

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

Mine file No : IBM/GHY/MEG/EKH/LST-3

Mine code : 38MEG04005

Date of Inspection: : 13.02.2020

General

S.N.	Particulars	
1	Name of the Mine	Nongtraï Limestone Mine
2	Total Lease Area(Ha) with breakup of Non-forest and forest land	100.00 Hect , Forest : 100.00 Hect Non Forest : NIL
3	Mine code	38MEG04005
4	IBM Registration Number under rule 45 of MCDR , 1988	IBM/7411/2011
5	Name of the lessee,Address, phone, email and fax number	Lafarge Umiam Mining Pvt. Ltd.
6	Village	Nongtraï
7	Taluka/Mandal	Mawsynram
8	District	East Khasi Hills
9	Pincode	793112
10	State	Meghalaya
11	Post office	Shella
12	Nearest police station	Shella
13	Nearest Railway station	Guwahati
14	Date of Grant of Mining Lease	29.08.2001
15	Date of Execution	03.01.2002
16	Date of opening of Mine	28.03.2003
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	Sri Shivesh Kumar Sinha M/s Lafarge Umiam Mining Private Limited, Hotel Polo Tower, Polo Ground, Oakland Road, Shillong, East Khasi Hills, Meghalaya-793001. Phone: +91 364 2501115, Email: shivesh.sinha@lafargeholcim.com
21	Name of the Mine agent with Address, phone, email,fax number and date of appointment	Sri Pramod Kumar Singh M/s Lafarge Umiam Mining Private Limited, Hotel Polo Tower, Polo Ground, Oakland Road, Shillong, East Khasi Hills, Meghalaya-793001. Phone: +91 364 2501115, Email: pramod.kumar@lafargeholcim.com
22	Name of the Mines Manager with Address, phone, email,fax number and date of appointment	Sri Atul E. Wadettiwar M/s Lafarge Umiam Mining Private Limited, Hotel Polo Tower, Polo Ground, Oakland Road, Shillong, East Khasi Hills, Meghalaya-793001. Phone: +91 3642 501115, Email: atul.wadettiwar@lafargeholcim.com
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Sri Atul E. Wadettiwar B.Tech.(Mining), More than 10 years of Experience M/s Lafarge Umiam Mining Private Limited, Hotel Polo Tower, Polo Ground, Oakland Road, Shillong, East Khasi Hills, Meghalaya-793001. Phone: +91 3642 501115, Email: atul.wadettiwar@lafargeholcim.com

24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44	Yes, Geologist- Sri Padam Prasad Sharma Date of appointment : 12.02.2013. Qualification : M.Sc.(Geology), More than 12 years of Experience Mining Engineer - Sri Atul E. Wadettiwar Date of appointment : 30-09-2013 Qualification : B.Tech (Mining), More than 12 years of Experience
25	Date of Approaval of Mining plan/Modified Mining plan with five year period & specific condition in approaval letter, if any	Review of Mining Plan was approved on 17-11-2017 for 100.00 ha .
26	Date of Approaval of Scheme of Mining/Modified Scheme of Mining with five year period & specific condition in approaval letter, if any	NA
27	Mineral(s) granted in lease and proved for	Limestone
28	Method of Mining(Open cast, Underground)	Open cast
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 (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	
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	The entire area has been covered laterally, but to know the depth of mineralization proposal is given in approved MP for exploration in the year 2022-23.
1e	Balance reserves as on 01.04.2019		88.74 Million Tonnes	
1f	General remarks of inspecting officer on geology, exploration etc.	The entire area has been covered laterally, but to know the depth of mineralization proposal is given in approved MP for exploration in the year 2022-23.		

Development

S.N.	Items	Proposals	Actual work	Remarks
2a	Location of development w.r.t lease area	Eastern side of the Pit. Location: E361100 N2787100	Eastern side of the Pit. Location: E361100 N2787100	
2b	Separate benches in topsoil , overburden and mineral(Rule 15)	No topsoil and overburden present.	No topsoil and overburden present. Benching in Limestone is maintain at 10 mts maximum height with minimum 25-30 mtrs bench width	
2c	Stripping ratio or ore to OB ratio	NA	NA	No topsoil and overburden present within the lease area.

2d	Quantity of topsoil generation in m ³	Nil	Nil	No topsoil present. Minor quantity of Trapped soil generated is stored in designated shed for uses in Nursery.
2e	Quantity of overburden generation in m ³	Nil	Nil	No overburden present within the lease area.
2f	General remarks of inspecting officer on development of pit w.r.t type of deposit etc.	The lessee has carried out the development as per the proposal envisaged during the reporting year. As there was no OB and top soil presently, generation of top soil and OB was nil.		

Exploitation

S.N.	Items	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	2821765 MT	2039856 MT	
3c	Recovery of salable/usable mineral from ROM production	2821765 MT	2039856 MT	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral reject generation and threshold value declared	NA	NA	
3f	Quantity of sub-grade mineral generation	NA	NA	
3g	Grade of sub-grade mineral generation	NA	NA	
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	Drilling is being carried out by hydraulically and pneumatically operated 115 mm dia DTH drilling machines. Conventional blasting using ANFO/Slurry and high explosives with use of milli second delay/ NONEL and or Electronics Detonator to prevent the fly rocks, noise and to reduce ground vibrations.	Yes, Drilling is being carried out by hydraulically and pneumatically operated 115 mm dia DTH drilling machines. Conventional blasting using ANFO/Slurry and high explosives with use of milli second delay/ NONEL and or Electronics Detonator to prevent the fly rocks, noise and to reduce ground vibrations.	
3k	Provision of mining machineries in mineral benches	The hydraulic excavators of 2.45 m ³ to 1.8 m ³ bucket capacity are presently being used for loading of limestone and transport of limestone by tippers to crusher.	Yes, the hydraulic excavators of 2.45 m ³ to 1.8 m ³ bucket capacity are presently being used for loading of limestone and transport of limestone by tippers to crusher.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM.	No overburden, only Limestone benches area present within the lease area. Limestone Benches- 182 mRL to 140 mRL	No overburden, only Limestone benches area present within the lease area. Limestone Benches- 182 mRL to 140 mRL	
3m	Total area covered under excavation / pits	41.689 Ha	41.689 Ha	
3n	Ore to OB ratio for the pit/mine during the year	NA	NA	No overburden present in the mine

3o	Total area put in use under different heads at the end of year	Pit = 41.689 Ha Buildings & Road = 4.808 Ha Stock Area: 5.137 Ha Total = 51.63 Ha	Pit = 41.689 Ha Buildings & Road = 4.808 Ha Stock Area: 5.137 Ha Total = 51.63 Ha	
3p	Production of ROM mineral during last five year, as applicable	<u>Proposal</u> 2018-19 = 2821765 MT	<u>Actual</u> 2018-19 = 2039856 MT	
3q	General remarks of inspecting officer on method of mining etc	During the reporting year, 2039856 MT has been produce as against the proposal in MP of 2821765 MT. However the lessee has carried out exploitation as per the proposal furnished in the approved document but could not achieved 100% of the targeted proposal. As there was no OB and top soil, generation of top soil and OB was nil.		

Solid Waste Management- Dumping

S.N.	Items	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No proposal	Nil	As there was no OB and top soil within the ML area, generation and dumping of top soil, mineral reject and OB was nil.
4b	Location of topsoil , OB & mineral reject dumps	No proposal	Nil	As there was no OB and top soil within the ML area, generation and dumping of top soil, mineral reject and OB was nil.
4c	Number of dumps within lease area and outside lease area	No proposal	Nil	
4d	Location of dumps w.r.t ultimate pit limit (Rule 16)	No proposal	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	No proposal	Nil	
4i	Length of Retaining wall or garland drain all along dump	No proposal	Nil	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management	As there was no OB and top soil within the lease area, generation and dumping of top soil, mineral reject and OB was nil. Lessee has carried out the work as per the proposal during the reporting year.		

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	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 is not mature till date for backfilling. So there was no proposal for backfilling 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 on 20th June, 2019 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. 0.144 ha ii. 0.134 ha iii. 50 nos iv. 303 nos v. Nil vi. Rs.7575	i. 0.144 ha ii. 0.134 ha iii. 50 nos iv. 303 nos v. Nil vi. Rs.7575	A part of 160 m RL bench towards east of ML has reached to its ultimate position in part area. During 2017-18 and 2018-19, 0.134 ha and 0.01 ha area respectively is rehabilitated by afforestation.
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. NA iii. NA iv. NA v. NA vi. NA	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) A total of 700 nos proposed ii) 0.28 ha iii) Plantation	i) 776 nos saplings planted ii) 0.28 iii) Plantation	0.28 ha area within 7.5 barrier zone of ML and Block A have been planted for 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 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.
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Environment

S.N.	Items	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Nil	No proposal was envisaged for the reporting year.
8b	Concurrent use or storage of topsoil	Nil	Nil	No proposal was envisaged
8c	Separate dumps for overburden , waste rock , rejects and fines (Rule 33)	Nil	Nil	No proposal was envisaged for the reporting year.
8d	Use of overburden , waste rock, rejects and fines dumps for restoring the land to its original use.	Nil	Nil	No proposal was envisaged for the reporting year.
8e	Phased restoration , reclamation and rehabilitation of lands affected by mining operations (pits, dumps etc.)	Nil	Nil	No proposal was envisaged for the reporting year.
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	i) A total of 700 nos proposed ii) 0.28 ha iii) Plantation	i) 776 nos saplings planted ii) 0.28 iii) Plantation	0.28 ha area within 7.5 barrier zone of ML and Block A have been planted for green belt development.
8g	Survival rate	Nil	1. within Lease - 86.00% 2. Outside Lease -79.00%	
8h	Water sprinkling on roads to control airborne dust	Water Sprinkling on Haul roads were proposed.	Automated Water sprinkling along the haul road, Fogger in Crusher and by water tanker in pit and other area has been carried out.	A special provision of water cannon is used to suppress the dust before loading from the muck pile and in crusher platform
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	A part of 160 m RL bench towards east of ML has reached to its ultimate position in part area. During 2017-18 and 2018-19, 0.134 ha and 0.01 ha area respectively is rehabilitated by afforestation and 0.28 ha area within 7.5 barrier zone of ML and Block A have been planted for green belt development. Drilling machines are equipped with wet drilling arrangements/cyclone dust collectors/bag filters. This sustains the aesthetic 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'2020	
		Annual Return submitted upto	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. Atul A. Wadettiwar- Mines Manager. 2. Atul A. Wadettiwar- Mining Engineer. 3. Padam P Sharma- Geologist.	Geologist and Mining engineer were present during the inspection. Date of appointment: Manager: 30.09.2013 Mining Engineer: 30.09.2013 Geologist: 12.02.2013	

7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No such proposal for mineral beneficiation was proposed during the reporting year.
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Environment

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8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Nil	No proposal was envisaged for the reporting year.
8b	Concurrent use or storage of topsoil	Nil	Nil	No proposal was envisaged
8c	Separate dumps for overburden , waste rock , rejects and fines (Rule 33)	Nil	Nil	No proposal was envisaged for the reporting year.
8d	Use of overburden , waste rock, rejects and fines dumps for restoring the land to its original use.	Nil	Nil	No proposal was envisaged for the reporting year.
8e	Phased restoration , reclamation and rehabilitation of lands affected by mining operations (pits, dumps etc.)	Nil	Nil	No proposal was envisaged for the reporting year.
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	i) A total of 700 nos proposed ii) 0.28 ha iii) Plantation	i) 776 nos saplings planted ii) 0.28 iii) Plantation	0.28 ha area within 7.5 barrier zone of ML and Block A have been planted for green belt development.
8g	Survival rate	Nil	1. within Lease - 86.00% 2. Outside Lease -79.00%	
8h	Water sprinkling on roads to control airborne dust	Water Sprinkling on Haul roads were proposed.	Automated Water sprinkling along the haul road, Fogger in Crusher and by water tanker in pit and other area has been carried out.	A special provision of water cannon is used to suppress the dust before loading from the muck pile and in crusher platform
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area.	A part of 160 m RL bench towards east of ML has reached to its ultimate position in part area. During 2017-18 and 2018-19, 0.134 ha and 0.01 ha area respectively is rehabilitated by afforestation and 0.28 ha area within 7.5 barrier zone of ML and Block A have been planted for green belt development. Drilling machines are equipped with wet drilling arrangements/cyclone dust collectors/bag filters. This sustains the aesthetic beauty of the mine area.		

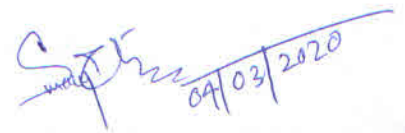
Compliance of Rule 45

S.N.	Item	Comments		Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Return submitted upto	Submitted upto Jan'2020	
		Annual Return submitted upto	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. Atul A. Wadettiwar- Mines Manager. 2. Atul A. Wadettiwar- Mining Engineer. 3. Padam P Sharma- Geologist.	Geologist and Mining engineer were present during the inspection. Date of appointment: Manager: 30.09.2013 Mining Engineer: 30.09.2013 Geologist: 12.02.2013	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit = 41.689 Ha Buildings & Road = 4.808 Ha Stock Area: 5.137 Ha Total = 51.63 Ha	Pit = 41.689 Ha Buildings & Road = 4.808 Ha Stock Area: 5.137 Ha Total = 51.63 Ha	
9d	Scrutiny of Annual return on afforestation	Saplings:- 1. Within lease- 0.00 2. Outside Lease- 700 Survival rate 1. within Lease - 86.00% 2. Outside Lease -79.00%	Saplings:- 1. Within lease- 63 2. Outside Lease- 713 Survival rate 1. within Lease - 86.00% 2. Outside Lease -79.00%	
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- 144154 MT Production- 2039856 MT. Dispatch- 2170708 MT. Closing Stock- 13302 MT	Opening Stock- 144154 MT Production- 2039856 MT. Dispatch- 2170708 MT. Closing Stock- 13302 MT	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex. Mine Price- 655.29	Cross checked from the returns found it to be correct	
9i	Scrutiny of Annual return on fixed assets	Rs.- 1393952159	Verified during inspection & found it to be correct.	
9k	Scrutiny of Annual return on mining machineries	1) Back Hoe ----04 2) Rock Breaker--03 nos 3) Drilling Machine-- 03 nos 4) Front End Loader - 01 5) Dumper -----11 6) Dozer -----01 7) Water Tanker ---02 8) Road Roller---01	Verified from submitted annual machinery statement; 1) Back Hoe ----04 2) Rock Breaker--03 nos 3) Drilling Machine-- 03 nos 4) Front End Loader - 01 5) Dumper -----11 6) Dozer -----01 7) Water Tanker ---02 8) Road Roller---01	

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

No Violations were pointed out during this inspection. No violations were also pointed out during the last inspection carried out by RCOM, Guwahati on 05.10.2018 and by ACOM, Guwahati on 04.02.2020.


04/03/2020

Name of Inspecting Officer with Designation and Date