

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 : 38MEG03018

Date of Inspection: : 13.12.2019

General

S.N.	Particulars	
1	Name of the Mine	Umsoo Mootang Limestone Mines Block-III
2	Total Lease Area(Ha) with breakup of Non-forest and forest land	4.90 Ha.
3	Mine code	38MEG03018
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	Badarapur
14	Date of Grant of Mining Lease	14.12.2016
15	Date of Execution	23.12.2016
16	Date of opening of Mine	01.10.2018
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 Shishupal Singh M/s Dalmia Cement (Bharat) Limited, Umsoo Mootang,Village : Thangskai, P.O. Lumshnong, District : East Jaintia Hills, Meghalaya. 793210. Appointment: 30.09.2011 Email-singh.shishupal@dalmiacement.com Mob:7085099840 Appointment: 16.05.17
23	Name of the Mining Engineer , Qualification and total experience with Address , phone, email, fax number and date of appointment in mine	Sri Amrit Pegu B.Tech Mining, 6 yrs experience M/s Dalmia Cement (Bharat) Limited, Umsoo Mootang,Village : Thangskai, P.O. Lumshnong, District : East Jaintia Hills, Meghalaya. 793 210. Appointment: 16.09.2018

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 Approaval of Mining plan/Modified Mining plan with five year period & specific condition in approaval letter, if any	MP-319(3)/2009 MCCM/CZ/MP/21 date 03.12.2009
26	Date of Approaval of Scheme of Mining/Modified Scheme of Mining with five year period & specific condition in approaval letter, if any	N.A.
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		2162247 tons	
1f	General remarks of inspecting officer on geology, exploration etc.	There was no exploration proposal during the reporting year. Exploration under G1 level has been already carried out in the entire lease area of 4.9 Ha. The mine was open on 01.10.2018		

Development

S.N.	Items	Proposals	Actual work	Remarks
2a	Location of development w.r.t lease area	All direction of the pit from 673 mRL to 656 mRL	All direction of the pit from 682 mRL to 679 mRL	The leasee could not carried out the development as per the roposal, A violation letter in this regard has issued by this on 23.12.2019 and in compliance of the violation, the lesee has submitted modification in the approced document to this office and the same is under
2b	Separate benches in topsoil , overburden and mineral(Rule 15)	Yes, OB bench: 683mRL-679 mRL, Mineral: 679 mRL-656 mRL.	Yes, OB bench: 683mRL-679 mRL, Mineral: 679 mRL-6747 mRL.	The leasee could not carried out the development as per the roposal, A violation letter in this regard has issued by this on 23.12.2019 and in compliance of the violation, the lesee has submitted modification in the approced document to this office and the same is under
2c	Stripping ratio or ore to OB ratio	1: 0.00	1: 0.33	

2d	Quantity of topsoil generation in m ³	Nil	Nil
2e	Quantity of overburden generation in m ³	Nil	5284
2f	General remarks of inspecting officer on development of pit w.r.t type of deposit etc.	The leasee could not carried out the development as per the roposal, A violation letter in this regard has issued by this on 23.12.2019 and in compliance of the violation, the lesee has submitted modification in the aproced document to this office and the same is under process.	

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	680000	1753	Less than 1% of the proposal was achieved by the lessee, aviolation letter in this regard has already been issued on 23.12.2019 and in compliance of the violation, the lesee has submitted modification in the aproced document to this office and the same is under process.
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 thershold 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		
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	Yes, OB bench: 683mRL-679 mRL, Mineral: 679 mRL-656 mRL.	Yes, OB bench: 683mRL-679 mRL, Mineral: 679 mRL-6747 mRL.	
3m	Total area covered under excavation / pits in Hec.	4.21 Ha.	0.39 Ha.	
3n	Ore to OB ratio for the pit/mine during the year	1: 0.00	1: 0.33	
3o	Total area put in use under different heads at the end of year in Hec.	Pit = 4.245 ha Road = Nil Others = Nil Total = 4.245 ha	Pit = 0.39 ha Dump = 0.17 ha Road = 0.11 ha Others = 0.40 ha Total = 1.07 ha	

3p	Production of ROM mineral during last five year, as applicable in MT	<u>Proposal</u> 1st Year = 224041 tons 2nd Year = 113447 tons 3rd Year = 150859.800 tons	2018-19(3rd year) = 1753 tons	Less than 1% of the proposal was achieved by the lessee, aviolation letter in this regard has already been issued on 23.12.2019 and in compliance of the violation, the lesee has submitted modification in the aproced document to this office and the same is under
3q	General remarks of inspecting officer on method of mining etc	The lessee could not carried out as per the proposal of the approved document. Less than 1% of the proposal was achieved by the lessee, aviolation letter in this regard has already been issued on 23.12.2019 and in compliance of the violation, the lesee has submitted modification in the aproced document to this office and the same is under process.		

Solid Waste Management- Dumping

S.N.	Items	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject(Rule 32, 33)	Yes, Waste dump prposal given	Waste dump carried out in the SE corner of the lease area over an extent of 0.17 ha.	The mining plan was approved on 03.12.2009 based on the LOI issued for the said lease area, and proposal of out side dumping was given and approved accordingly. the mine was open on 01.10.2018. A violation letter in this regard has issued by this on 23.12.2019 and in compliance of the violation, the lesee has submitted modification in the aproced document to this office and the same is under process.
4b	Location of topsoil , OB & mineral reject dumps	Yes, Waste dump prposal given out side of the lease area	Waste dump carried out in the SE corner of the lease area over an extent of 0.17 ha.	The mining plan was approved on 03.12.2009 based on the LOI issued for the said lease area, and proposal of out side dumping was given and approved accordingly. the mine was open on 01.10.2018. A violation letter in this regard has issued by this on 23.12.2019 and in compliance of the violation, the lesee has submitted modification in the aproced document to this office and the same is under process.

4c	Number of dumps within lease area and outside lease area	Yes, Waste dump proposal given outside of the lease area	Waste dump carried out in the SE corner of the lease area over an extent of 0.17 ha.	
4d	Location of dumps w.r.t ultimate pit limit (Rule 16)	Yes, Waste dump proposal given outside of the lease area	Waste dump carried out in the SE corner of the lease area over an extent of 0.17 ha.	
4e	Number of active & alive dumps	Nil	One	
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	Yes, constructed, along the waste dump carried out in the SE corner of the lease area over an extent of 0.17 ha.	
4i	Length of Retaining wall or garland drain all along dump	N.A.	Garland drain 100m	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management	The mining plan was approved on 03.12.2009 based on the LOI issued for the said lease area, and proposal of out side dumping was given and approved accordingly. the mine was open on 01.10.2018. A violation letter in this regard has issued by this on 23.12.2019 and in compliance of the violation, the lessee has submitted modification in the approved document to this office and the same is under process.		

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	The mine is not mature till date for backfilling. So there was no proposal for backfilling in the reporting year.
5b	Area under backfilling of mined out area in Sq. mtr	Nil	Nil	The mine is not mature till date for backfilling. So there was no proposal for backfilling in the reporting year.
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	Nil	Nil	The mine is not mature till date for backfilling. So there was no proposal for backfilling in the reporting year.
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	The mine is not mature till date for backfilling. So there was no proposal for backfilling in the reporting year.
5e	General remarks of inspecting officer on backfilling, reclamation etc	The mine was opened on 01.10.2018 and the mine is not mature till date. So. Scope of backfilling was not in 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 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) 400 nos saplings within the lease area) ii) 0.40 Ha iii) Green belt development	i) 500 nos saplings (100 in out side MI area and 400 within the lease area) ii) 0.40 Ha iii) Green belt development	Rehabilitation yet to be started as mineral is still exist
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.		

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)	N.A.	N.A.	
8b	Concurrent use or storage of topsoil	N.A.	N.A.	
8c	Separate dumps for overburden , waste rock , rejects and fines(Rule 33)	N.A.	N.A.	
8d	Use of overburden , waste rock, rejects and fines dumps for restoring the land to its original use	N.A.	N.A.	
8e	Phased restoration , reclamation and rehabilitation of lands affected by mining operations(pits, dumps etc)	N.A.	N.A.	
8f	Baseline information on existence of plantation & additional plantation done(Rule 41)	400 nos saplings within the lease area	500 nos saplings (100 in out side MI area and 400 within the lease area to develop the green belt)	
8g	Survival rate	N.A.	65%	
8h	Water sprinkling on roads to control airborne dust		Yes	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Lessee has planted 40 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 emission. This sustains the aesthetic beauty of the mine area. The mine was opened on 01.10.2018.
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Compliance of Rule 45

S.N.	Item	Comments		Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Return submitted upto	Submitted upto Jan'20	
		Annual Return submitted upto	Submitted upto FY 2018-19	
S.N	Item	Details Given in Annual Return		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	1. Sri Shishupal Singh- Mines Manager. 2. Sri Amrit Pegu - Mining Engineer. 3. Sri Chandrasekhar Sharma- Geologist.	1. Sri Shishupal Singh- Mines Manager. 2. Sri Amrit Pegu - Mining Engineer. 3. Sri 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 = Nil Others = Nil Total = 4.245 ha	Pit = 0.39 ha Dump = 0.17 ha Road = 0.11 ha Others = 0.40 ha Total = 1.07 ha	
9d	Scrutiny of Annual return on afforestation	Saplings:- 1. Within lease- 400 2. Outside Lease- 100 Survival rate 1. within Lease - 70.00% 2. Outside Lease - 65.00%	Saplings:- 1. Within lease- 400 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- 1753 Tons Dispatch- 1753 Tons. Closing Stock- Nil There is no separate stock for graded ore	Opening Stock- Nil Production- 1753 Tons Dispatch- 1753 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- 508.96	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 -----03 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 :-

Violation under rule 11(1) and 33 were pointed out and violation letter has been issued to the lessee on 23.12.2019. Lessee has submitted compliance that they will submit modification of approved mining plan to comply the cited violation. Accordingly modification of mining plan has been submitted to this office and same is under process. the said mine was opened on 01.10.2018 and the said inspection is the first inspection after submitted opening notice.


 Name of inspecting officer with designation and date