

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-1

Mine code : 38MEG03001

Date of Inspection: 05.06.2019

General

S.N.	Particulars	
1	Name of the Mine	Lumshnong Limestone Mine
2	Total Lease Area(Ha) with breakup of Non-forest and forest land	Non Forest- 4.20 Ha. Forest Land- 0.00 Ha.
3	Mine code	38MEG03001
4	IBM Registration Number under rule 45 of MCDR , 1988	IBM/7036/2011
5	Name of the lessee,Address,phone, email and fax number	M/s Meghalaya Minerals & Mines Ltd, Vill & PO Lumshnong, East Jaintia Hills District, Meghalaya-793210
6	Village	Lumshnong
7	Elaka	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 Railway Station
14	Date of Grant of Mining Lease	11.10.2001
15	Date of Execution	03.04.2002
16	Date of opening of Mine	09.05.2002
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	Lamshwa Kyndoh, Vill & PO Lumshnong, East Jaintia Hills District, Meghalaya - 793210 (Email: mmm12001@gmail.com & DOA 14/10/2005)
21	Name of the Mine agent with Address, phone, email,fax number and date of appointment	Mukesh Agarwal, Debendra Nagar Jhoom Basti, Dist Karimganj (Assam) -788803 (Email: magarwal.bvcl@gmail.com & DOA 09.10.2005)
22	Name of the Mines Manager with Address, phone, email,fax number and date of appointment	Awdhesh Kumar Pathak, Vill & PO Lumshnong, East Jaintia Hills District, Meghalaya -793210 (Email: awdhesh.pathak22@gmail.com /mmm12001@gmail.com & DOA- 01/11/2014)
23	Name of the Mining Engineer , Qualification and total experience with Address , phone, email, fax number and date of appointment in mine	Saroj Rajkumar, BE in Mining, Total Experience- 5 years. (DOA - 24.12.2018)
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44	Geologist, Shri. Champak Nath, Msc. Geology (DOA-08.04.2019) and Mining Engineer, Shri. Saroj Rajkumar, BE in Mining (DOA - 24.12.2018) have been appointed in mines as per rule and carrying out their duties properly
25	Date of Approval of Mining plan/Modified Mining plan with five year period & specific condition in approval letter, if any	Mining Plan approval Letter No. 314(3)/2001-MCCM(C)/MP-9, dated 23.01.2002
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five year period & specific condition in approval letter, if any	RoMP approved on 27.01.2017
27	Mineral(s) granted in lease and proved for mining	Limestone

28	Method of Mining(Opencast, Underground)	Opencast
29	Category (Fully Mechanised, Others or Manual)	A- Fully Mechanised
30	Captive/Non Captive	Non-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	Total 4.20 ha already explored under G1	Total 4.20 ha already explored under G1	
1c	Exploration 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		Total - 815666 MT (111)- 590878 MT (122)- 224788 MT	
1f	General remarks of inspecting officer on geology, exploration etc.	The total ML area of 4.20 Ha already explored under G1 category.		

Development

S.N.	Items	Proposals	Actual work	Remarks
2a	Location of development w.r.t lease area	Within the main pit of the lease area with advancement of existing benches towards north.	Between N 25° 09' 53.41" - N25°09'56.15" to E92°22'44.91" - E92°22'49.19"	
2b	Separate benches in topsoil , overburden and mineral(Rule 15)	No top soil/ OB benches as the area is totally devoid of it. All the benches are in mineral. The height & width of the benches in mineral are given below: 6mtr height/3 mtr width for benches in the western side of the lease area upto 481mRL as per permission taken from DGMS and 6mtr height/ 6mtr width in all other areas.	No top soil/ OB benches as the area is totally devoid of it. All the benches are in mineral. 6mtr height/ 3 mtr width in mineral benches at the western side of the lease area upto 481mRL as per permission has been taken from DGMS and 6mtr height/ 6mtr width in all other areas.	
2c	Stripping ratio or ore to OB ratio	1:0.0	1:0.0	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	Nil	Nil	
2f	General remarks of inspecting officer on development of pit w.r.t type of deposit etc.	The lessee has complied the proposal of 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	179915	176088	
3c	Recovery of salable/usable mineral from ROM production	100% salable	100% salable	
3d	Quantity of mineral reject generation	0	0	
3e	Grade of mineral reject generation and threshold value declared	Mineral rejects-Nil, Threshold value: 34% CaO	Mineral rejects-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 32 mm dia as well as 115 mm dia. Drills. Blasting proposed with LD explosives of 25mm dia. & 83mm dia. with detonating cord & milli second delay detonators.	Jack Hammer 32 mm dia as well as 115 mm dia. Drills. Blasting proposed with LD explosives of 25mm dia. & 83mm dia. with detonating cord & milli second delay	
3k	Provision of mining machineries in mineral benches	Yes, Shovel and Dumper combination. L&T-PC200 (Backhoe), Hyva- 30 ton	Yes, Shovel and Dumper combination. L&T-PC200 (Backhoe), Hyva- 30 ton	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No top soil/ OB benches as the area is totally devoid of it. All the benches are in mineral. The height & width of the benches in mineral are given below: 6mtr height/3 mtr width for benches in the western side of the lease area upto 481mRL as per permission taken from DGMS and 6mtr height/ 6mtr width in all other areas.	No top soil/ OB benches as the area is totally devoid of it. All the benches are in mineral. 6mtr height/ 3 mtr width in mineral benches at the western side of the lease area upto 481mRL as per permission has been taken from DGMS and 6mtr height/ 6mtr width in all other areas.	
3m	Total area covered under excavation / pits	3.001 Ha	3.001Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:0.0	1:0.0	
3o	Total area put in use under different heads at the end of year	1. Pit-3.001 Ha. 2. Roads- 0.543 Ha. 3. Green Belt- 0.28 Ha.	1. Pit-3.001 Ha. 2. Roads- 0.543 Ha. 3. Green Belt- 0.28 Ha.	
3p	Production of ROM mineral during last five year, as applicable	2014-15: 92145.000 tons 2015-16: 179720.000 tons 2016-17: 179270.830 tons 2017-18: 180383.000 tons 2018-19: 179915.000 tons Total: 811433.000 tons	2014-15: 92145.000 tons 2015-16: 52515.000 tons 2016-17: 162894.830 tons 2017-18: 179883.710 tons 2018-19: 176088.000 tons Total: 663526.540 tons	
3q	General remarks of inspecting officer on method of mining etc	The lessee has carried out the proposal and achieved the targeted production.		

Solid Waste Management- Dumping

S.N.	Items	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject(Rule 32, 33)	Nil	Nil	
4b	Location of topsoil , OB & mineral reject dumps	Nil	Nil	
4c	Number of dumps within lease area and outside lease area	Nil	Nil	
4d	Location of dumps w.r.t ultimate pit limit (Rule 16)	Nil	Nil	
4e	Number of active & alive dumps	Nil	Nil	
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	
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	There was no proposal for generation of waste during the reporting year. Lessee has complied the proposal.		

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 was no proposal for backfilling 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	Annual PMCP report to be submitted for 2017-18 and yet to be submit for 2018-19 as on date of inspection	
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	ii) 0.065 ha 160 nos Nos. N.A. Rs.30000/-	i) Nil iii) i) Nil ii) 0.012 Ha iii) 20 Nos. iv) 2000 Nos. v) N.A vi) 1500/-	
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	Not proposed for reclamation and rehabilitation by backfilling within the lease area.	There was no scope for reclamation and rehabilitation during the reporting year	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated(ha) iii) Method of rehabilitation	Not proposed, as there is no waste land within the lease area.	There is no waste land within the lease area, hence there is no scope for rehabilitation of waste land during the reporting year	
6e	Compliance of Environmental monitoring(core zone & buffer zone)	Air, Noise and Water quality (each 2 locations) monitoring 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	179915.000 tons proposed for production for the year 2018-19	163423 tons dispatched during the reporting year	
7b	Method of grade -wise mineral sorting i.e manual or mechanical	ROM will be dispatched directly from the quarry head	ROM dispatched directly from the mine quarry head	
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)	Nil	There was no top soil generation during the reporting year	
8b	Concurrent use or storage of topsoil	Nil	Nil	
8c	Separate dumps for overburden , waste rock , rejects and fines(Rule 33)	Nil	Nil during the reporting yaer	
8d	Use of overburden , waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil during the reporting yaer	
8e	Phased restoration , reclamation and rehabilitation of lands affected by mining operations(pits, dumps etc)	Nil	Nil during the reporting yaer	
8f	Baseline information on existence of plantation & additional plantation done(Rule 41)	160 sapling	100 Sapling Within Lease- 20 Nos. Outside Lease- 80 Nos	
8g	Survival rate	70%	45%	
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 100 no of sapling within and along the lease boundary, carried out water sprinkling inside the mine over haul roads to minimize the fugitive dust emmission. 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	April-2019 as on dae of inspection	
		Annual Return submitted upto	2018-19 as on report submission	
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. A.K Pathak- Mines Manager. 2. Saroj Rajkumar- Mining Engineer. 3. Champak Nath- Geologist.	Mines manager, Mining engineer and Geologist were present during the inspection. Date of appointment: Manager: 01.11.2014 Mining Engineer: 24.12.2018 Geologist: 08.04.2019	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	1. Pit-3.001 Ha. 2. Roads- 0.543 Ha. 3. Green Belt- 0.28 Ha.	Complied as per the proposal of approved document; 1. Pit-3.001 Ha. 2. Roads- 0.543 Ha. 3. Green Belt- 0.28 Ha.
9d	Scrutiny of Annual return on afforestation	1. Area: 0.065 Ha 2. Saplings: 160 Nos.	1. Within Lease- 20 Nos. CUM- 2000 nos. 2. Outside Lease- 80 Nos. CUM- 1968 Nos.
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- 12092.91 MT. Production- 176088 MT. Dispatch- 163423 MT. Closing Stock- 24757.91 MT. There is no separate stock for graded ore	Opening Stock- 12092.91 MT. Production- 176088 MT. Dispatch- 163423 MT. Closing Stock- 24757.91 MT There is no separate stock for graded ore
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex Mine Price- 483.55	Cross checked from the returns by back calculating it from sale value less deduction less pulverisation cost and found it to be correct
9i	Scrutiny of Annual return on fixed assets	Rs. 20638735	Verified with Asset register during inspection & found it to be correct.
9k	Scrutiny of Annual return on mining machineries	1. Backhoe- 2 Nos. 2. Dumpers- 3 Nos. 3. Drills- 2 Nos. 4. Bulldozer - 01 Nos. 5. Air Compressor- 02 Nos	Verified from submitted annual machinery statement; 1. Backhoe- 2 Nos. 2. Dumpers- 3 Nos. 3. Drills- 2 Nos. 4. Bulldozer - 01 Nos. 5. Air Compressor- 02 Nos

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

No violation pointed out. Compliance of violation followed by show-cause under Rule 11(1) dated 15.11.2018 has been complied vide letter dated 21.11.2018, received on 04.12.2018.


01/07/2019

Name of inspecting officer with designation and date