

MCDR INSPECTION REPORT

**General**

| <b>S. N.</b> | <b>Particulars</b>   | <b>Details</b>   |
|--------------|--|--|
| 1            | Name of the Mine, Inspecting officer with Designation, Date of Inspection  | Bhalukona Limestone Mine, Rajesh Kumar Das, SrACOM, 14.07.2017   |
| 2            | Total Lease Area (Ha) with breakup of Non-forest and forest land   | 3.198 ha. Govt. Land   |
| 3            | Mine code  | 38MPR28016   |
| 4            | IBM Registration Number under rule 45 of MCDR, 1988  | IBM/10758/2012   |
| 5            | Name of the lessee, Address, phone, email and fax number   | Shri Saurabh Agarwal, C/66, Sector-4, Devendra Nagar, Raipur, Chhattisgarh-492004  |
| 6            | Village  | Bhalukona  |
| 7            | Taluka/Mandal  | Palari   |
| 8            | District   | Baloda Bazar   |
| 9            | Pincode  |  |
| 10           | State  | Chhattisgarh   |
| 11           | Post office  | Palari   |
| 12           | Nearest police station   | Palari   |
| 13           | Nearest Railway station  | Bhatapara  |
| 14           | Date of Grant of Mining Lease  | 22.07.1987   |
| 15           | Date of Execution  | 26.02.2015 after renewal   |
| 16           | Date of opening of Mine  | 1991   |
| 17           | Date of first Renewal, if applicable and its period & expiry   | Lease renewed on 20.12.2010 for period 22.07.2007 to 21.07.2027  |
| 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   | 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                                      | Shri Sanjay Sopanrad Chincole, Manager, C/O Shri Saurabh Agarwal, C/66, Sector-4, Devendra Nagar, Raipur, Chhattisgarh-492004, <a href="mailto:kapilmining@gmail.com">kapilmining@gmail.com</a> , <a href="tel:0771-4240004">phone</a> no-0771-4240004 |
| 23           | Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine | Shri Pramod Pandey, Mining Engineer, C/O Shri Saurabh Agarwal, C/66, Sector-4, Devendra Nagar, Raipur, Chhattisgarh-492004, <a href="mailto:kapilmining@gmail.com">kapilmining@gmail.com</a> Phone no-0771-4240004                                     |
| 24           | Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.          | Mining Engineer appointed but geologist yet to be appointed.   |
| 25           | Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.          | 14.09.1990 for period 1991-92 to 1995-96   |
| 26           | Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval                | Last scheme of Mining approved on 16.09.2013 for the period 2012-13 to 2016-17   |

|    |   |             |
|----|---|-------------|
|    | letter, if any.                                   |             |
| 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)     | Others      |
| 30 | Captive/Non Captive                               | Non Captive |

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

#### **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  | Nil         | 2 bore holes drilled in 2014-15  |
| 1c   | Exploration Agency & Expenditure in lakh Rupees during the year    | NA   | NA          |  |
| 1d   | Balance area to be explored to bring Geological axis in 1 or 2     | Nil  | Nil         | Proposal given in present submitted modified mining plan for additional two boreholes. |
| 1e   | Balance reserves as on 01.04.2017                                  | Category 122-527185 MT   |             |  |
| 1f   | General remarks of inspecting officer on geology, exploration etc. | The deposit is almost flat deposit and two boreholes of 25 meter drilled in ML area. |             |  |

#### **Development**

| S.N. | Item  | Proposals  | Actual work                                | Remarks |
|------|---|--|--|---------|
| 2a   | Location of development w.r.t. lease area   | Centre of lease  | Broadly as per proposal                    |         |
| 2b   | Separate benches in topsoil, overburden and mineral (Rule 15)                           | Yes  | Broadly as per proposal                    |         |
| 2c   | Stripping ratio or ore to OB ratio  | Not mentioned specifically   | Quantity of waste generation is negligible |         |
| 2d   | Quantity of topsoil generation in m <sup>3</sup>  | Nil  | Nil  |         |
| 2e   | Quantity of overburden generation in m <sup>3</sup>                                     | Nil  | Nil  |         |
| 2f   | General remarks of inspecting officer on development of pit w.r.t. type of deposit etc. | The lease is already exposed and therefore waste generation is negligible. The development is equal to production. |  |         |

#### **Exploitation**

| S.N. | Item  | Proposals                  | Actual work | Remarks |
|------|---|----------------------------|-------------|---------|
| 3a   | Number of pits proposed for production                          | one                        | one         |         |
| 3b   | Quantity of ROM mineral production proposed(Tons)               | 79957                      | 70941.610   |         |
| 3c   | Recovery of salable/usable mineral from ROM production          | Not mentioned specifically | 100%        |         |
| 3d   | Quantity of mineral reject generation(Tons)                     | 3998                       | Nil         |         |
| 3e   | Grade of mineral reject generation and threshold value declared | NA                         | NA          |         |

|    |  |   |  |   |
|----|--|---|--|---|
| 3f | Quantity of sub-grade mineral generation   | Nil   | Nil  |   |
| 3g | Grade of sub-grade mineral generation  | NA  | NA   |   |
| 3h | Manual / Mechanised method adopted for segregating from ROM  | Mechanised  | Mechanised   |   |
| 3i | Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject          | NA  | NA   |   |
| 3j | Provision of drilling & blasting in mineral benches  | Yes   | Wagon drill m/c for drilling and SME/Slurry explosive for Blasting |   |
| 3k | Provision of mining machineries in mineral benches   | Yes   | Broadly as per proposal  | Hydraulic excavator of 0.9 m <sup>3</sup> capacity, Hydraulic rock breaker, |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Yes   | Broadly the benches are maintained 3-5 meter.                      |   |
| 3m | Total area covered under excavation/pits   | 2.80 ha.  | 2.9 ha.  |   |
| 3n | Ore to OB ratio for the pit/mine during the year   | Not mentioned specifically  | Quantity of waste generation is negligible                         |   |
| 3o | Total area put in use under different heads at the end of year                                       | 2.8 ha  | 2.93 ha.   |   |
| 3p | Production of ROM mineral during last five-year period, as applicable                                | 394849  | 299592   | 2012-13 to 2016-17  |
| 3q | General remarks of inspecting officer on method of mining etc.                                       | The method of mining is by semi mechanized opencast method and broadly as per proposal. |  |   |

**Solid Waste Management-Dumping**

| S.N. | Item  | Proposals  | Actual work          | Remarks |
|------|---|--|----------------------|---------|
| 4a   | Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)    | yes  | Waste generation nil |         |
| 4b   | Location of topsoil, OB & mineral reject dumps                    | No major dump proposed   | NA                   |         |
| 4c   | Number of dumps within lease area and outside lease area          | Nil  | Nil                  |         |
| 4d   | Location of dumps w.r.t. ultimate pit limit (Rule 16)             | NA   | NA                   |         |
| 4e   | Number of active & alive dumps                                    | Nil  | Nil                  |         |
| 4f   | Number of dead dumps  | Nil  | Nil                  |         |
| 4g   | Number of dumps stabilised  | Nil  | Nil                  |         |
| 4h   | Whether Retaining wall or garland drain all along dumps are there | No proposal  | NA                   |         |
| 4i   | Length of Retaining wall or garland drain all along dump          | Nil  | Nil                  |         |
| 4j   | Number of settling ponds  | Nil  | Nil                  |         |
| 4k   | Specific comments of inspecting officer on waste dump management  | The lease is already exposed and therefore waste generation is negligible. |                      |         |

**Solid Waste Management-Backfilling**

| S.N. | Item   | Proposals  | Actual work | Remarks |
|------|--|--|-------------|---------|
| 5a   | Status on part or full extraction of mineral from mined out area before starting backfilling | NA   | NA          |         |
| 5b   | Area under backfilling of mined out area   | Nil  | Nil         |         |
| 5c   | Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)      | NA   | NA          |         |
| 5d   | Total area fully reclaimed & rehabilitated   | Nil  | Nil         |         |
| 5e   | General remarks of inspecting officer on backfilling, reclamation etc                        | Small portion where working extended 7.5 meter safety barrier is backfilled otherwise no backfilling and reclamation done. |             |         |

**Progressive Mine Closure 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.  | Yes       | Yes         |         |
| 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 | NA        | NA          |         |

|    |   |  |          |  |
|----|---|--|----------|--|
|    | v) Any other specific method of rehabilitation<br>vi) Cost incurred on watch & care during the year   |  |          |  |
| 6c | Compliance on reclamation and rehabilitation by backfilling<br>i) Voids available for backfilling (L *B * 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 | i) NA                                    | i) NA    |  |
| 6d | Compliance of Rehabilitation of waste land within lease<br>i) Afforestation<br>ii) Area rehabilitated (ha)<br>iii) Method of rehabilitation   | i) 25 nos sapling proposed to be planted | i) Nil   |  |
| 6e | Compliance of Environmental monitoring (core zone & buffer zone)  | Proposal given                           | Not done |  |
| 6f | General remarks of inspecting officer on PMCP compliance & progressive closure operations   | No work done regarding PMCP              |          |  |

### **Mineral Conservation**

| S.N. | Item   | Proposals  | Actual work | Remarks |
|------|--|--|-------------|---------|
| 7a   | ROM Mineral dispatch or grade-wise sorting within lease area                         | NA   | NA          |         |
| 7b   | Method of grade-wise mineral sorting i.e. manual or mechanical                       | NA   | NA          |         |
| 7c   | Different grade of mineral sorted out at mines                                       | NA   | NA          |         |
| 7d   | Any beneficiation process at mines   | NA   | NA          |         |
| 7e   | General remarks of inspecting officer on Mineral conservation & beneficiation issues | The total ROM production is dispatch and there is no subgrade generation and no waste generation reported. |             |         |

### **Environment**

| S.N. | Item  | Proposals                  | Actual work           | Remarks |
|------|---|----------------------------|-----------------------|---------|
| 8a   | Separate removal and utilization of topsoil (Rule 32)   | NA                         | NA                    |         |
| 8b   | Concurrent use or storage of topsoil  | NA                         | NA                    |         |
| 8c   | Separate dumps for overburden, waste rock, rejects and fines (Rule 33)                                      | Reject generation proposed | Nil reject generation |         |
| 8d   | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use           | NA                         | NA                    |         |
| 8e   | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | NA                         | NA                    |         |
| 8f   | Baseline information on existence   | NA                         | NA                    |         |

|    |  |   |                                |  |
|----|--|---|--------------------------------|--|
|    | of plantation & additional plantation done (Rule 41)                               |   |                                |  |
| 8g | Survival rate  | NA  | NA                             |  |
| 8h | Water sprinkling on roads to control airborne dust                                 | Regular water sprinkling proposed   | Reported water sprinkling done |  |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | The mine is working on small scale and there is no waste generation and therefore no adverse impact observed on aesthetic beauty. |                                |  |

**Compliance of Rule 45**

| S.N. | Item  | COMMENTS   |   | Remarks                       |
|------|---|--|---|-------------------------------|
| 9a   | Status of submission of Monthly and Annual returns  | MR & AR upto date                                      |   |                               |
| 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           | Yes given  | Shri Sanjay Sopanrad Chincole, Manager, Shri Pramod Pandey, Mining Engineer | Geologist yet to be appointed |
| 9c   | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Covered under O/C working-2.52 ha.                     |   |                               |
| 9d   | Scrutiny of Annual return on afforestation  | Within ML 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                                      | Nil  |   |                               |
| 9g   | Scrutiny of Annual return on sale value, Ex. Mine price & production cost                     | Ex-mine price Rs 220.50 & cost of production 218.48 Rs |   |                               |
| 9i   | Scrutiny of Annual return on fixed assets   | Rs 2503757/-   |   |                               |
| 9k   | Scrutiny of Annual return on mining machineries   | Front end loader, Back hoe 1.2 m3, Tipper 10 ton       |   |                               |

**Details of violations observed during current inspection and compliance position of earlier violation pointed out:-** The present inspection is done to process modification in Mining plan and no serious violation found.

**(Rajesh Kumar Das, Sr.ACOM &14.07.2017)**