

INSPECTION DATASHEET**General**

| S.N. | Particulars | Details |
|------|--|--|
| 1 | Name of the Mine | Jamunanagar Limestone Mines |
| | Date of Inspection: | 27.12.2022 |
| | Name of Inspecting Officer | Shri Sandeep Kumar Singh |
| 2 | Total Lease Area (Ha) with breakup of Non-forest and forest land | Total Lease Area-35 Ha Non-Forest Area-35 Ha and Forest Area-Nil. |
| 3 | Mine code | 38ASM08002 |
| 4 | IBM Registration Number under rule 45 of MCDR,1988 | IBM/7090/2011 |
| 5 | Name of the Lease, Address, Phone, email and fax number | M/s Vinay Cement Limited (Subsidiary of Dalmia Cement Bharat Ltd), Vill: Jamunanagar, P.O. Umrangso, Dist-Dima Hasao, Assam-788931. (03670)291705/8811028649 dhananjaya.vemula@dalmiacement.com |
| 6 | Village | Jamunanagar |
| 7 | Taluka/Mandal | Umrangso |
| 8 | District | Dima Hasao |
| 9 | Pin code | 788931 |
| 10 | State | Assam |
| 11 | Post Office | Umrangso |
| 12 | Nearest Police Station | Umrangso |
| 13 | Nearest Railway Station | Lanka |
| 14 | Date of Grant of Mining Lease | 16-08-1985 |
| 15 | Date of Execution | 11-01-1986 |
| 16 | Date of opening of Mine | 29-01-1991 |
| 17 | Date of First Renewal, if applicable and its period & expiry | 10-01-2006 |
| 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 | With enactment of new MM (D&R) Amendment Act.2015, the lease is deemed to have been extended for 50 years from date of grant i.e. up to 10.01.2036. |
| 20 | Name of the Nominated Owner with Address, phone, email, fax number and date of appointment | Shri Ganesh Wamanrao Jirkuntwar Vinay Cement Limited (Subsidiary of Dalmia Cement Bharat Ltd), 16 kilo, Jamunanagar, Umrangso, Dima Hasao, Assam, PIN-788931 Email: jirkuntwar.ganesh@dalmiacement.com Mob: 9437562271 Date of Appointment: 25.09.2021 |
| 21 | Name of the Mine Agent with Address, phone, email, fax number and date of appointment | Shri Padmanav Chakravarty Vill: Jamunanagar, P.O: Umrangso, Dist: Dima Hasao, Assam – 788931. Email: Chakravarty.padmanav@dalmiacement.com Mob: 8811017766 |

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|----|--|--|
| 22 | Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines | Date of Appointment: 21.02.2015 Shri. K. Gyaneshwar Singh, Jamunanagar, Umrangso, Assam-788931, Ph-8811018053 Email: singh.kg@dalmiacement.com Date of appointment : 30-08-2013 |
| 23 | Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine | Shri Suratha Sundar Behera, B.E (Mining) and 17 Years, Jamunanagar, Umrangso, Assam-788931, Mob-8011002460 Date of Appointment-05-09-2013. |
| 24 | Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44. | Yes, Geologist- Sri Punit Lal Mahto Date of appointment: 15.11.2021. Qualification: M.Sc.(Geology) Experience: 16 Years Mining Engineer - Sri Suratha Sundar Behera Date of appointment: 05-09-2013. Qualification: BE (Mining) Experience : 17 Years. |
| 25 | Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any. | Review of Mining Plan approved on 13.01.2021, letter no: IBM/GHY/ASM/NCH/LST/MS-48. And Review of Mining plan for the period 2021-22 to 2025-26 (5Y) approved on 07.05.2021, letter No: IBM/GHY/ASM/NCH/LST/MS-48. |
| 26 | Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any. | Review of Mining Plan approved on 13.01.2021, letter no: IBM/GHY/ASM/NCH/LST/MS-48. And Review of Mining plan for the period 2021-22 to 2025-26 (5Y) approved on 07.05.2021, letter No: IBM/GHY/ASM/NCH/LST/MS-48. |
| 27 | Mineral(s) granted in lease and approved for Mining | Limestone |
| 28 | Method of Mining (Opencast, Underground) | Opencast |
| 29 | Category (Fully Mechanized, Others or Manual) | Fully Mechanized |
| 30 | Captive/Non-Captive | Captive |

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. | 2 Bore Holes | 2 Bore Holes | Completed |
| 1c | Exploration Agency & Expenditure in Lakh Rupees during the year | NIL | Rs. 4,36,800/ | @Rs.4200 per MTR. |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2. | NIL | NIL | |
| 1e | Balance reserves as on 01.04.2022 | | 6.86 Million Ton | |
| 1f | General remarks of Inspecting officer on geology, exploration etc. | The drilling has been done within year 2021-22 as per proposal. Entire Area is explored. Geology: The predominant litho type of the area is limestone with intervening shale, shaly limestone, ferruginous limestone and ferruginous sandstone. Because of high rainfall in the region, the upper ridges have undergone heavy denudation leaving a thick mantle of | | |

highly weathered zone all along the slope. The inter banding of ferruginous & shaly limestone with calcareous & ferruginous sandstone also caused differential weathering.

Development

| S.N. | Item | Proposals | Actual Work | Remarks |
|------|--|--|--|--|
| 2a | Location of Development w.r.t. lease area | N:2822220-2822320 E:478780-478910 & N:2822420-2822640 E: 478450-478910 | N:2822220-2822320 E:478780-478910 & N:2822420-2822640 E: 478450-478910 | |
| 2b | Separate benches in topsoil overburden and mineral (Rule 15) | No top soil. Over Burden: 424mRL-393mRL(North) & 316mRL-332mRL(South) Mineral: 392mRL-311mRL | No top soil. Over Burden: 424mRL-393mRL(North) & 316mRL-332mRL(South) Mineral: 382mRL-311mRL | Separate benches are maintained. Separate shale bench, Top waste & mineral benches are formed. |
| 2c | Stripping ratio or ore to OB ratio | 1:0.097 | 1:0.220 | |
| 2d | Quantity of topsoil generation in m ³ | Not Proposed | Not Applicable | No proposal and there is No top soil. |
| 2e | Quantity of overburden generation in m ³ | 146377.42 M ³ | 147783.60 M ³ | |
| 2f | General remarks of Inspecting officer on development of pit w.r.t type of deposit etc. | Well developed pit of approximate 22 Ha with benching is seen. Separate benches of mineral are observed.. Working benches are of approx. 8-12 mtr. | | |

Exploitation

| S.N. | Item | Proposals | Actual Work | Remarks |
|------|---|-----------------------------|----------------|--|
| 3a | Number of pits proposed for production | 01 | 01 | The mining has been carried out in a single pit. |
| 3b | Quantity of ROM mineral production proposed (2021-22). | 1497474.72 MT | 1492454.22 MT | Carried out as per the proposal. |
| 3c | Recovery of saleable /usable mineral from ROM production | 1497474.72 MT | 1492454.22 MT | Carried out as per the proposal. |
| 3d | Quantity of mineral reject generation | No Proposal | Not Applicable | |
| 3e | Grade of mineral reject generation and threshold value declared | No Mineral Reject proposed. | NIL | |
| 3f | Quantity of sub-grade mineral generation | No Proposal | Not Applicable | |
| 3g | Grade of sub-grade mineral generation | No Proposal | Not Applicable | |

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|----|--|---|---|---|
| | Manual/mechanized method adopted for segregation from ROM | Mechanized | Mechanized | Done as per proposal |
| 3i | Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject | No Proposal | Not Applicable | |
| 3j | Provision of drilling & blasting in mineral benches | Yes, Deep hole drilling of 115 mm dia. Drills. Blasting proposed with Nitrate mixed Emulsion explosives of 83mm dia. & ANFO with detonating cord & milli second delay detonators. | Yes, Deep hole drilling of 115 mm dia. Drills. Blasting proposed with Nitrate mixed Emulsion explosives of 83mm dia. & ANFO with detonating cord & milli second delay detonators. | Depth of drill hole up to 9 mtr. |
| 3k | Provision of mining machineries in mineral benches | Yes, Hydraulic Excavator and Tipper combination. | Yes, Hydraulic Excavator and Tipper combination. | Same as per proposal. Bucket Capacity of excavators 2.1 – 3.5 M ³ & Make: KOBELCO SK 520 & HYUNDAI-340 & 390 LC. Tippers of capacity of 35T Pay load with Make:EICHER-8035 XM. |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | 8-12 mtr | 8-12 mtr | Yes, Suitable. Done as per proposal. |
| 3m | Total area covered under excavation /pits | 22.502 Ha | 22.50 Ha | |
| 3n | Ore to OB ratio for the pit/mine during the year | 0.097 T/M ³ | 0.099 T/M ³ | |
| 3o | Total area put in use under different heads at the end of year | Mining-22.502 Ha Waste Dump-7.922 Ha Infrastructure- 0.349 Ha Roads-1.33 Ha Total Area: 32.809 Ha | Mining-22.50 Ha Waste Dump-7.922 Ha Infrastructure-0.33 Ha Roads-1.33 Ha Total Area: 32.082 Ha | |
| 3p | Production of ROM mineral during last five-years period, as Applicable | 2021-22 | 1497474.72 MT | 1492454.22 MT |
| | | 2020-21 | 2097875MT | 1421216.28 MT |
| | | 2019-20 | 2098091MT | 1435432.07 MT |

| | | | | |
|----|---|---|-----------|---------------|
| | | 2018-19 | 2099476MT | 1447721.80 MT |
| | | 2017-18 | 1500254MT | 12171316 MT |
| 3q | General remarks of inspecting officer on method of mining etc | Mining done by tipper of 35 T capacity & excavator of capacity 2.1 to 3.5 M ³ . The mine has been producing limestone close to proposal in review year and 75% in previous years. Mined limestone is supplied at distance 4.5 KM to plant. | | |

Solid Waste Management-Dumping

| S.N. | Item | Proposals | Actual Work | Remarks |
|------|---|---|--|-----------------------|
| 4a | Separate dumping of topsoil, OB & mineral reject (Rule 32,33) | No top soil. No Mineral rejects. To Maintain separate OB dumps. | No top soil. No Mineral rejects. Maintained separate OB dumps. | Done as per proposal. |
| 4b | Location of topsoil, OB & mineral reject dumps | No Topsoil OB Dump: N2822000- N2822050 E478700- E478890. Back Filling: N2822310- N2822420 E478730- E478900 | No Topsoil OB Dump: N2822020- N2822130 E478700-E478840 Back Filling: N2822310- N2822380 E478790-E478890 | OB/Backfilled |
| 4c | Number of Dumps within lease area and outside lease area | 01 | 01 | |
| 4d | Location of Dumps w.r.t. ultimate pit limit (Rule 16) | OB Dump: N2821970- N2822220 E478460- E478920. | OB Dump: N2822020- N2822130 E478700-E478840 | |
| 4e | Number of Active & Alive dumps | 01 | 01 | |
| 4f | Number of dead dumps | 0 | 0 | |
| 4g | Number of dumps established | 01 | 01 | |
| 4h | Whether Retaining wall or garland drain all along dumps are there | Yes | Yes | Yes, made. |
| 4i | Length of Retaining wall or garland drain all along dump | 90 MTR | 90 MTR | Done as per proposal. |
| 4j | Number of settling ponds | 1 | 1 | |
| 4k | Specific comments of inspecting officer on waste dump management | The retaining wall was not observed in some part (50 mtr) due to dumping. The drain provided needs clearing from silt and repair. Retaining wall and drain observed. violation pointed out for retaining wall/drain not in order. | | |

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 | Yes | Done | |
| 5b | Area under backfilling of mined out area | 1.746 Ha | 0.6652 Ha | |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32) | No Proposal | Not Applied | |
| 5d | Total area fully reclaimed & rehabilitated | No Proposal | Not Applied | |
| 5e | General remarks of inspecting officer on backfilling, reclamation etc | Back filling is observed in the pit. Less area is backfilled. Plantation of vertebrate grass observed on dump.violation is pointed out for achieving less area in backfilling | | |

Progressive Mine Closer 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 | As per Rule 26(2) Annual PMCP report to be submitted before 1st day of July of Every Year | Submitted on 15 th June 2022. | |
| 6b | Management of worked/mined out benches | | | |
| | i) Area available for rehabilitation (Ha) | NIL | NIL | |
| | ii) Afforestation done (ha) | 0.2 Ha | 0.46 Ha | |
| | iii) No.of saplings planted during the year | 300 | 510 | |
| | iv) Cumulative no. of plants | NIL | 6592 | |
| | v) Any other specific method of rehabilitation | No Proposal | Not Applicable | |
| | vi) Cost incurred on watch & care during the year | Rs. 65000 | Rs. 150850 | |

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|----|--|---|--|---------------------------------|
| 6c | Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L*B*D) ii) Void filled by waste/tailings iii) Afforestation on the backfilling iv) Rehabilitation by making water reservoir v) Any other specific means | i) 1.746 Ha ii) Nil iii) Nil iv) Nil v) Nil | i) 0.6652 Ha ii) Nil iii) Nil iv) Nil v) Nil | Less Area Backfilled. |
| 6d | Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation | i) 300 nos saplings. ii) Nil iii) NA | i) 510 nos saplings ii) Nil iii) NA | |
| 6e | Compliance of Environment monitoring (core zone & buffer zone) | Air, Noise and Water quality monitoring will be done during the year within the lease area. | Air, Noise and Water quality monitoring carried out as per the proposal during the reporting year. | Report of one quarter attached. |
| 6f | General remarks of inspecting officer on PMCP compliance & progressive closer operations | Environment Monitoring is done. Backfilling is done on less area. | | |

Mineral Conservation

| S.N. | Item | Proposals | Actual Work | Remarks |
|------|--|--|--|-----------------------|
| 7a | ROM mineral dispatch or grade wise sorting within lease area | Produced ROM will be directly sent to the crusher unit from the mine | Produced ROM has directly sent to the crusher unit from the mine | Done as per proposal. |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical | NA | NA | |
| 7c | Different grade of mineral sort out at mine | Nil | Nil | |
| 7d | Any beneficiation process at mines | NIL | NIL | |

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| 7e | General remarks of inspecting officer on Mineral conservation & beneficiation issues | ROM mined is sent to plant. |
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Environment

| S.N. | Item | Proposals | Actual Work | Remarks |
|------|---|---|--|--|
| 8a | Separate removal and utilization of topsoil (Rule32) | No top soil | No top soil | |
| 8b | Concurrent use or storage of topsoil | Nil | Nil | |
| 8c | Separate dumps for overburden waste rock, rejects and fines (Rule 33) | Separate OB dumps. | Separate OB dumps. | Done as per proposal. |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | Yes | Yes | Backfilling is being done. |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | Nil | Nil | |
| 8f | Baseline information on existence of plantation & additional plantation done (Rule 41) | 1.Within lease- 300 nos saplings. | 1.Within lease- 510 no's saplings. | Achieved more than proposal during the RY. 500 plantations done outside the lease. |
| 8g | Survival rate | Nil | 1. within Lease=78%. 2. Outside Lease =79% . | |
| 8h | Water sprinkling on roads to control airborne dust | Water Sprinkling on Haul roads were proposed. | Water sprinkling by water tanker over haul roads has been carried out. | Water Sprinkling on Haul roads were proposed. |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mine area | Plantation can be seen inside lease on dumps. | | |

Compliance of Rule 45

| S.N. | Item | Comments | Remarks |
|------|---|---|------------|
| 9a | Status of submission of monthly and Annual returns | Monthly Return Submitted up to - November'2022. Annual Return submitted up to- 2021-22 | Complied |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | 1. K Gyaneshwar Singh - Mines Manager. 2. Suratha Sundar Behera - Mining Engineer. 3. Punit Lal Mahto- Geologist. | |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Pit- 22.50 Ha Waste Dump-7.922 Ha Others- 1.66 Ha Total - 32.082 Ha | |
| 9d | Scrutiny of Annual return on afforestation | 1.Within lease- 510 no's saplings. 2.Out Side lease-500 no's saplings. | |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade & Quantity) | NIL | |
| 9f | Scrutiny of Annual return on ROM stock and/or grade ore | Opening Stock- Nil Production-1492454.22 MT. Dispatch-1492454.22 MT. Closing Stock- Nil | |
| 9g | Scrutiny of Annual return on sale value, Ex.Mine price & production costs | No Sale. Captive Consumption. Ex-Mine Price: Rs. 319.35 Cost of Production: Rs. 319.35/MT. | |
| 9i | Scrutiny of Annual return on Fixed assets | Cost of Assets: Rs. 11872778 | |
| 9k | Scrutiny of Annual return on mining Machineries | Back Hoe- 10 Rock Breaker-1 Drill Machines-03 Dumper -43 No's Dozer- 02 No's | Submitted. |

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

| Sr. no. | Date of inspection/ Violation date if based on office record | Violation letter no. | Rule violated (Details of Violation) | Compliance status |
|---------|--|---|---|----------------------------------|
| 1 | 1 st October, 2021 | IBM/GHY/ASM/NCH /LST-4 | Violation pointed out Rule 11(1) of MCDR- 2017 | Complied. |
| 2 | 26 th December, 2022 | MCDR- MiFLOLST/5/2023- GUH-IBM_RO_GUH | Violation pointed out Rule 11(1) of MCDR- 2017 | Complied on dated 06.06.2023. |

Date:

06/06/23.

Name: Sandeep Kumar Singh

Designation: Deputy Controller of Mines (I/C),

