

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-14

Mine code : 38MEG03015

Date of Inspection: : 13.12.2019

General

S.N.	Particulars	
1	Name of the Mine	Umsoo Mootang Limestone Mines Block-V
2	Total Lease Area(Ha) with breakup of Non-forest and forest land	128.52 hectares
3	Mine code	38MEG03015
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	14.12.2016
15	Date of Execution	21.12.2016
16	Date of opening of Mine	12.07.2017
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	Sh. 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
21	Name of the Mine agent with Address, phone, email,fax number and date of appointment	Sh. 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	Sh.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
23	Name of the Mining Engineer , Qualification and total experience with Address , phone, email, fax number and date of appointment in mine	Sh.Shishupal Singh, 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	Sh.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	1. MP-319(3)/2009 MCCM(CZ)/MP-33 date 29.01.2010 2. MOM-IBM/GHY/MEG/JNH/LST/MP-84 date 29.08.17
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	5 Borehole	4 Borehole	Exploration continued and not completed within time limit
1b	Exploration over lease area for Geological axis 1 or 2	128.52	123.36	Exploration was continued within the lease area, but lessee could not achieved the targeted proposal within the same financial year. A violation letter in this regard has already issued to the lessee, in compliance of the same the lessee has submitted a modification proposal of MP to this office for its approval and the same is under process.
1c	Exploraion Agency & Expenditure in lakh Rupees during the year	15 Borehole	M/s Synergy Geotech Pvt. Ltd. Nagpur and Rs.32.29 Lakh	7 no of Boreholes were drilled with 627.2 meterage of core during the reporting period.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	28.04	
1e	Balance reserves as on 01.04.2019 in Million Ton	-	8732459 tons	
1f	General remarks of inspecting officer on geology, exploration etc.	Exploration was continued within the lease area, but lessee could not achieved the targeted proposal within the same financial year. A violation letter in this regard has already issued to the lessee, in compliance of the same the lessee has submitted a modification proposal of MP to this office for its approval and the same is under process.		

Development

S.N.	Items	Proposals	Actual work	Remarks
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2a	Location of development w.r.t lease area	Latitude N 25° 11' 0.4"- N 25° 11' 10.2" Longitude E 92° 21' 28.9 "- E 92° 20' 52.8"	X: 2785898-2785323 & Y: 434285-434952	Deviation in the location of the proposed development is due to heterogeneous quality of the deposit. However A violation letter in this regard has already issued to the lessee, in compliance of the same the lessee has submitted a modification proposal of MP to this office for its approval and the same is
2b	Separate benches in topsoil , overburden and mineral(Rule 15)	Yes, OB bench: 717mRL-682 mRL, Mineral: 710 mRL-673 mRL.	Yes, OB bench: 693mRL-678 mRL, Mineral: 678 mRL-654 mRL..	Deviation in the location of the proposed development is due to heterogeneous quality of the deposit
2c	Stripping ratio or ore to OB ratio	1: 1.87	1: 0.98	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	2420000	1227926	Deviation in OB generation is due to heterogeneous quality of
2f	General remarks of inspecting officer on development of pit w.r.t type of deposit etc.	Deviation in the location of the proposed development, production of ore and generation of OB is due to heterogeneous quality of the deposit. However A violation letter in this regard has already issued to the lessee, in compliance of the same the lessee has submitted a modification proposal of MP to this office for its approval 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	1290272 tones	1244150 tones	
3c	Recovery of salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	Nil	204369 Ton	Deviation in mineral reject generation is due to heterogeneous quality of the deposit.
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	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: 717mRL-682 mRL, Mineral: 710 mRL-673 mRL.	Yes, OB bench: 693mRL-678 mRL, Mineral: 678 mRL-654 mRL..	Deviation in the location of the proposed development is due to heterogeneous quality of

3m	Total area covered under excavation / pits in Hec.	17.85 Ha.	17.85 Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:1.87	1: 0.98	
3o	Total area put in use under different heads at the end of year in Hec.	Pit = 17.85 ha Dump = 5.73 ha Mineral Storage = 3.21 ha Magazine = 0.6 ha Others = 0.3 ha Total = 27.69 ha	Pit = 17.85 ha Dump = 5.73 ha Mineral Storage = 3.21 ha Magazine = 0.6 ha Others = 0.3 ha Total = 27.69 ha	
3p	Production of ROM mineral during last five year, as applicable in MT (Last Two Years)	Achived 1st Year (2016-17) = Nil 2nd Year (2017-18) = 876581 tons 3rd Year (2018-19) = 1290272 tons	Achived 1st Year (2016-17) = Nil 2nd Year (2017-18) = 54339 tons 3rd Year (2018-19) = 1244150 tons	The mine was opened on 10.07.2017
3q	General remarks of inspecting officer on method of mining etc	Deviation in the location of the proposed development, production of ore and generation of OB is due to heterogeneous quality of the deposit. However a violation letter in this regard has already issued to the lessee, in compliance of the same the lessee has submitted a modification proposal of MP to this office for its approval 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	In addition to the proposal a OB dump was carried out in the western side of the working pit	The lessee has carried out one number of additional OB dump was carried out in the western side of the working pit within the lease area. A violation letter in this regard has already issued to the lessee, in compliance of the same the lessee has submitted a modification proposal of MP to this office for its approval and the same is under process.
4b	Location of topsoil , OB & mineral reject dumps	Latitude N 25 ⁰ 11' 6.0"- N 25 ⁰ 10' 53.6" Longitude E 92 ⁰ 21' 52.2"- E 92 ⁰ 21' 20.5"	X: 2785469-2785157 & Y: 435192-435750	The lessee has carried out one number of additional OB dump was carried out in the western side of the working pit within the lease area. A violation letter in this regard has already issued to the lessee, in compliance of the same the lessee has submitted a modification proposal of MP to this office for its approval and the same is under process.
4c	Number of dumps within lease area and outside lease area	1	2	Within the lease area
4d	Location of dumps w.r.t ultimate pit limit (Rule 16)	Yes, Waste dump prposal given within UPL and within lease area	Yes, Waste dump prposal given within UPL and within lease area	
4e	Number of active & alive dumps	1	2	
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps stabilished	Nil	Nil	

4h	Whether Retaining wall or garland drain all along dump	Yes Proposed: Retaining wall: 0.02 ha Garland drain: 0.04 ha	Yes carried out: Retaining wall : 50 ma Garland drain : 200m	
4i	Length of Retaining wall or garland drain all along dump	Yes Proposed: Retaining wall: 0.02 ha Garland drain: 0.04 ha	Yes carried out: Retaining wall : 50 ma Garland drain : 200m	
4j	Number of settling ponds	1	1	
4k	Specific comments of inspecting officer on waste dump management	The lessee has carried out one number of additional OB dump was carried out in the western side of the working pit within the lease area. A violation letter in this regard has already issued to the lessee, in compliance of the same the lessee has submitted a modification proposal of MP to this office for its approval 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 10.07.2017 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 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) 500 nos saplings within the lease area ii) 0.50 Ha iii) Green belt development	i) 1200 nos saplings (700 in out side MI area and 500 within the lease area) ii) 0.50 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.		

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	Produced ROM has directly sent to the	
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)	Yes	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)	500 nos saplings within the lease area	1200 nos saplings (700 in out side MI area and 500 within the lease area to develop the green belt)	
8g	Survival rate	N.A.	65%	
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	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Lessee has planted 500 no of sapling within and along the lease boundary, 700 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.		

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 Shishupal Singh- Mining Engineer. 3. Sri Chandrasekhar Sharma- Geologist.	1. Sri Shishupal Singh- Mines Manager. 2. Sri Shishupal Singh- 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 = 17.85 ha Dump = 5.73 ha Mineral Storage = 3.21 ha Magazine = 0.6 ha Others = 0.3 ha Total = 27.69 ha	Pit = 17.85 ha Dump = 5.73 ha Mineral Storage = 3.21 ha Magazine = 0.6 ha Others = 0.3 ha Total = 27.69 ha	
9d	Scrutiny of Annual return on afforestation	Saplings:- 1. Within lease- 500 2. Outside Lease- 700 Survival rate 1. within Lease - 70.00% 2. Outside Lease - 65.00%	Saplings:- 1. Within lease- 500 2. Outside Lease- 700 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- 1244150 tons Dispatch- 1244150 tons. Closing Stock- Nil There is no separate stock for graded ore	Opening Stock- Nil Production- 1244150 tons Dispatch- 1244150 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- Rs. 328.20	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. In compliance of the violation letter, Lessee has submitted modification of mining plan with a revised proposal to this office for its approval and the same is under process. No violation has pointed out in the 1st inspection carried out on 10.11.2019.


 Name of inspecting officer with designation and date