

INDIAN BUREAU OF MINES
MINES CONTROL AND CONSERVATION OF MINERAL DIVISION
MCDR INSPECTION REPORT
Guwahati Regional Office

Mine file No : IBM/GHY/ASM/NCH/LST-4

Mine code : 38ASM08002

Date of Inspection: : 21.10.2019

General

| S.N. | Particulars | |
|------|--|--|
| 1 | Name of the Mine | Jamunanagar Limestone Mines |
| 2 | Total Lease Area(Ha) with breakup of Non-forest and forest land | 35 Hect , Forest : NIL Non Forest : 35 Hect. |
| 3 | Mine code | 38ASM08002 |
| 4 | IBM Registration Number under rule 45 of MCDR , 1988 | IBM/7090/2011 |
| 5 | Name of the lessee,Address, phone, email and fax number | M/s Vinay Cement Limited |
| 6 | Village | Jamuna Nagar |
| 7 | Taluka/Mandal | Amri Mauza |
| 8 | District | Dima Hasao |
| 9 | Pincode | 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 | 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 | Sri R. A. Krishnakumar Date of appointment : 14.12.2015 Vill : Jamunanagar, P.O : Umrangso Dist : Dima Hasao Assam - 788931 Email : ra.krishnakumar@dalmiacement.com Mob : 9940667694 |
| 21 | Name of the Mine agent with Address, phone, email,fax number and date of appointment | Sri Padmanav Chakravarty Date of appointment: 21.02.2015 Vill : Jamunanagar, P.O : Umrangso Dist : Dima Hasao,Assam - 788931 Email : chakravarty.padmanav@dalmiacement.com Mob : 8811017766 |
| 22 | Name of the Mines Manager with Address, phone, email,fax number and date of appointment | Sri K Gyaneshwar Singh Date of appointment: 30.08.2013 Vill : Jamunanagar, P.O : Umrangso Dist : Dima Hasao,Assam - 788931 Email : singh.kg@dalmiacement.com Mob : 8811018053 |
| 23 | Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine | Sri Suratha Sundar Behera Date of appointment : 16-04-2012 Qualification : BE (Mining) Experience : 13 Years Vill : Jamunanagar, P.O : Umrangso Dist : Dima Hasao,Assam - 788931 Email : behera.suratha@dalmiacement.com Mob : 8011002460 |

| | | |
|----|--|--|
| 24 | Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44 | Yes, Geologist- Sri Abhijeet Adhikari Date of appointment : 23.04.2012. Qualification : M.Sc.(Geology) Experience : 12 Years Mining Engineer - Sri Suratha Sundar Behera Date of appointment : 16-04-2012 Qualification : BE (Mining) Experience : 13 Years. |
| 25 | Date of Approaval of Mining plan/Modified Mining plan with five year period & specific condition in approaval letter, if any | Modification of Mining Plan was approved on 25.02.2016 for the period 2016-17 to 2020-21. |
| 26 | Date of Approaval of Scheme of Mining/Modified Scheme of Mining with five year period & specific condition in approaval letter, if any | Modification of Review of Mining Plan was approved on 29.06.2018 for the period 2018-19 to 2020-21. |
| 27 | Mineral(s) granted in lease and proved for | Limestone |
| 28 | Method of Mining(Open cast, Underground) | Open cast |
| 29 | Category (Fully Mechanised, Others or Manual) | Fully Mechanised |
| 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

| S.N. | Items | Proposals | Actual work | Remarks |
|------|--|--|--|--|
| 1a | Backlog of previous year | Nil | Nil | |
| 1b | Exploration over lease area for Geological axis 1 or 2 | Nil | Nil | No proposal for the reporting year |
| 1c | Exploraion Agency & Expenditure in lakh Rupees during the year | Nil | Nil | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | Nil | Nil | Exploration over entire lease area has already been completed. The entire lease area is under G1 & G2 category. Further 2 no of bore holes will be drilled in the year 2020-21 to know the depth continuation of the ore body. |
| 1e | Balance reserves as on 01.04.2019 | | Balance reserves as on 01.04.2019 is 11.22 million tons. | Balance reserves as on 01.04.2019 is 11.22 million tons. |
| 1f | General remarks of inspecting officer on geology, exploration etc. | Exploration over entire lease area has already been completed. The entire lease area is under G1 & G2 category. Further 2 no of bore holes will be drilled in the year 2020-21 to know the depth continuation of the ore body. | | |

Development

| S.N. | Items | Proposals | Actual work | Remarks |
|------|--|--|---|---|
| 2a | Location of development w.r.t lease area | N Location:N 2822040-N 2822650, E 478425-E478920 | N Location:N 2822040-N 2822650, E 478425-E478920 | Carried out as per the proposal, but could not achieved the entire proposed production during the reporting year. |
| 2b | Separate benches in topsoil , overburden and mineral(Rule 15) | YES, OB: 429 mRL-360mRL, Mineral: 360 mRL-314mRL. | YES, OB: 429 mRL-360mRL, Mineral: 360 mRL-318mRL. | Carried out as per the proposal, but could not achieved the entire proposed production during the reporting year. |
| 2c | Stripping ratio or ore to OB ratio | 5.6 | 2.5 | |
| 2d | Quantity of topsoil generation in m ³ | Nil | Nil | No proposal for generation of top soil during the reporting year. |
| 2e | Quantity of overburden generation in m ³ | 374981.825 | 577955.625 | |
| 2f | General remarks of inspecting officer on development of pit w.r.t type of deposit etc. | The lessee has carried out as per the proposal, but could not achieved the entire proposed production during the reporting year. | | |

Exploitation

| S.N. | Items | Proposals | Actual work | Remarks |
|------|---|---|---|---------|
| 3a | Number of pits proposed for production | 1 | 1 | |
| 3b | Quantity of ROM mineral production proposed | 2099476.25 MT | 1447721.8 MT | |
| 3c | Recovery of salable/usable mineral from ROM production | 2099476.25 MT | 1447721.8 MT | |
| 3d | Quantity of mineral reject generation | Nil | Nil | |
| 3e | Grade of mineral reject generation and thershold value declared | Nil and 34% CaO, 4% MgO | Nil and 34% CaO, 4% MgO | |
| 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 | Nil | Nil | |
| 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. | |
| 3k | Provision of mining machineries in mineral benches | Yes, Hydraulic Excavator and Tipper combination. | Yes, Hydraulic Excavator and Tipper combination. | |

| | | | | |
|----|---|--|---|--|
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM. | YES, OB: 429 mRL-360mRL, Mineral: 360 mRL-314mRL. | YES, OB: 429 mRL-360mRL, Mineral: 360 mRL-318mRL. | |
| 3m | Total area covered under excavation / pits | 19.59 ha | 19.59 ha | |
| 3n | Ore to OB ratio for the pit/mine during the year | 5.6 | 2.5 | |
| 3o | Total area put in use under different heads at the end of year | Pit =20.73 ha Buildings= 0.330 ha OB Dump = 6.64 ha Road = 1.330 ha Total = 29.03 ha | Pit =20.73 ha Buildings= 0.330 ha OB Dump = 6.64 ha Road = 1.330 ha Total = 29.03 ha | |
| 3p | Production of ROM mineral during last five year, as applicable | <u>Proposal</u> 2013-14 = 624435 MT 2014-15 = 624400 MT 2015-16 = 624410 MT 2016-17 = 1500000 MT 2017-18 = 1500254 MT | <u>Actual</u> 2013-14 = 74296 MT 2014-15 = 278518 MT 2015-16 = 338690.6 MT 2016-17=1474314.7 MT 2017-18=1271316.4 MT | |
| 3q | General remarks of inspecting officer on method of mining etc | The lessee has carried out as per the proposal, but could not achieved the entire proposed production during the reporting year. | | |

Solid Waste Management- Dumping

| S.N. | Items | Proposals | Actual work | Remarks |
|------|--|---|---|---------|
| 4a | Separate dumping of topsoil, OB & mineral reject (Rule 32, 33) | Yes | Yes | |
| 4b | Location of topsoil , OB & mineral reject dumps | OB Dump-1: N2822050-N2822260, E478790-E478925 OB Dump-2: N28221960-N2822140, E478450-E478820 | OB Dump-1: N2822050-N2822260, E478790-E478925 OB Dump-2: N28221960-N2822140, E478450-E478820 | |
| 4c | Number of dumps within lease area and outside lease area | 2 nos. within the lease area. | 2 nos. within lease area | |
| 4d | Location of dumps w.r.t ultimate pit limit (Rule 16) | OB Dump-1: N2822050-N2822260, E478790-E478925 OB Dump-2: N28221960-N2822140, E478450-E478820 (Out Side the proposed UPL) | OB Dump-1: N2822050-N2822260, E478790-E478925 OB Dump-2: N28221960-N2822140, E478450-E478820 (Out Side the proposed UPL) | |
| 4e | Number of active & alive dumps | OB Dump- 1 | OB Dump- 1 | |
| 4f | Number of dead dumps | 1 | 1 | |
| 4g | Number of dumps stabilised | Nil | Nil | |
| 4h | Whether Retaining wall or garland drain all along dump | Yes, No proposal for the reporting year | Yes, No proposal for the reporting year | |
| 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 | Dumps within the lease area are out side of the UPL and no proposal for any retaining wall and garland drain during the reporting year. | | |

Solid Waste Management- Backfilling

| S.N. | Items | Proposals | Actual work | Remarks |
|------|--|--|-------------|---------|
| 5a | Status on part or full extraction of mineral from mined out area before starting backfilling | Nil | Nil | |
| 5b | Area under backfilling of mined out area | Nil | Nil | |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mined out area | Nil | Nil | |
| 5d | Total area fully reclaimed & rehabilitated | Nil | Nil | |
| 5e | General remarks of inspecting officer on backfilling , reclamation etc | There is no scope for backfilling & reclamation during the reporting year. | | |

Progressive Mine Closure Plan

| S.N. | Items | 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 06th April, 2019 for the reporting year | |
| 6b | Management of worked /mined out benches i)Area available for rehabilitation (ha) ii)Afforestation done(ha) ii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi)Cost incurred on watch & care during the year | i) NA ii) NA ii) NA iv) NA v) Nil vi) NA | i) NA ii) NA ii) NA iv) NA v) Nil vi) NA | |
| 6c | Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii)Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means | i) NA ii) Nil iii) NA iv) NA v) Nil | i) NA ii) Nil iii) NA iv) NA v) Nil | |
| 6d | Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation | i) 300 nos saplings. ii) 0.3 Ha iii) Nil | i) 580 nos saplings. ii) 0.3 Ha iii) Nil | Rehabilitation not started as the lease area is not yet matured. |
| 6e | Compliance of Environmental 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 (each 2 locations) quality monitoring carried out as per the proposal during the reporting year. | |
| 6f | General remarks of inspecting officer on PMCP compliance & progressive closure operations | The lessee has carried out afforestation and environmental monitoring as per the proposal during the reporting year. | | |

Mineral Conservation

| S.N. | Items | 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 | |
| 7b | Method of grade -wise mineral sorting i.e manual or mechanical | Mechanical | Mechanical | |
| 7c | Different grade of mineral sorted out at mines | Nil | Nil | |
| 7d | Any beneficiation process at mines | Nil | Nil | |
| 7e | General remarks of inspecting officer on Mineral conservation & beneficiation issues | No such proposal for mineral beneficiation was proposed during the reporting year. | | |

Environment

| S.N. | Items | Proposals | Actual work | Remarks |
|------|---|--|--|--|
| 8a | Separate removal and utilization of topsoil (Rule 32) | NA | NA | Generation of top soil is nil during the reporting yaer. |
| 8b | Concurrent use or storage of topsoil | Nil | Nil | |
| 8c | Separate dumps for overburden , waste rock , rejects and fines (Rule 33) | Yes | Yes | |
| 8d | Use of overburden , waste rock, rejects and fines dumps for restoring the land to its original use. | Yes | Yes | |
| 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. 2.Out Side lease-1000 nos saplings. | 1.Within lease- 580 nos saplings. 2. Out Side lease-770 nos saplings. | |
| 8g | Survival rate | Nil | 1. within Lease - 84% 2. Outside Lease -80% | |
| 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. | |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | Lessee has planted 580 nos of saplings within the mining lease and 770 nos of saplings outside the lease area and carried out water sprinkling inside the mine over haul roads to minimize the fugutive dust emmision. This sustains the asthetic beauty of the mine area. | | |

Compliance of Rule 45

| S.N. | Item | Comments | | Remarks |
|------|--|-------------------------------|--------------------------------|---------|
| 9a | Status of submission of Monthly and Annual returns | Monthly Return submitted upto | Submitted upto September' 2019 | |
| | | Annual Return submitted upto | Submitted upto 2018-19 | |

| S.N | Item | Details Given in Annual Return | Observation of I/Officer |
|-----|---|--|--|
| 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. Abhijeet Adhikari- Geologist. | Geologist and Mining engineer were present during the inspection. Date of appointment: Manager: 30.08.2013 Mining Engineer: 16.04.2012 Geologist: 23.04.2012 |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Pit =20.73 ha Buildings= 0.330 ha OB Dump = 6.64 ha Road = 1.330 ha Total = 29.03 ha | Pit =20.73 ha Buildings= 0.330 ha OB Dump = 6.64 ha Road = 1.330 ha Total = 29.03 ha |
| 9d | Scrutiny of Annual return on afforestation | Saplings:- 1. Within lease- 580 2. Outside Lease- 770 Survival rate 1. within Lease - 84% 2. Outside Lease- 80% | Saplings:- 1. Within lease- 580 2. Outside Lease- 770 Survival rate 1. within Lease - 84% 2. Outside Lease- 80% |
| 9e | Scrutiny of Annual return on mineral reject generation(Grade & Quantity) | Nil | Nil |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | Opening Stock- Nil Production- 1447721.8 MT. Dispatch- 1447721.8 MT. Closing Stock- Nil There is no separate stock for graded ore | Opening Stock- Nil Production- 1447721.8 MT. Dispatch- 1447721.8 MT. Closing Stock- Nil There is no separate stock for graded ore |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price & production cost | Ex. Mine Price- 305.91 | Cross checked from the returns found it to be correct |
| 9i | Scrutiny of Annual return on fixed assets | Rs.- 24951461 | Verified with Asset register during inspection & found it to be correct. |
| 9k | Scrutiny of Annual return on mining machineries | 1) Back Hoe(0.9 cum)-08 2) Back Hoe(1.16 cum)-01 3) Back Hoe(2 cum)-02 4) Dumper(25 T) -35 5) Dumper(35 T) -08 6) Dozer(160 HP) -02 7)Air compressor -03 8) Blast host drill - 03 | Verified from submitted annual machinery statement; 1) Back Hoe(0.9 cum)-08 2) Back Hoe(1.16 cum)-01 3) Back Hoe(2 cum)-02 4) Dumper(25 T) -35 5) Dumper(35 T) -08 6) Dozer(160 HP) -02 7)Air compressor -03 8) Blast host drill - 03 |

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

No violation pointed out during this inspection. Lessee has complied the earlier violations under rule 12(1), 13(1), 14(4) and 37(1) of MCDr 2017 vide letter dated 05.04.2018.


 Name of Inspecting Officer with Designation and Date