

## MCDR INPSECTION REPORT

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|--|---|
| Name of the inspecting officer & Designation | Mr. G.C.SETHI, Regional Controller of Mines, Chennai Region |
| Date of inspection:                          | 19.11.2024  |
| Accompanied mine official and designation    | Mr.Ravi Shankar, GM, Mr.Rajesh, Mines Manager               |

| S. No. | Particulars  | Details  |
|--------|--|--|
| 1      | Name of the Mine   | <b>Ramaiyanpatti Limestone Mine</b>                    |
| 2      | Total Lease Area (Ha) with breakup of Non-forest and forest land | Non- forest Land -31.09 Hect                           |
|        |  | Forest Land - 0.00                                     |
|        |  | Total Lease Area - 31.09 Hect                          |
| 3      | Mine code  | 38TMN15002   |
| 4      | IBM Registration Number under rule 45 of MCDR, 1988              | IBM/7025/2011  |
| 5      | Name of the lessee, Address, phone, email and fax number         | M/s Krishna Mines, 23,Sripuram, Tirunelveli - 627001   |
| 6      | Village  | Ramayanpatti   |
| 7      | Taluka/Mandal  | Tirunelveli  |
| 8      | District   | Tirunelveli  |
| 9      | Pin code   | 627358   |
| 10     | State  | Tamilnadu  |
| 11     | Post office  | Sethurayanputhur                                       |
| 12     | Nearest police station   | Manur  |
| 13     | Nearest Railway station  | Tirunelveli Junction                                   |
| 14     | Date of Grant of Mining Lease                                    | G.O.M.S.No 2557/Industries Department dated 10.05.1962 |
| 15     | Date of Execution  | 28.01.1963   |
| 16     | Date of opening of Mine  | 29.01.1963   |

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| 17 | Date of first Renewal, if applicable and its period & expiry   | G.O.Ms No.1081/Industries Department Dated 02.09.1983 and Lr.No 155/D3/86-15 Industries Department, Dated 09.08.1988   |
| 18 | Date of second Renewal, if applicable and its period & expiry  | The supplementary lease deed was executed on 01.12.2021.   |
| 19 | Date of submission of renewal application if Mining Operations are continuing under deemed extension                             | Not Applicable   |
| 20 | Name of the Nominated Owner with Address, phone, email, fax number and date of appointment                                       | Mr. Vinayak Shankar,<br>Partnership deed holder, M/s. Krishna Mines<br>23, sripuram,<br>Tirunelveli.<br>Phone: 0462-2333200, Mobile : 09443255705<br>Email : admin@krishnamines.com  |
| 21 | Name of the Mine Agent with Address, phone, email, fax number and date of appointment  | Mr.P.Rajesh, Mines Agent<br>M/s. Krishna Mines 23, sripuram, Tirunelveli   |
| 22 | Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines                                | Mr.P.Rajesh, Mines Manager<br>M/s. Krishna Mines 23, sripuram, Tirunelveli.  |
|    | Name of the Mining Engineer with Address, phone, email, fax number and date of appointment in mines                              | Mr.R.Jesuraj Prabhakaran, B.E., Mining<br>M/s. Krishna Mines 23, sripuram, Tirunelveli.  |
| 23 | Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine | Mr.C.Thangaraj, Msc (Geology)<br>M/s. Krishna Mines 23, sripuram, Tirunelveli.   |
| 24 | Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.    | Letter No. TN/TNL/ROMP/LST-1440-MDS dated 8.11.2017 for the years 2018-2019 & 2019-20. Subsequently ROMP for remaining 3 years ie 2020-21 to 2022-23 was approved Letter No. TN/TNL/LST/ROMP-1588-MDS dated 17.03.2020. The Modified ROMP was done for the year of 2020-21 to 2022-23 Letter No.TN/TNL/LST/MMP-2085.MDS dated 02.02.2022 |
| 25 | Mineral(s) granted in lease and proved for mining  | Lease Period Valid upto 31st March 2030.   |
| 26 | Method of Mining (Opencast, Underground)   | Open cast  |
| 27 | Category (Fully Mechanised, Other than fully mechanised or Manual)   | Fully Mechanised   |
| 28 | Captive/Non Captive  | Captive  |

**SCIENTIFIC MINING**

| Sl. No                  | Item  | Proposals  | Actual Work  | Remarks  |
|-------------------------|---|--|--|--|
| <b>A. EXPLORATION:-</b> |   |  |  |  |
| 1a                      | Backlog of Previous Year  | No Proposal  | Nil  | Nil  |
| 1b                      | Exploration Over Lease area for Geological Axis 1 or 2              | Geological axis - 1.   | Geological axis - 1  | Entire lease area is under G-1 category.   |
| 1c                      | Exploration Agencies and Expenditure in lakh rupees during the year | No Proposal  | Nil  | Nil  |
| 1d                      | Balance area to be explored to bring Geological axis 1 or 2         | No Proposal  | Nil  | Entire area has been explored under G-1 category with 200m X 200m grid interval. |
| 1e                      | Balance reserves as on 01/04/2023                                   | 8.94 million tons as per the RoMP approved on 02.12.2022 for the proposed period from 2023-24 to 2027-28 | 419579 tons of production during 2023-24.  | Cement Grade Limestone.  |
| 1f                      | General remarks of inspecting officer on geology, exploration etc.  | It is belongs to Archaean age.   | 10 boreholes has been drilled during 2022- 23. Entire area has been explored up to G1 level. | Entire ML area has been drilled and proved upto 115m                             |

| Sl. No                  | Item  | Proposals   | Actual Work   | Remarks  |
|-------------------------|---|---|---|--|
| <b>B. DEVELOPMENT:-</b> |   |   |   |  |
| 2a                      | Location of development w.r.t. lease area           | Working proposed between the Section lines BB' to EE' during 2023-24. | Development is carried out as per proposal. Worked between the Section lines BB' to EE' during 2023-24. | Nil  |
| 2b                      | Separate benches in topsoil, overburden and mineral | Separate benches have been proposed.                                  | Four bench in OB & eight benches in Ore.  | Nil  |
| 2c                      | Stripping ratio or ore to OB ratio                  | 1 : 1.03  | 1 : 0.6   | The deviation is due to lesser development during 2023-24. |
| 2d                      | Quantity of topsoil generation in m3                | No Proposal   | Nil   | Nil  |
| 2e                      | Quantity of overburden generation in m3             | 176427m3 of OB has been proposed                                      | 113081 m3 of OB has been achieved.  | Nil  |

|    |   |     |     |     |
|----|---|-----|-----|-----|
| 2f | General remarks of inspecting officer on development of pit w.r.t. type of deposit etc. | Nil | Nil | Nil |
|----|---|-----|-----|-----|

| Sl. No                   | Item  | Proposals  | Actual Work                               | Remarks        |
|--------------------------|---|--|---|----------------|
| <b>C. EXPLOITATION:-</b> |   |  |   |                |
| 3a                       | Number of Pit Proposed for Production   | Single Pit                                       | Single Pit                                | Nil            |
| 3b                       | Quantity of ROM mineral production proposed   | 454930 tons                                      | 419579 tons                               | Nil            |
| 3c                       | Recovery of Sailable/ Usable Mineral from ROM Production  | 454930 tons                                      | 419579 tons                               | Nil            |
| 3d                       | Quantity of mineral reject generation   | No Proposal                                      | Nil                                       | Not Applicable |
| 3e                       | Grade of mineral reject generation and threshold value declared                                       | Less than CaCo3 = 34%                            | Less than CaCo3 = 34%                     | Nil            |
| 3f                       | Quantity of sub-grade mineral generation  | No Proposal                                      | Not generated                             | Not Applicable |
| 3g                       | Grade of sub-grade mineral generation   | No Proposal                                      | Nil                                       | Not Applicable |
| 3h                       | Manual / Mechanised method adopted for segregating from ROM   | Mechanised method                                | Mechanised method                         | Nil            |
| 3i                       | Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject           | Not applicable                                   | No beneficiation is carried out           | Not Applicable |
| 3j                       | Provision of drilling & blasting in mineral benches   | Drilling & Blasting are proposed.                | Drilling & Blasting being done            | Nil            |
| 3k                       | Provision of mining machineries in mineral benches  | Excavator, Backhoe, Tippers, Rock Breakers Dozer | As proposed the machineries are deployed. | Nil            |
| 3l                       | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/ SOM | Bench height -10m and width 12 m                 | Bench height -10m and width 12 m          | Nil            |

|    |   |   |   |  |
|----|---|---|---|--|
| 3m | Total area covered under excavation/pits                              | 23.354 ha   | 23.354 ha   | Due to working in same area with vertical extension.     |
| 3n | Ore to OB ratio for the pit/ mine during the year                     | 1 : 1.03  | 1 : 0.6   | The deviation is due to lesser development.              |
| 3o | Total area put in use under different heads at the end of year        | Land use Pattern as on 01.04.2023.<br>Mines = 23.354 hect<br>Dump = 3.393 hect  | Land use Pattern as on 01.04.2023.<br>Mines = 23.354 hect<br>Dump = 3.393 hect                                      | Nil  |
| 3p | Production of ROM mineral during last five-year period, as applicable | 2023-2024 = 454930 tons<br>2022-2023 = 535300 tons<br>2021-2022 = 207625 tons<br>2020-2021 = 443376 tons<br>2019-2020 = 449162 tons | 2023-2024 = 419579 tons<br>2022-2023 = 378631 tons<br>2021-2022 = 211274 tons<br>2020-2021 = Nil<br>2019-2020 = Nil | Less limestone production due to less plant requirement. |
| 3q | General remarks of inspecting officer on method of mining etc.        | Nil   | Mining operation is being done by opencast mechanised means.  | Nil  |

| Sl. No                                       | Item  | Proposals                           | Actual Work                         | Remarks |
|--|---|-------------------------------------|-------------------------------------|---------|
| <b>D. SOLID WASTE MANAGEMENT - DUMPING:-</b> |   |                                     |                                     |         |
| 4a   | Separate Dumping of Topsoil, OB and Mineral Rejects           | Dump proposed for OB                | Dumping done as per proposal        | Nil     |
| 4b   | Location of Topsoil, OB and Mineral Rejects Dumps             | N-973575-973840/<br>E-793710-794445 | N-973575-973840/<br>E-793710-794445 | Nil     |
| 4c   | Number of Dumps within Lease & Outside Lease area             | Lease area = 3                      | Lease area = 3                      | Nil     |
| 4d   | Location of Dumps, within Ultimate Pit Limit (Rule-16)        | Outside UPL                         | Outside UPL                         | Nil     |
| 4e   | Number of Active & Alive Dumps                                | No Proposal                         | Nil                                 | Nil     |
| 4f   | No of Dead Dumps  | No Proposal                         | Nil                                 | Nil     |
| 4g   | No of Dumps Established                                       | No Proposal                         | Nil                                 | Nil     |
| 4h   | Whether Retaining Wall or Garland drain along Dumps are there | No Proposal                         | Nil                                 | Nil     |
| 4i   | Length of Retaining   | No Proposal                         | Nil                                 |         |

|    |  |             |  |     |
|----|--|-------------|--|-----|
|    | Wall or Garland drain along Dumps                                |             |  | Nil |
| 4j | No of Settling tanks   | No Proposal | Nil  | Nil |
| 4k | Specific comments of inspecting officer on waste dump management | Nil         | Existing old dumps are present for Topsoil, OB & Mineral Rejects | Nil |

| Sl. No   | Item   | Proposals                         | Actual Work      | Remarks |
|--|--|-----------------------------------|------------------|---------|
| <b>E. SOLID WASTE MANAGEMENT - BACKFILLING:-</b> |  |                                   |                  |         |
| 5a   | Status of part or full extraction of mineral from mined out area before starting backfilling | No Backfilling has been proposed. | No backfill done | Nil     |
| 5b   | Area under backfilling of mined out area   | No Proposal                       | Nil              | Nil     |
| 5c   | Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)      | No Proposal                       | Nil              | Nil     |
| 5d   | Total area fully reclaimed and rehabilitated   | No Proposal                       | Nil              | Nil     |
| 5e   | General remarks of inspecting officer on backfilling, reclamation etc                        | Nil                               | No backfill done | Nil     |

| Sl. No                                    | Item  | Proposals  | Actual Work   | Remarks   |
|---|---|--|---|---|
| <b>F. PROGRESSIVE MINE CLOSURE PLAN:-</b> |   |  |   |   |
| 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  | Submitted   | PMCP report for the year 2022-23 has been submitted |
| 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 | i) Nil<br>ii) 0.13 ha<br>iii) 130 nos<br>iv) 2630 nos for 2021-22 to 2023-24<br>v) Afforestation<br>vi) 1.50 lakhs | i) Nil<br>ii) 0.30 ha<br>iii) 300 nos<br>iv) 1675 nos from 2021-22 to 2023-24<br>v) Afforestation<br>vi) 1.50 lakhs | Nil   |

|    |   |  |  |   |
|----|---|--|--|---|
|    | vi) Cost incurred on watch & care during the year   |  |  |   |
| 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 | i) No Proposal<br>ii) No Proposal<br>iii) No Proposal<br>iv) No Proposal<br>v) No Proposal | i) Nil<br>ii) Nil<br>iii) Nil<br>iv) Nil<br>v) Nil | Nil   |
| 6d | Compliance of Rehabilitation of waste land within lease<br>i) Afforestation<br>ii) Area rehabilitated (ha)<br>iii) Method of rehabilitation   | i) No Proposal<br>ii) No Proposal.<br>iii) No Proposal                                     | i) Nil<br>ii) Nil<br>iii) Nil                      | Nil   |
| 6e | Compliance of Environmental monitoring (core zone & buffer zone)  | Yes  | Periodical monitoring.                             | Environmental parameters are within limits. |
| 6f | General remarks of inspecting officer on PMCP compliance & progressive closure operations   | Nil  | PMCP proposals have been complied.                 | Nil   |

| Sl. No                           | Item   | Proposals              | Actual Work                           | Remarks        |
|----------------------------------|--|------------------------|---------------------------------------|----------------|
| <b>G. MINERAL CONSERVATION:-</b> |  |                        |                                       |                |
| 7a                               | ROM mineral dispatch or grade wise sorting within lease area   | 454930 tons            | 419579 tons                           | Nil            |
| 7b                               | Method of Grade-wise mineral sorting i.e. manual or mechanical | Mechanised method      | Mechanised method                     | Nil            |
| 7c                               | Different grade of mineral sorted out at mines                 | Cement grade Limestone | Cement grade Limestone                | Nil            |
| 7d                               | Any beneficiation process at mines                             | No Proposal            | No processing of mineral is involved. | Not applicable |

|    |  |     |   |     |
|----|--|-----|---|-----|
| 7e | General remarks of inspecting officer on Mineral conservation & beneficiation issues | Nil | Achieved ROM Production is 419579 tons during 2023- 2024 against proposal of 454930 tons. | Nil |
|----|--|-----|---|-----|

| Sl. No                  | Item  | Proposals                         | Actual Work   | Remarks |
|-------------------------|---|-----------------------------------|---|---------|
| <b>H. ENVIRONMENT:-</b> |   |                                   |   |         |
| 8a                      | Separate removal and utilization of topsoil   | No Proposal                       | No Topsoil generation   | Nil     |
| 8b                      | Concurrent use or storage of topsoil  | No Proposal                       | No Topsoil generation   | Nil     |
| 8c                      | Separate dumps for overburden, waste rock, rejects and fines  | Dump proposed for OB              | Dumping done as per proposal                                      | Nil     |
| 8d                      | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use           | Dump proposed for OB              | Dumping done as per proposal                                      | Nil     |
| 8e                      | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | No Backfilling has been proposed. | No backfill done  | Nil     |
| 8f                      | Baseline information on existence of plantation & additional plantation done                                | 130 saplings proposed.            | 300 saplings planted.   | Nil     |
| 8g                      | Survival rate   | No Such proposal in document      | 85%   | Nil     |
| 8h                      | Water sprinkling on roads to control airborne dust  | Water Sprinkling                  | Water Sprinkling is being done on roads to control airborne dust. | Nil     |
| 8i                      | General remarks of inspecting officer on aesthetic beauty in and around mines area                          | Nil                               | Plantation in systematic practice.                                | Nil     |

| Sl. No                            | Item                    | Comments  | Remarks               |
|-----------------------------------|-------------------------|-----------|-----------------------|
| <b>I. COMPLIANCE OF RULE-45:-</b> |                         |           |                       |
| 9a                                | Status of Submission of | Submitted | Returns are submitted |

|               |   |  |  |   |
|---------------|---|--|--|---|
|               | Monthly & Annual Returns  |  | within time limit.   | Both Annual & Monthly returns are submitted in online.        |
| <b>Sl. No</b> | <b>Item</b>   | <b>Details Given in A.R</b>  | <b>Observation of I/Officer</b>  | <b>Remarks</b>  |
| 9b            | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager           | Full time Mining Engineer & Mining Geologist has shown                                 | During inspection Mining Engineer & Geologist are present.                     | Nil   |
| 9c            | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Land use Pattern as on 01.04.2024.<br>Mines = 23.35 hect<br>Dump = 3.64 hect           | Landuse Pattern is filled as per approved Mining Plan                          | Nil   |
| 9d            | Scrutiny of Annual return on afforestation  | Lessee has planted 300 saplings during 2023-2024.                                      | Plantation has been done on virgin area.                                       | Cumulatively 14300 saplings have been planted upto 2023-2024. |
| 9e            | Scrutiny of Annual return on mineral reject generation (Grade & quantity)                     | There is no Mineral Rejects Generation   | There is no Mineral Rejects Generation   | Nil   |
| 9f            | Scrutiny of Annual return on ROM stock and/or graded ore                                      | Limestone stock as on 01.04.2024<br>ROM opening stock = Nil<br>ROM closing stock = Nil | Mine has produced 419579 tons of ROM and same has dispatches during 2023-2024. | It is captive mine of M/s. Krishna Mines.                     |
| 9g            | Scrutiny of Annual return on sale value, Ex. Mine price & production cost                     | Cost of Production & Ex. Mine price has shown  | It is captive mine of M/s. Krishna Mines.                                      | Nil   |
| 9h            | Scrutiny of Annual return on fixed assets   | Fixed Assets is given  | Fixed asset is given for individual mine.                                      | Nil   |
| 9k            | Scrutiny of Annual return on mining machineries   | Machineries details given  | As available in field  | Nil   |

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

There is no Violation pointed out.

**G.C.Sethi**  
**Regional Controller of Mines**