

MCDR INSPECTION REPORT

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| Name of the inspecting officer designation | Arun Vivek V Indian Bureau of Mines, Chennai |
| Date of inspection: | 05/10/2024 |
| Accompanied mine official and designation | M.R.Raja Ranjith Singh – General Manager |
| Mine file No. | TN/TCR/LST-93.MDS |

General

| S.N. | Particulars | Details |
|-------------|--|---|
| 1 | Name of the Mine | Kallakudi and Kovandakurichi Limestone Mines |
| 2 | Total Lease Area (Ha) with breakup of Non-forest and forest land | 13.295 Ha |
| 3 | Mine code | 38TMN14074 |
| 4 | IBM Registration Number under rule 45 of MCDR, 1988 | IBM/929/2011 |
| 5 | Name of the lessee, Address, phone, email and fax number | Dalmia Cement (Bharat) Limited, Dalmiapuram. Lalgudi Taluk. Tiruchirapalli District. Tamil Nadu. Telephone No. : 04329 – 235459. |
| 6 | Village | Kallakudi & Kovandakurichi |
| 7 | Taluka/Mandal | Lalgudi |
| 8 | District | Trichy |
| 9 | Pin code | 621 651 |
| 10 | State | Tamil Nadu |
| 11 | Post office | Kallakudi |
| 12 | Nearest police station | Kallakudi |
| 13 | Nearest Railway station | Kallakudi Palanganatham |
| 14 | Date of Grant of Mining Lease | G.O Ms No. 649 (ILC) dated 12.02.1955 |
| 15 | Date of Execution | 25.03.1976 |
| 16 | Date of opening of Mine | 12.11.1955 |

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|----|--|---|
| 17 | Date of first Renewal, if applicable and its period & expiry | G.O.Ms.No:1158 (IND) date:27.09.1975 Expiry : 26.09.1995 |
| 18 | Date of second Renewal, if applicable and its period & expiry | Application submitted on 2 nd Renewal- 11.07.1994 3 rd Renewal -26.05.2014 |
| 19 | Date of submission of renewal application if Mining Operations are continuing under deemed extension | As per the recent MMDR Amendment Act 2015, the validity of the mining lease is deemed to be extended upto 31.03.2030. Extension of Lease upto 31.03.2030 granted vide GO.Ms.No 71 dated 20.07.2018 |
| 20 | Name of the Nominated Owner with Address, phone, email, fax number and date of appointment | Mr. T. Venkatesan, Nominated Owner, Dalmia Cement (Bharat) Limited Fagun Mansion, 4 th floor, 26, C in C Road, Chennai – 600 105. 044 – 28279933, FAX - 044 – 28276508, t.venkatesan@dalmiacement.com Date of appointment: 01.11.2007 |
| 21 | Name of the Mine Agent with Address, phone, email, fax number and date of appointment | Name: K.Vinayagamurthi Executive Director Mob: 9750963784 Email: k.vinayagamurthi@dalmiacement.com Date of Appointment – 06.01.2023 |
| 22 | Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines | M.R.Raja Ranjith Singh Dalmia Cement (Bharat) Limited, Dalmiapuram, 04329 – 235099, mr.rajaranjithsingh@dalmiacement.com Fax 04329-235111 Date of appointment :11.03.2013 |
| 23 | Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine | J.VijayaKumar Qualification:: BE Mining Experience: 16 Years Dalmia Cement (Bharat) Limited, Dalmiapuram, 04329 – 235099, j.vijayakumar@dalmiacement.com Fax 04329-235111 Date of appointment :01.02.2022 |
| 24 | Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44. | Yes S.Selvakumar Qualification: M Sc (Applied Geology) Date of appointment :01.02.2022 & J.VijayaKumar Qualification:: BE Mining |

| | | |
|----|---|--|
| | | Date of appointment :01.02.2022 |
| 25 | Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any. | TN/TCR/MP/LST-1482/SZ DATED 23.07.2003 2023 – 2008 TN/TCR/MP/LST-1482/SZ Dated 06.02.2004 2003 – 2008 |
| 26 | Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any. | TN/TCR/LST/MS-464-SZ dated: 18.03.2008, 2008 – 2013 TN/TCR/LST/MS-796-SZ dated: 08.07.2013, 2013 – 2015 TN/TCR/MP/LST-1953-MDS dated: 08.07.2015, 2015 – 2020 TN/TCR/LST/MP-2041.MDS dated: 02.04.2018, 2018 - 2020 TN/TCR/LST/ROMP-1578.MDS dated11.12.2019, 2020 - 2025 |
| 27 | Mineral(s) granted in lease and proved for mining | LIMESTONE & MARL |
| 28 | Method of Mining(Open cast,Underground) | Open cast Mining |
| 29 | Category (Fully Mechanised, Others or Manual) | Fully Mechanized |
| 30 | Captive/Non Captive | 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 (2023-2024)

| S.N. | Item | Proposals | Actual work | Remarks |
|------|---|------------------------------|---------------------------|---|
| 1a | Backlog of previous year | Nil | Nil | Lessee area fully explored under G1 level |
| 1b | Exploration over lease area for Geological axis 1 or 2. | Nil | Nil | Lessee area fully explored under G1 level |
| 1c | Exploration Agency & Expenditure in lakh Rupees during the year | NA | Nil | Nil |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | NA | Nil | Nil |
| 1e | Balance reserves as on 01.04.2023 (111+121 Category) | Category | Limestone Reserves | Marl Reserves |
| | | Proved Mineral Reserve (111) | 1262069 | 1643197 |

| | | | | |
|----|---|-------------------------------------|----------------|----------------|
| | | Pre-Fesible Mineral Resources (221) | 7361909 | 1068758 |
| | | Total | 8623978 | 2711955 |
| 1f | General comments of inspecting officer on geology, exploration etc. | Nil | Nil | Nil |

Development (2023-2024)

| S.N. | Item | Proposals | Actual work | Remarks |
|------|---|---|--|--|
| 2a | Location of development w.r.t. lease area | The deposit area is devoid of any overburden and limestone is exposed all over the area. The working faces of existing benches shall advance further towards lateral as well as vertical direction to exploit the limestone at its optimal. | As per the proposal mining activities are carried out. | Nil |
| 2b | Separate benches in topsoil, overburden and mineral (Rule 15) | NA | NA | Overburden does not occur. |
| 2c | Stripping ratio or ore to OB ratio | NA | NA | Nil |
| 2d | Quantity of topsoil generation in m ³ | NA | NA | Nil |
| 2e | Quantity of overburden generation in m ³ | NA | NA | Nil |
| 2f | General remarks of inspecting officer on development of pit w.r.t. type of deposit etc. | Proposal was adequate | Proposal is being followed | Development of pit is found satisfactory |

Exploitation(2023-2024)

| S.N. | Item | Proposals | Actual work | Remarks |
|------|--|-----------|-----------------|---------|
| 3a | Number of pits proposed for production | 2 pits | 2 pits operated | Nil |

| | | | | |
|----|---|---|--|---|
| 3b | Quantity of ROM mineral production proposed | In the plan period it is planned to produce 748440 tonnes of Limestone and Marl LST-717754 MARL-30686 | Production for the plan period is 741500 tonnes of Limestone | <i>Violation letter issued</i> |
| 3c | Recovery of salable/usable mineral from ROM production | ROM is suitable for cement grade. | ROM is well utilized and managed by blending the limestone from other own captive mines. | Nil |
| 3d | Quantity of mineral reject generation | No Mineral Reject was Proposed | No Mineral Reject done | As per Approved Review of Mining Plan |
| 3e | Grade of mineral reject generation and threshold value declared | NA | NA | Nil |
| 3f | Quantity of sub-grade mineral generation | No subgrade mineral was Proposed | No subgrade mineral was done | As per Approved Review of Mining Plan |
| 3g | Grade of sub-grade mineral generation | NA | NA | Nil |
| 3h | Manual / Mechanised method adopted for segregating from ROM | NA | NA | Nil |
| 3i | Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject | NA | NA | Nil |
| 3j | Provision of drilling & blasting in mineral benches | Adopting Non-Conventional Method. No Drilling & Blasting | Adopting Non-Conventional Method. No Drilling & Blasting | Adopting Non-Conventional Method using mega rock breakers & Surface Miner |
| 3k | Provision of mining machineries in mineral benches | <ol style="list-style-type: none"> 1) L&T CK 300 Model Hydraulic Excavator Bucket capacity 2.7. Cu.m – 2 Nos 2) Atlas Copco Breaker HB 5800- 2 Nos 3) L&T PC 200 Model Hydraulic Excavator Bucket capacity 0.9. Cu.m – 1 Nos | Machinery as proposed is deployed for mining operation | Nil |

| | | <p>4) Kobelco SK380 Model Hydraulic Excavator Bucket capacity 2.1. Cu.m – 1 Nos</p> <p>5) Komatsu D50 – 1 No</p> <p>6) KSB Centripugal Pump 50 HP – 1 Nos</p> <p>7) Contractor' Trucks Tat Benz (Each 180 HP) – 11 Nos</p> | | | | | | | | | | | | | | | | | | | | |
|---------|--|---|--|--|---------|---------|--------|--------|---------|--------|--------|---------|--------|--------|---------|--------|--------|---------|--------|--------|--|--|
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | The height of the benches is proposed to maintain at height of 9 meters | As proposed the height of the bench is maintained | Nil | | | | | | | | | | | | | | | | | | |
| 3m | Total area covered under excavation/pits | 11.04 Ha | 11.04 ha | As per the proposal | | | | | | | | | | | | | | | | | | |
| 3n | Ore to OB ratio for the pit/mine during the year | NA | NA | Overburden does not exist. | | | | | | | | | | | | | | | | | | |
| 3o | Total area put in use under different heads at the end of year | Area under Mining - 11.04 Ha Roads - 0.382 Ha Others(Afforestations & Safety barrier) - 1.873 Ha | Area under Mining - 11.04 Ha Roads - 0.382 Ha Others(Afforestations & Safety barrier) - 1.873 Ha | As per the proposal | | | | | | | | | | | | | | | | | | |
| 3p | Production of ROM mineral during last five-year period, as applicable | <table border="1"> <thead> <tr> <th>Year</th> <th>Proposed</th> <th>Actuals</th> </tr> </thead> <tbody> <tr> <td>2019-20</td> <td>749831</td> <td>738000</td> </tr> <tr> <td>2020-21</td> <td>749389</td> <td>533200</td> </tr> <tr> <td>2021-22</td> <td>749665</td> <td>662300</td> </tr> <tr> <td>2022-23</td> <td>749980</td> <td>746800</td> </tr> <tr> <td>2023-24</td> <td>748935</td> <td>741500</td> </tr> </tbody> </table> | Year | Proposed | Actuals | 2019-20 | 749831 | 738000 | 2020-21 | 749389 | 533200 | 2021-22 | 749665 | 662300 | 2022-23 | 749980 | 746800 | 2023-24 | 748935 | 741500 | | |
| Year | Proposed | Actuals | | | | | | | | | | | | | | | | | | | | |
| 2019-20 | 749831 | 738000 | | | | | | | | | | | | | | | | | | | | |
| 2020-21 | 749389 | 533200 | | | | | | | | | | | | | | | | | | | | |
| 2021-22 | 749665 | 662300 | | | | | | | | | | | | | | | | | | | | |
| 2022-23 | 749980 | 746800 | | | | | | | | | | | | | | | | | | | | |
| 2023-24 | 748935 | 741500 | | | | | | | | | | | | | | | | | | | | |
| 3q | General Remarks of inspecting officer on method of mining etc. | Nil | Nil | method of mining is found to be satisfactory | | | | | | | | | | | | | | | | | | |

Solid Waste Management-Dumping (2023-2024)

| S.N. | Item | Proposals | Actual work | Remark |
|------|---|---|---|-------------------|
| 4a | Separate dumping of topsoil, OB & mineral reject (Rule 32, 33) | NA | NA | No OB or Top soil |
| 4b | Location of topsoil, OB & mineral reject dumps | NA | NA | No OB or Top soil |
| 4c | Number of dumps within lease area and outside lease area | NIL | NIL | No OB or Top soil |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | NA | NA | No OB or Top soil |
| 4e | Number of active & alive dumps | No alive dump available | No alive dump available | No OB or Top soil |
| 4f | Number of dead dumps | No dead dump available | No dead dump available | No OB or Top soil |
| 4g | Number of dumps stabilised | No dump available | No dump available | Nil |
| 4h | Whether Retaining wall or garland drain all along dumps are there | No Proposal | Nil | Nil |
| 4i | Length of Retaining wall or garland drain all along dump | No Proposal | Nil | Nil |
| 4j | Number of settling ponds | pumped to the artificial pond for the benefit of villagers for their domestic purposes. | pumped to the artificial pond for the benefit of villagers for their domestic purposes. | Nil |
| 4k | Specific comments of inspecting officer on waste dump management | Nil | Nil | Nil |

Solid Waste Management – Backfilling(2023-2024)

| S.N. | Item | Proposals | Actual work | Remark |
|------|--|-----------|-------------|------------------------------|
| 5a | Status on part or full extraction of mineral from mined out area before starting backfilling | NA | NA | Not at the stage |
| 5b | Area under backfilling of mined out area | NA | NA | No proposal for back filling |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32) | NA | NA | No topsoil Occurance |
| 5d | Total area fully reclaimed & | NA | NA | No topsoil |

| | | | | |
|----|---|-----|-----|-----------------|
| | rehabilitated | | | Occurance |
| 5e | General Remarks of inspecting officer on backfilling, reclamation etc | Nil | Nil | No back filling |

Progressive Mine Closure Plan(2023-2024)

| S.N. | Item | Proposals | Actual work | |
|-------------|---|---------------------------------------|---------------------------------|--|
| 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 | Submitted the PMCP for the year 2023 -24 submitted |
| 6b | i) Area available for rehabilitation (ha) | Nil | Nil | Mining is in progress |
| 6c | Afforestation done (ha) | 0.15 Ha was proposed for Year 2023-24 | 0.15 Ha planted in year 2023-24 | Plantation done outside lease area also. |
| 6d | No. of saplings planted during the year | 150 saplings | 150 saplings planted | Survival rate is 90% |
| 6e | Cumulative no. of plants | | 4549 saplings planted till date | |
| 6f | Any other specific method of rehabilitation | NIL | NIL | NA |
| 6g | Cost incurred on watch & care during the year | Nil | Nil | Nil |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) void availability for backfilling(LXBXD) | No backfilling proposed | No Backfilling done | Mining is in progress in the lease area. No area is completely mined out for reclamation |
| 6I | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filling bywaste /Tailing | Nil | Nil | Nil |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on the backfilled area | NA | NA | Nil |
| 6k | Compliance on reclamation and rehabilitation by backfilling iv) Rehabilitation by making water reservoir . | Mining is in progress | Mining is in progress | Nil |

| | | | | |
|----|--|---------------------------------|--|------------------------------------|
| 6l | Compliance on reclamation and rehabilitation by backfilling v) Any other specific means | NIL | NIL | Nil |
| 6m | Compliance of Rehabilitation of waste land within lease i) Afforestation | NIL | NIL | No waste land is within lease area |
| 6n | Compliance of Rehabilitation of waste land within lease ii) Area rehabilitated (ha) | NA | NA | No waste land is within lease area |
| 6o | Compliance of Rehabilitation of waste land within lease iii) Method of rehabilitation | NA | NA | No waste land is within lease area |
| 6p | Compliance of Environmental monitoring (core zone & buffer zone) | To be carried out every Quarter | M/s. Interstellar Testing Lab, Chennai is engaged for monitoring Environmental data on every fortnight & Quarterly basis | Nil |
| 6q | General remarks of inspecting officer on PMCP compliance & progressive closure operations | Nil | PMCP measures found satisfactory | Nil |

Mineral Conservation (2023-2024)

| S.N. | Item | Proposals | Actual work | Remarks |
|------|--|---------------------------------------|---------------------------------------|-----------------------|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | NA | NA | The total ROM is used |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical | NA | NA | The total ROM is used |
| 7c | Different grade of mineral sorted out at mines | Limestone & Marl are proposed to used | Limestone & Marl are proposed to used | The total ROM is used |
| 7d | Any beneficiation process at mines | NA | NA | The total ROM is used |
| 7e | General Remarks of inspecting officer on | Nil | Conservation | The total |

| | | | | |
|--|---|--|------------------------|-------------|
| | Mineral conservation & beneficiation issues | | was found satisfactory | ROM is used |
|--|---|--|------------------------|-------------|

Environment (2023-2024)

| S.N. | Item | Proposals | Actual work | Remarks |
|------|---|---|---|---|
| 8a | Separate removal and utilization of topsoil (Rule 32) | Nil | Nil | No top soil |
| 8b | Concurrent use or storage of topsoil | NA | NA | No top soil |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | NA | NA | No generation of Top soil and wast |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | NA | NA | No generation of Top soil and wast |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | Nil | Nil | No generation of Top soil and wast |
| 8f | Baseline information on existence of plantation & additional plantation done (Rule 41) | It is planned to plant 150saplings for the current year 2023-24 | 150 saplings planted for the current year 2023-24 | |
| 8g | Survival rate | 90% | 90% | Nil |
| 8h | Water sprinkling on roads to control airborne dust | Using water tanker | 12KL water tanker is used for water sprinkling | Found water tanker is used for water sprinkling |
| 8i | General Remarks of inspecting officer on aesthetic beauty in and around mines area | Nil | Nil | Nil |

Compliance of Rule 45 (2023-2024)

| S.No | Item | Proposals | Actual | Remarks |
|------|---|--|---|---------------------------------------|
| 9a | Status of submission of Monthly and Annual returns | Yes | Submitted Form – G1 (2023-24) on 28.06.2024 Form – F1 (Sep 24) on 08.10.2024 | Submitted in time |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | Information furnished | The information was found representative. Name of the mining engineer and geologist: J.Vijayakumar & S.Selvakumar | Found as per the record submit to IBM |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Lease Area Utilization at the end of FY23-24 Already Exploited & (i) Abandoned by Opencast Workings - 0 ha (ii) Covered under current Workings - 11.040 ha (iii) Used for Waste Disposal - 0 ha (v) Occupied by plant, buildings, residential, welfare buildings & Roads – 0.382 ha (vi) Other Purpose (Green belt, Road, area, non Mineral Bearing Land for future dumps, Afforestation, Infrastructure) – | Lease Area Utilization at the end of FY23-24 Already Exploited & (i) Abandoned by Opencast Workings - 0 ha (ii) Covered under current Workings - 11.040 ha (iii) Used for Waste Disposal - 0 ha (v) Occupied by plant, buildings, residential, welfare buildings & Roads – 0.382 ha (vi) Other | |

| | | | | |
|----|---|--|---|---|
| | | 1.873 ha | Purpose (Green belt, Road, area, non Mineral Bearing Land for future dumps, Afforestation, Infrastructure) – 1.873 ha | |
| 9d | Scrutiny of Annual return on afforestation | No.of Trees planted within the Lease Area during FY 23 - 24 150 Survival Rate - 85% | No.of Trees planted within the Lease Area during FY 23 - 24 150 Survival Rate - 85% | |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade & quantity) | Mineral Reject Generated - 0 tons | Mineral Reject Generated - 0 tons | |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | (a) Opencast Working - Production - 748440 MT (Limestone & marl) (b) Under ground Working - Production - Nil (c)Dump Working- Production - Nil | (a) Opencast Working - Production - 741500 MT (b) Under ground Working - Production - Nil (c)Dump Working- Production - Nil | |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price & production cost | Ex.Mine Price – Rs.332.24 Cost of production - Rs. 332.24 | Ex.Mine Price - Rs.332.24 Cost of production - Rs. 332.24 | |
| 9h | Scrutiny of Annual return on fixed assets | Fixed Assets Rs.254145669 | YES | Fixed Assets including five leases. (GO No: 76, 71, 143, 262 & 263) |
| 9i | Scrutiny of Annual return on mining machineries | mining machineries Loader – 5 nos Tipper – 11 nos Dozer - 1 nos | mining machineries Loader – 5 nos Tipper – 11 nos Dozer - 1 nos | |

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

| Violation observed | | | Show cause position | | |
|---|------------|---------------|---------------------|-----------|---------------|
| Rule | Issued on | Compliance on | Rule | Issued on | Compliance on |
| 11(1) | 28/10/2024 | | | | |
| <p>Arun Vivek V Junior Mining Geologist IBM Chennai 02/01/2025</p> <p>(Name of inspecting officer with designation and date)</p> | | | | | |