

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

Mine file No : IBM/GHY/MEG/JNH/LST-8

Mine code : 38MEG03010

Date of Inspection : 14.12.2019

General

S.N.	Particulars	
1	Name of the Mine	Umsoo Mootang Block-I Limestone Mines
2	Total Lease Area(Ha) with breakup of Non-forest and forest land	4.90 Ha.
3	Mine code	38MEG03010
4	IBM Registration Number under rule 45 of MCDR , 1988	IBM/929/2011
5	Name of the lessee,Address,phone, email and fax number	M/s Dalmia Cement (Bharat) Limited
6	Village	Thangskai
7	Taluka/Mandal	Narpuh
8	District	East Jaintia Hills
9	Pincode	793210
10	State	Meghalaya
11	Post office	Lumshnong
12	Nearest police station	Lumshnong
13	Nearest Railway station	Badarpur
14	Date of Grant of Mining Lease	14.09.2009
15	Date of Execution	25.09.2009
16	Date of opening of Mine	01.10.2009
17	Date of first Renewal , if applicable and its period & expiry	N.A.
18	Date of second Renewal , if applicable and its period & expiry	N.A.
19	Date of submission of Renewal application if Mining operations are continuing under deemed extension	N.A.
20	Name of the Nominated owner with Address, phone, email, fax number and date of appointment	Sri Venkatesan Thyagarajan M/s Dalmia Cement (Bharat) Limited Umsoo Mootang, Village : Thangskai, P.O. Lumshnong, District : East Jaintia Hills, Meghalaya. 793 210. Date of appointment : 18.05.2018, Email-dept.mines@dalmiacement.com
21	Name of the Mine agent with Address, phone, email, fax number and date of appointment	Sri Sanjay Kumar M/s Dalmia Cement (Bharat) Limited Umsoo Mootang, Village : Thangskai, P.O. Lumshnong, District : East Jaintia Hills, Meghalaya. 793 210. Appointment:12.07.2013, Email- kumar.sanjay@dalmiacement.com Mob: 9612159689
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment	Sri Manoj Kumar Sinha M/s Dalmia Cement (Bharat) Limited, Umsoo Mootang, Village : Thangskai, P.O. Lumshnong, District : East Jaintia Hills, Meghalaya. 793210. Appointment: 30.09.2011 Email-sinha.manoj@dalmiacement.com Mob:9612159673
23	Name of the Mining Engineer , Qualification and total experience with Address , phone, email, fax number and date of appointment in mine	Sri Dhananjay Kumar B.E Mining, 20 yrs experience M/s Dalmia Cement (Bharat) Limited, Umsoo Mootang, Village : Thangskai, P.O. Lumshnong, District : East Jaintia Hills, Meghalaya. 793 210. Appointment: 16.05.2017
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44	Sri Chandrashekhar Sharma M/s Dalmia Cement (Bharat) Limited, Umsoo Mootang, Village : Thangskai, P.O. Lumshnong, District : East Jaintia Hills, Meghalaya. 793 210. Date of appointment: 19.11.2019

25	Date of Approval of Mining plan/Modified Mining plan with five year period & specific condition in approval letter, if any	314(3)/2008-MCCM(CZ)/MP-54, dated- 10.07.2009
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five year period & specific condition in approval letter, if any	IBM/ GHY/MEG/JNH/LST/MS-08 Dated 27.10.2016 IBM/GHY/MEG/JNH/LST/MS-8 date 29.01.2019
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Open cast, Underground)	Open Cast
29	Category (Fully Mechanised, Others or Mnuual)	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

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	Total ML area already explored at G1 Level
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	
1e	Balance reserves as on 01.04.2019 in Million Ton	-	104847 tons	
1f	General remarks of inspecting officer on geology, exploration etc.	Exploration under G1 level has been already carried out in the entire lease area of 4.9 Ha. Presently the mine is temporary discontinuance of work since 09.09.2019.		

Development

S.N.	Items	Proposals	Actual work	Remarks
2a	Location of development w.r.t lease area	N-NNE side of the pit from 642 mRL to 584 mRL	N-NNE side of the pit from 642 mRL to 597 mRL	Partially worked in the proposed benches and could not achieved the targeted production quantity. The lessee had submitted a review proposal with necessary corrections and the same has been approved
2b	Separate benches in topsoil , overburden and mineral(Rule 15)	Yes, OB bench: 642mRL-638 mRL, Mineral: 638 mRL-584 mRL.	Yes, OB bench: 642mRL-638 mRL, Mineral: 638 mRL-597 mRL.	Partially worked in the proposed benches and could not achieved the targeted production quantity. The lessee had submitted a review proposal with necessary corrections and the same has been approved
2c	Stripping ratio or ore to OB ratio	1:0.11	1:0.28	
2d	Quantity of topsoil generation in m3	Nil	Nil	Generation of top soil was nil during the reporting year
2e	Quantity of overburden generation in m3	6952 Cum.	5657 Cum	
2f	General remarks of inspecting officer on development of pit w.r.t type of deposit etc.	The lesse has partially worked in the proposed benches and could not achieved the targeted production quantity. The lessee had submitted a review proposal with necessary corrections and the same has been approved for the period 2019-20 to 2023-24. Presently the mine is temporary discontinuance of work since 09.09.2019.		

Exploitation

S.N.	Items	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	One	One	
3b	Quantity of ROM mineral production proposed in MT	150909	52273	Partially carried out the proposal and could not achieved the proposal

3c	Recovery of salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral reject generation and threshold value declared	Nil	Nil	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade mineral generation	Nil	Nil	
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, Jack Hammer 115 mm dia. Drills. Blasting proposed with LD explosives of 25mm dia. & 83mm dia. with detonating cord & milli second delay detonators.	Yes, Jack Hammer 115 mm dia. Drills. Blasting proposed with LD explosives of 25mm dia. & 83mm dia. with detonating cord & milli second delay detonators.	
3k	Provision of mining machineries in mineral benches	Yes, Shovel and Dumper combination. L&T-PC 300 (Backhoe), Hyva- 30 ton	Yes, Shovel and Dumper combination. L&T-PC 300 (Backhoe), Hyva- 30 ton	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	N-NNE side of the pit from 642 mRL to 584 mRL	Yes, OB bench: 642mRL-638 mRL, Mineral: 638 mRL-597 mRL.	
3m	Total area covered under excavation / pits in Hec.	4.245 Ha.	4.245 Ha.	
3n	Ore to OB ratio for the pit/mine during the year	1:0.11	1: 0.28	
3o	Total area put in use under different heads at the end of year in Hec.	Pit = 4.245 ha Road = 0.012 ha Others = 0.313 ha Total = 4.570 ha	Pit = 4.245 ha Road = 0.012 ha Others = 0.313 ha Total = 4.570 ha	
3p	Production of ROM mineral during last five year, as applicable in MT	<u>Proposal</u> 2014-15 = 224041 tons (post approval) 2015-16 = 113447 tons (post approval) 2016-17 = 150859.800 tons 2017-18 = 150958.600 tons 2018-19 = 150909.200 tons	<u>Actual</u> 2014-15 = 224041 tons 2015-16 = 113447 tons 2016-17 = 143798 tons 2017-18 = 148739 tons 2018-19 = 52273 tons	
3q	General remarks of inspecting officer on method of mining etc	The lessee has partially worked in the proposed benches and could not achieved the targeted production quantity. The lessee had submitted a review proposal with necessary corrections and the same has been approved for the period 2019-20 to 2023-24. Presently the mine is temporary discontinuance of work since 09.09.2019.		

Solid Waste Management- Dumping

S.N.	Items	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject(Rule 32, 33)	Nil	Nil	No proposal during the reporting year
4b	Location of topsoil , OB & mineral reject dumps	Nil	Nil	Proposal for temporary stacking at a corner of the working pit, the lessee has utilised the generated OB for maintaining the haul road, damaged due to heavy rain.

4c	Number of dumps within lease area and outside lease area	Nil	Nil	Proposal for temporary stacking at a corner of the working pit, the lessee has utilised the generated OB for maintaining the haul road, damaged due to heavy rain.
4d	Location of dumps w.r.t ultimate pit limit (Rule 16)	Nil	Nil	No proposal during the reporting year
4e	Number of active & alive dumps	Nil	Nil	No proposal during the reporting year
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps stabilised	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dump	Nil	Nil	No proposal during the reporting year
4i	Length of Retaining wall or garland drain all along dump	Nil	Nil	No proposal during the reporting year
4j	Number of settling ponds	Nil	Nil	No proposal during the reporting year
4k	Specific comments of inspecting officer on waste dump management	Proposal for temporary stacking at a corner of the working pit, the lessee has utilised the generated OB for maintaining the haul road, damaged due to heavy rain. Presently the mine is temporary discontinuance of work since 09.09.2019.		

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	No proposal during the reporting year
5b	Area under backfilling of mined out area in Sq. mtr	Nil	Nil	No proposal during the reporting year
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	Nil	Nil	No proposal during the reporting year
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	No proposal during the reporting year
5e	General remarks of inspecting officer on backfilling, reclamation etc	There was no proposal for back filling with in the lease area. The lessee has carried out as per the proposal during the reporting year. Presently the mine is temporary discontinuance of work since 09.09.2019.		

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 for the reporting year.	
6b	Management of worked /mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) 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 iii) NA iv) NA v) Nil vi) NA	i) NA ii) NA iii) 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) 200 nos saplings within the lease area) ii) 0.20 Ha iii) Green belt development	i) 300 nos saplings (200 in out side Ml area and 100 within the lease area) ii) 0.30 Ha iii) Green belt development	
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 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. Presently the mine is temporary discontinuance of work since 09.09.2019.		

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	Mehanical	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. Presently the mine is temporary discontinuance of work since 09.09.2019.		

Environment

S.N.	Items	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Nil	No top soil within the lease area
8b	Concurrent use or storage of topsoil	Nil	Nil	
8c	Separate dumps for overburden , waste rock , rejects and fines(Rule 33)	Nil	Nil	Temporary stacking proposal was given, generated waste was utilised for maintainance of haul road by the lessee.
8d	Use of overburden , waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	
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)	i) 200 nos saplings within the lease area	i) 300 nos saplings (200 in out side Ml area and 100 within the lease area)	
8g	Survival rate	70-80%	1. within Lease - 70.00% 2. Outside Lease -65.00%	
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 200 no of sapling within and along the lease boundary, 100 nos of saplings outside the lease area and carried out water sprinkling inside the mine over haul roads to minimize the fugitive dust emmision. This sustains the asthetic beauty of the mine area. Presently the mine is temporary discontinuance of work since 09.09.2019.		

Compliance of Rule 45

S.N.	Item	Comments	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Return submitted upto Annual Return submitted upto	Submitted upto November' 2019 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. Manoj Kumar Sinha- Mines Manager. 2. Sanjay Kumatr- Mining Engineer. 3. Chandrasekhar Sharma- Geologist.	1. Manoj Kumar Sinha- Mines Manager. 2. Sanjay Kumatr- Mining Engineer. 3. Chandrasekhar Sharma- Geologist.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit = 4.245 ha Road = 0.012 ha Others = 0.313 ha Total = 4.570 ha	Pit = 4.245 ha Road = 0.012 ha Others = 0.313 ha Total = 4.570 ha
9d	Scrutiny of Annual return on afforestation	Saplings:- 1. Within lease- 200 2. Outside Lease- 100 Survival rate 1. within Lease - 70.00% 2. Outside Lease - 65.00%	Saplings:- 1. Within lease- 200 2. Outside Lease- 100 Survival rate 1. within Lease - 70.00% 2. Outside Lease - 65.00%
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- 52273 Tons Dispatch- 52273 Tons. Closing Stock- Nil There is no separate stock for graded ore	Opening Stock- Nil Production- 52273 Tons Dispatch- 52273 Tons. 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- 373.42	Cross checked from the returns found it to be correct
9i	Scrutiny of Annual return on fixed assets	Rs.- 236944146/-	Verified with Asset register during inspection & found it to be correct.
9k	Scrutiny of Annual return on mining machineries	1) Back Hoe ---01 2) Air compressor ---01 3) Blast host drill - 01 4) Dumper -----01 5) Dozer -----01 6) Water Tanker ---01	Verified from submitted annual machinery statement; 1) Back Hoe ---01 2) Air compressor ---01 3) Blast host drill - 01 4) Dumper -----01 5) Dozer -----01 6) Water Tanker ---01

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

No violation pointed out during this inspection. Vide letter No. DCBL/MINES/2018-19/31, dated 27.10.2018, lessee has complied the earlier violations under rule 11(1), 26(2), 34(2), 45(1) and 49 of MCDR 2017 issued on dated 20.09.2018.


 Name of inspecting officer with designation and date