

**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: 07.09.2022

**1.0 GENERAL**

SN	Particulars	Details
1	Name of the Mine	LUMSHNONG LIMESTONE MINES
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	4.20 Ha. Forest: - Nil, Non-Forest: - 4.20 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 Limited Lumshnong Khliehriat 793210.
6	Village	Lumshnong
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	03/04/2002
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	Nil
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	Lamshwa Kyndoh M/S Meghalaya Minerals & Mines Limited Lumshnong Khliehriat 793210,
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mukesh Agrawal Badarpur Devendra Nagar S. Road Jhum Basti Assam 788803
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Awdhesh Kumar Pathak M/S Meghalaya Minerals & Mines Limited Lumshnong Khliehriat 793210, Date Of Appointment-1/11/2014
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Ankush Samrutwar M/S Meghalaya Minerals & Mines Limited Lumshnong Khliehriat 793210, Experience- 1 Year 1 Month Date Of Appointment- 21/12/2020
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes, <b>Geologist:</b> Amar Mishra Experience: 5 years Date Of Appointment: 20.12.21

SN	Particulars	Details
		<b>Mining Engineer</b> : Ankush Samrutwar Experience- 1 Year 1 Month Date Of Appointment- 21/12/2020
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Review of Mining Plan approved on 18.04.2022
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Scheme of Mining approved on 27.05.2008
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)	Fully Mechanised
30	Captive/Non Captive	Non- Captive

**Scientific Mining:** Compliance of proposals of approved mining plan/scheme of mining. –

### Exploration

SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	2 nos of core Drilling (45m each) proposal for exploration was made in the last approved RoMP	4 Core Drilling driven in the year 2022 having depth 2 hole 45 meter one hole 20 meter and one hole 21.4 meter	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	234000	Rs. 341640	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserves as on 01.04.2022	535131 MT	535131 MT	
1f	General remarks of inspecting officer on geology, exploration etc.	The lessee has submitted Form -I for 04 nos boreholes covering entire lease area upto G-1 level (lateral extension). Further drilling has been envisaged in 2025-26.		

### 2.0 DEVELOPMENT

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	<b>Easting</b> 437368 to 437608 <b>Northing</b> 2783519 to 2783662	<b>Easting</b> 437366 to 437568 <b>Northing</b> 2783225 to 2783560	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Nil	Nil	
2c	Stripping ratio or ore to OB ratio	1 : 00	1 : 00	
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 carried out development per proposal envisaged in the RY.		

### 3.0 EXPLOITATION

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	180083 MT	97250 MT	Mine was under suspension till 16.07.2021
3c	Recovery of saleable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral reject generation and threshold value declared	Threshold Value 34% CaO 5% MgO	Threshold Value 34% CaO 5% MgO	
3f	Quantity of sub-grade mineral generation	No proposal	Nil	
3g	Grade of sub-grade mineral generation	No proposal	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	No proposal	Nil	
3j	Provision of drilling & blasting in mineral benches	Deep hole of Diameter 115mm using wagon drill of Atlascopoco Compressor 600 and Drill D-45. Blasting by using 83mm dia cartridge Kelvex-600, Power Gel C, Starprime and Amonium nitrate fuel oil	Deep hole of Diameter 115mm using wagon drill of Atlascopoco Compressor 600 and Drill D-45. Blasting by using 83mm dia cartridge Kelvex-600, Power Gel C, Starprime and ANFO.	
3k	Provision of mining machineries in mineral benches	Yes	Yes	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
3m	Total area covered under excavation/ pits	3.139 ha	3.139 Ha.	
3n	Ore to OB ratio for the pit/mine during the year	1:00	1:00	
3o	Total area put in use under different heads at the end of year	3.139 Ha.	3.139 Ha.	
3p	Production of ROM mineral during last five-year period, as applicable	2017-18-180383 MT 2018-19-179915 MT 2019-20-179898 MT 2020-21-180258 MT 2021-22-180083 MT	2017-18-179883 MT 2018-19-176088 MT 2019-20-150705 MT 2020-21-80875 MT 2021-22-97250 MT	Mine was under suspension till 16.07.2021 in the FY 2021-22.

3q	General remarks of inspecting officer on method of mining etc.	Production has been done by the lessee as per the proposed proposal in the reporting year. Mine was under suspension till 16.07.2021 in the FY 2021-22.
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#### 4.0 SOLID WASTE MANAGEMENT-DUMPING

SN	Item	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 dumps	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	The lease area is devoid of overburden.		

#### 5.0 SOLID WASTE MANAGEMENT-BACKFILLING

SN	Item	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 (Rule 32)	Nil	Nil	
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	The area is not yet matured and therefore not ready for backfilling.		

#### 6.0 PROGRESSIVE MINE CLOSURE PLAN

SN	Item	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 08.09.2022	
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	i) NA ii) NA iii) 170 iv) 2400 Nos. v) Nil vi) Rs. 50000.00	i) NA ii) 0.2725 Ha. iii) 280 Nos. iv) 2170 Nos. v) Nil vi) Rs. 132000.00	

SN	Item	Proposals	Actual work	Remarks
	iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year			
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	ii) 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) 7.5mtrs Barrier Area ii) Nil iii) Nil	i) 7.5 mtrs Barrier Area (ii) Nil (iii) Nil	Plantation done in safety zone(280 Nos.)
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	Monitoring is being carried out , Within the limits	
6f	General remarks of inspecting officer on PMCP compliance & progressive	The lessee has carried out afforestation and environmental monitoring as per the proposal envisaged during the reporting year.		

## 7.0 MINERAL CONSERVATION

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	180258	97250	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines	Not proposed	Nil	
7d	Any beneficiation process at mines	Not proposed	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No proposal for mineral beneficiation was proposed during the reporting year. Lessee has carried out work as per proposal.		

## 8.0 ENVIRONMENT

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Nil	
8b	Concurrent use or storage of topsoil	Nil	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Nil	Nil	
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	Nil	Nil	

	rehabilitation of lands affected by mining operations (Pits, dumps etc)			
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	170.	175	Plantation was carried out in the Safety zone
8g	Survival rate	No proposals	75.00%	
8h	Water sprinkling on roads to control airborne dust	Water Sprinkling on Haul roads was 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 are	Lessee has planted 175 nos. of saplings within the mining lease. Water sprinkling has been carried out in the haul roads to minimize the fugitive dust emission. This sustains the aesthetic beauty of the mine area.		

#### 9.0 COMPLIANCE OF RULE 45

SN	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Return submitted up to : Aug 2022 Annual Return submitted for FY 2020-21		
SN	Item	Details given in A.R.	Observation of I/O	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	<b>Mining Engineer:</b> Ankush Samrutwar <b>Geologist:</b> Amar Mishra <b>Manager:</b> Awdhesh Kumar Pathak	<b>Mining Engineer:</b> Deepak kumar <b>Geologist:</b> Amar Mishra <b>Manager:</b> Awdhesh Kumar Pathak	New Mining Engineer appointed and notice of appointment submitted on 13.09.2022 after Inspection.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit: 3.170	Pit: 3.170	
9d	Scrutiny of Annual return on afforestation	WML: 175;	WML : 175	
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: 40454.9 Production: 97250 MT Dispatch: 98262 MT Closing Stock:39442.91 There is no separate stock for graded ore	Opening Stock: 40454.9 Production: 97250 MT Dispatch: 98262 MT Closing Stock:39442.91 There is no separate stock for graded ore	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-mine price: 517.43	Ex-mine price: 517.43	
9i	Scrutiny of Annual return on fixed assets	Rs.40457577.00	Verified from the asset register and found correct.	

9k	Scrutiny of Annual return on mining machineries	1)Back Hoe: 04 2)Dumper :4 3)Air Compressor: 01 4)Dozer :1	1)Back Hoe: 04 2)Dumper :4 3)Air Compressor: 01 4)Dozer :1	
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10 - Details of violations observed during current inspection and compliance position of earlier violation pointed out:-

1. Earlier pointed out violation has been complied.
2. Violation pointed out in the current inspection are as under:

*Vikas*  
29/11/22

(Vikas Kumar), ACOM  
Name of Inspecting Officer with Designation and Date