (122): <b>0.067231</b> Million Tonnes<br>Under (211): Million Tonnes<br>Under (221): Million Tonnes<br>Under (222): <b>0.051579</b> Million Tonnes<br>Under (331): Million Tonnes<br>Under (332): Million Tonnes<br>Under (333): Million Tonnes<br>Under (334): Million Tonnes  | Under (111): Million Tonnes<br>Under (121): Million Tonnes<br>Under (122): <b>0.061336</b> Million Tonnes<br>Under (211): Million Tonnes<br>Under (221): Million Tonnes<br>Under (222): <b>0.051579</b> Million Tonnes<br>Under (331): Million Tonnes<br>Under (332): Million Tonnes<br>Under (333): Million Tonnes<br>Under (334): Million Tonnes | Mine out reserves = <b>0.005895</b> Million Tonne (Year- 2016-17 to 2020-21) |
| 1f | General remarks of inspecting officer on geology, exploration etc. | <p>The deposit is simple bedded type. Almost flat having 2-3 °. The laese area is exposed due to excavation. Two benches are in water logged area.</p> <p>Earlier in the period of Mining Plan/ Scheme of Mining Plan no any exploratory work carried out by the Applicant.</p> <p>The result has been done co-related with mine working pit and at present, the sufficient quantity of limestone is proved for the mining operation in the five year.</p> <p>Two core hole bore drill proposed for the year 2021-22.</p> |  |  |

## 2.0 Development

| SN | Item  | Proposals                        | Actual work  | Remarks                |
|----|---|----------------------------------|--|------------------------|
| 2a | Location of development w.r.t. lease area (Range in UTM/Local Coordinate/Plot No./Location) | Centre part of lease area        | During mine visit it was observed that mine working is extended 7.5 mtr safety zone area | Violation pointed out. |
| 2b | Separate benches in topsoil, overburden and mineral (Rule 13)                               | Top soil – Nil<br>Mineral -2.0M. | Already exposed. There is no top soil.   |                        |
| 2c | Stripping ratio or ore to OB ratio  | 1:0.00                           | 1:0.00   |                        |
| 2d | Quantity of topsoil generation in m3  | Nil                              | Nil  |                        |
| 2e | Quantity of overburden generation in m3   | Nil                              | Nil  |                        |

|    |   |  |
|----|---|--|
| 2f | General remarks of inspecting officer on development of pit w.r.t. type of deposit etc. | The Lease is very small, and the ML Area is almost exposed due to mining. The mining is very small in manual method. |
|----|---|--|

### **3.0 Exploitation**

| SN | Item   | Proposals                                       | Actual work                                     | Remarks   |
|----|--|---|---|---|
| 3a | Number of pits proposed for production   | 1 pit   | As per proposal                                 |   |
| 3b | Quantity of ROM mineral production proposed  | 10000 Tonne                                     | 1597 T  |   |
| 3c | Recovery of saleable/usable mineral from ROM production  | 8360 T  | Nil   |   |
| 3d | Quantity of mineral reject generation  | 440 T   | 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  | Nil   | Nil   |   |
| 3h | Manual / Mechanised method adopted for segregating from ROM  | Manual  | Manual  |   |
| 3i | Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject          | Nil   | Nil   |   |
| 3j | Provision of drilling & blasting in mineral benches  | No drilling and blating proposed.               | Not observed.                                   | No drilling and blasting proposed.                            |
| 3k | Provision of mining machineries in mineral benches   | Jack Hammer                                     | As per proposal                                 | No mining machineries observed as the deposit is bedded form. |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Bench height of Mineral – 2.0M.                 | As per proposal                                 | Broadly the bench height is as per proposal.                  |
| 3m | Total area covered under excavation/pits   | 0.942 Ha  | 0.80 ha   | Broadly as per proposal.                                      |
| 3n | Ore to OB ratio for the pit/mine during the year   | 1:0.05  | 1:0.00  | Broadly as per proposal.                                      |
| 3o | Total area put in use under different heads at the end of year                                       | Pit-0.942 Ha<br>Waste -0.06Ha<br>Soil – 0.000Ha | Pit-0.80 Ha<br>Waste -0.000Ha<br>Soil – 0.000Ha |   |

|    |  |  |  |  |
|----|--|--|--|--|
| 3p | Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes) | Year- 2016-17:<br><b>8000T</b><br>Year- 2017-18:<br><b>8000T</b><br>Year- 2018-19:<br><b>8400T</b><br>Year- 2019-20:<br><b>8400T</b><br>Year- 2020-21:<br><b>8800T</b> | Year- 2016-17:<br><b>1920T</b><br>Year- 2017-18:<br><b>2378T</b><br>Year- 2018-19: Nil<br>Year- 2019-20: Nil<br>Year- 2020-21:<br><b>1597T</b> |  |
| 3q | General remarks of inspecting officer on method of mining etc.                           | The method of mining is opencast manually and it is as per proposal.   |  |  |

#### 4.0 Solid Waste Management-Dumping

| SN | Item   | Proposals  | Actual work                                   | Remarks                                |
|----|--|--|---|--|
| 4a | Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)                                   | Topsoil-Nil<br>OB-20cum<br>Mineral Reject-Nil  | A Topsoil-Nil<br>OB-Nil<br>Mineral Reject-Nil | No OB proposal in 2020-21 and 2021-22. |
| 4b | Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location) | In southern side of the area   | No Major Dump                                 | Waste is used for backfilling.         |
| 4c | Number of dumps within lease area and out side lease area  | 1 nos.   | Nil   |  |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 14)  | Along lease boundary   | Nil   |  |
| 4e | Number of active & alive dumps   | Nil  | NA  |  |
| 4f | Number of dead dumps   | Nil  | NA  |  |
| 4g | Number of dumps stabilised   | Nil  | NA  |  |
| 4h | Whether Retaining wall or garland drain all along dumps are there                                | Nil  | NA  |  |
| 4i | Length of Retaining wall or garland drain all along dump   | Nil  | NA  |  |
| 4j | Number of settling ponds   | Nil  | NA  |  |
| 4k | Specific comments of inspecting officer  | The Mining is very small scale mining and the area is already exposed due to excavation and waste generation is negligible. The benches are is water logged. |   |  |

## 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 | Not proposed  | NA          | Small area in 7.5 mtr is started back filling. |
| 5b | Area under backfilling of mined out area   | Not proposed  | NA          |  |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)      | Not proposed  | NA          |  |
| 5d | Total area fully reclaimed & rehabilitated   | Not proposed  | NA          |  |
| 5e | General remarks of inspecting officer on backfilling, reclamation etc                        | No back filling and reclamation is done. During mine visit it was observed that some places working extended 7.5 mtr and the same area is started back filling. |             |  |

## 6.0 Progressive Mine Closure Plan

| SN | Item  | Proposals  | Actual work   | Remarks |
|----|---|--|---|---------|
| 6a | Whether Annual report on PMCP submitted on time and correctly - Rule 23. Details should be given in the format as given in Annexure-20.   | Yes  | Submitted as per norms  |         |
| 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 | i) Nil<br>ii) 0.037<br>iii) 200nos.<br>iv) 1000nos.<br>v) Nil<br>vi) 35000/- | i) NA<br>ii) 0.010<br>iii) 15nos<br>iv) 15nos.<br>v) NA<br>vi) 1000/- |         |
| 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   | NA  |         |
| 6d | Compliance of Rehabilitation of waste land within lease<br>i) Afforestation   | Not proposed   | NA  |         |

|    |  |                              |                          |  |
|----|--|------------------------------|--------------------------|--|
|    | ii) Area rehabilitated (ha)<br>iii) Method of rehabilitation           |                              |                          |  |
| 6e | Compliance of Environmental monitoring (core zone & buffer zone)       | Env. Monitoring was proposed | Under limit as per norms |  |
| 6f | General remarks of inspecting officer on PMCP compliance & progressive | Survival rate is very less.  |                          |  |

### **7.0 Mineral Conservation**

| SN | Item   | Proposals                               | Actual work      | Remarks |
|----|--|---|------------------|---------|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area                         | Not proposed                            | Nil              |         |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical                       | Not proposed                            | NA               |         |
| 7c | Different grade of mineral sorted out at mines                                       | Not proposed                            | NA               |         |
| 7d | Any beneficiation process at mines   | No beneficiation                        | No beneficiation |         |
| 7e | General remarks of inspecting officer on Mineral conservation & beneficiation issues | Broadly the ROM is directly dispatched. |                  |         |

### **8.0 Environment**

| SN | Item  | Proposals      | Actual work | Remarks  |
|----|---|----------------|-------------|--|
| 8a | Separate removal and utilization of topsoil (Rule 36)   | Not proposed   | NA          |  |
| 8b | Concurrent use or storage of topsoil  | Not proposed   | NA          |  |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 37)                                      | Separate dumps | Nil         | Waste generation is negligible & used for back filling in 7.5 mtrs safety barrier. |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use           | For dump       | Nil         |  |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | Nil            | NA          |  |
| 8f | Baseline information on existence of plantation &   | 200nos         | 15nos.      |  |

|    |   |  |                 |  |
|----|---|--|-----------------|--|
|    | additional plantation done (Rule 44)  |  |                 |  |
| 8g | Survival rate   | 80%  | Nil             |  |
| 8h | Water sprinkling on roads to control airborne dust                                | Proposed   | As per proposal |  |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines are | As mentioned earlier the mining is small scale working and adverse observed due to mining on aesthetic beauty. Beside mine there are some plantations in school and road side. |                 |  |

### **9.0 Compliance of Rule 45**

| S. N. | Item  | COMMENTS  |   | Remarks            |
|-------|---|---|---|--------------------|
|       | Status of submission of Monthly and Annual returns  | Monthly Return is Submitted upto– January 2021<br>Annual Return is submitted upto- 2020-21  |   | Submitted in Time. |
| 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           | Notice of certain appointment letter of Mining Engineer and Geologist is submitted in Form-H.   | Notice of certain appointment letter of Mining Engineer and Geologist is submitted in Form-H. |                    |
| 9c    | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Area under pit: 1.53 Ha.<br>Already exploited and abandoned by opencast mining – 0.300 Ha.<br>Reclaimed/ Rehabilitated : Nil<br>Use for waste disposal : Nil<br>Occupied by plant, building residential, welfare building & roads: Nil<br>Other purpose : Nil | It was observed that the mine is under working  |                    |
| 9d    | Scrutiny of Annual return on afforestation  | Nil   |   |                    |
| 9e    | Scrutiny of Annual return on mineral reject generation (Grade & quantity)                     | Nil   |   |                    |
| 9f    | Scrutiny of Annual return on ROM stock and/or graded ore                                      | Closing stock- 1391 tonnes  | Grade not mentioned.  |                    |
| 9g    | Scrutiny of Annual return on sale value, Ex. Mine   | Ex mine price – Rs 260/-  |   |                    |



|    |   |                                     |   |                             |
|----|---|-------------------------------------|---|-----------------------------|
|    | price & production cost                         | Cost of production -<br>Rs 176.83/- |   |                             |
| 9i | Scrutiny of Annual return on fixed assets       | Fixed assets- Rs. 74000/-           | Depreciation on fixed assets- Rs. 15000/- | Mentioned in Annual Return. |
| 9k | Scrutiny of Annual return on mining machineries | Manual method of mining.            |   | No Machineries required.    |

**Details of compliance position of earlier violation pointed out:- No outstanding violations.**

**Date of last inspection, Name and Designation of the inspecting Officer:**

**Shri Rudra Narayan Mishra, Senior Mining Geologist. 06-01-2021**

**During Present inspection violation pointed out under Rule 11(1) of MCDR, 2017.**

| नियम         | उल्लंघन के प्रकार का विस्तृत ब्यौरा   |
|--------------|---|
| <b>11(1)</b> | The following deviation have been found in the mine from Modified Mining Plan vide letter No. BST/LST/MPLN-1271 /2021- Raipur, dated 17/05/2021 for the period of 2021-22 to 2025-26.<br><br>During mine visit it was observed that mine working is extended 7.5 mtr safety zone area |

**(Name of the inspecting Officer)**

**Arun Kumar Gadatia  
Asstt. Mining Engineer  
Raipur Regional office**