

MCDR INSPECTION REPORT

2022-23

S. N.	Particulars	Details
1	Name of the Mine	Nongtraï Limestone Mine
	Date of inspection	14.09.23
	Name of inspecting officer	Sandeep Kumar Singh
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	100 Ha (Forest)
3	Minecode	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 Private Limited 3rd Floor, Goenka Tower Morello Compound, Keating Road, Shillong, Meghalaya-793001.
6	Village	Nongtraï
7	Taluk/Mandal	Mawsynram Block, Shella Confederacy
8	District	East Khasi Hills
9	Pincode	793112
10	State	Meghalaya
11	Post office	Shella Bazar
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	Not Applicable
18	Date of second Renewal, if applicable and its period & expiry	Not Applicable
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not Applicable
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	George Chacko Lafarge Umiam Mining Private Limited 3rd Floor, Goenka Tower Morello Compound, Keating Road, Shillong, Meghalaya-793001. Mail: george.chacko@lafargeholcim.com Phone: +91 364 2501115 Fax: +91 364 2505519 Mobile No: 9957173007 DOA: 25th June 2023
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Barun Barua Nongtraï Limestone Mine Lafarge Umiam Mining Private Limited 3rd Floor, Goenka Tower Morello Compound, Keating Road, Shillong, Meghalaya-793001. Mail: barun.barua@lafargeholcim.com

		Phone: +91 364 2501115 Fax: +91 364 2505519 Mobile No: 9863110700 DOA: 16th June, 2022
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	P.V. Phanikrishna Kumar Nongtra, Mawsynram Block, Shella Confederacy, Shella Bazar, East Khasi Hills, Meghalaya-793 112 Mail: phanikrisna.kumar@lafargeholcim.com Phone: +91 364 2501115 Fax: +91 364 2505519 Mobile No: 8575011312 DOA: 24th March, 2022
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Pandya Pinkesh Ashokbhai Nongtra, Mawsynram Block, Shella Confederacy, Shella Bazar, East Khasi Hills, Meghalaya-793 112 Mail: pinkesh.pandya@lafargeholcim.com Phone: +91 364 2501115 Fax: +91 364 2505519 Mobile No: 9727289758 DOA: 15 th June 2023
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	1. Approval of 1st Mining Plan: 04.03.1999
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	2. Mining Plan – 29.05.2000 3. Mining Plan – 11.10.2002 4. PMCP – 03.06.2006 5. Modification of Mining Plan – 10.09.2007 6. Scheme of Mining – 27.10.2008 7. Scheme of Mining – 04.10.2013 8. Modification of Scheme of Mining – 27.08.2015 9. Modification of Scheme of Mining – 19.06.2017 10. Review of Mining Plan – 07.11.2017 11. Modification of Mining Plan – 02.03.2020 12. Modi. of Review of Mining Plan - 04.12.2020 13. Review of Mining Plan – 13.01.2023 (2023-24 to 2027-28)
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 Mechanized
30	Captive/ Non captive	Non-Captive (Export)

Exploration

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	6 nos of borehole, 740 mtrs	None	Backlog of 740 mtrs of 2021-22 completed in the year 2022-23.
1b	Exploration over lease area for Geological axis 1 or 2.	17 nos of borehole, 2160 mtrs over 100 ha.	A total of 2991 mtrs over 100 ha. lease area.	Exploration completed as proposed and report submitted.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Holtec Consulting Pvt. Ltd.	Holtec Consulting Pvt. Ltd. Rs. 2.08 Crore	----
1d	Balance area to be explored to bring Geological axis in 1 or 2	None	None	----
1e	Balance reserves as on 01.04.2023	190.53 Million Tones	190.53 Million Tones	
1f	General remarks of inspecting officer on geology, exploration etc.	The lessee has completed Exploration by core drilling during the present plan period 2022-23 as proposed in the mining plan. The lessee has explored the deposit upto end of Prang Limestone/Start of Narpuh Sand Stone (upto 48.51 m RL.)		

Development

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	North-East Side E 361408.731 N 2787306.375 South-East side E 361393.164 N 2786692.784 South-West E 360878.109 N 2786792.725 North-West E 360772.770 N 2787348.175	North Side E 361000.000 N 2787405.587 East side E 361373.983 N 2787163.001 South E 361000.000 N 2786791.025 West E 360588.258 N 2787163.125	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No topsoil and overburden present.	No topsoil and overburden present. Benching in Limestone is maintained at 10 mts maximum height with	As proposed

			minimum 25-30 mtrs bench width	
2c	Stripping ratio or ore to OB ratio	Not Applicable	Not Applicable	No topsoil and overburden present.
2d	Quantity of topsoil generation in m3	Not Applicable	Not Applicable	No topsoil presents. Minor quantity of Trapped soil generated is stored in designated shed for uses in Nursery.
2e	Quantity of overburden generation in m3	Not Applicable	Not Applicable	No overburden presents.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Development is done as per proposal in Mining Plan. Mining is done developing pit and benching of approximate 10 mtr ht.mechanised mining using shovels and dumpers is done.		

Exploitation

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1 (One)	1 (One)	
3b	Quantity of ROM mineral production proposed	4,100,390 tons	3,453,257 tons	
3c	Recovery of salable/usable mineral from ROM production	4,100,390 tons	3,453,257 tons	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral reject generation and threshold value declared	Not Applicable	Not Applicable	
3f	Quantity of sub-grade mineral generation	Not Applicable	Not Applicable	
3g	Grade of sub-grade mineral generation	Not Applicable	Not Applicable	
3h	Manual / Mechanized method adopted for segregating from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not Applicable	Not Applicable	
3j	Provision of drilling & blasting in mineral benches	Deep hole drilling and blasting is proposed using using 115 mm dia DTH drilling machines.	Yes, Drilling is being carried out by hydraulically and pneumatically operated 115 mm dia DTH drilling machines.	

			Conventional blasting using ANFO/Slurry with use of milli second delay/ NONEL and or Electronics Detonator are used to prevent the fly rocks, noise and to reduce ground vibrations.	
3k	Provision of mining machineries in mineral benches	Proposed for using hydraulic excavators of 2.45 m3 to 1.8 m3 bucket capacity	Yes, the hydraulic excavators of 2.45 m3 to 1.8 m3 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	10 mtrs bench height were planned	No overburden, only Limestone mineral-Mining Method as proposed in MP (bench height 8 to 10 mtrs)	No overburden
3m	Total area covered under excavation/pits	44.550 Ha	43.547 Ha	
3n	Ore to OB ratio for the pit/mine during the year	Nil	Not Applicable	No overburden in Mines
3o	Total area put in use under different heads at the end of year	Pit = 46.550 Ha Buildings & Road = 6.580 Ha Stock Area: 5.137 Ha Total = 58.107 Ha	Pit = 43.547 Ha Buildings & Road= 6.580 Ha Stock Area: 5.137 Ha Total = 55.264 Ha	
3p	Production of ROM mineral during last five-year period, as applicable	Proposal 2018-19 = 2821765 MT 2019-20 = 3101430 MT 2020-21 = 2936832 MT 2021-22 = 3700285 MT 2022-23 = 4100390 MT	Actual 2018-19 = 2039856 MT 2019-20 = 2265652 MT 2020-21 = 2232341 MT 2021-22= 2477094 MT 2022-23 = 3453257MT	
3q	General remarks of inspecting officer on method of mining etc.	During the reporting year, 3453257 MT has produced as against the proposal in MP of 4100390 MT. (84 % achieved).mechanized mining using shovel and dumpers is done feeding to crusher.		

Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Not Applicable	Not Applicable	
4b	Location of topsoil, OB & mineral reject dumps	Not Applicable	Not Applicable	
4c	Number of dumps within lease area and outside lease area	Not Applicable	Not Applicable	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not Applicable	Not Applicable	

4e	Number of active & alive dumps	Not Applicable	Not Applicable	
4f	Number of dead dumps	Not Applicable	Not Applicable	
4g	Number of dumps stabilized	Not Applicable	Not Applicable	
4h	Whether Retaining wall or garland drain all along dumps are there	Not Applicable	Not Applicable	
4i	Length of Retaining wall or garland drain all along dump	Not Applicable	Not Applicable	
4j	Number of settling ponds	Not Applicable	Not Applicable	
4k	Specific comments of inspecting officer on waste dump management.	No topsoil and overburden present in the mine and there are no proposal for same in approved mining plan.		

Solid Waste Management-Backfilling

S.N.	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not Applicable	Not Applicable	
5b	Area under backfilling of mined out area	Not Applicable	Not Applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not Applicable	Not Applicable	
5d	Total area fully reclaimed & rehabilitated	Not Applicable	Not Applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No proposals are made in approved mining plan for backfilling.		

Progressive Mine Closure Plan

S.N.	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.	Annual PMCP report to be submitted before 1st day of July of every year	Submitted on 30th June, 2023 for the reporting year 2022-23	complied
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. 0.32 ha ii. 0.32 ha iii. 150 nos	i. 0.32 ha ii. 0.32 ha iii. 400 nos	1. In 2017-18: Plantation by 253 Nos in 0.144 Ha area. 2. In 2022-23: Plantation by 400 Nos in 0.32 Ha Cumulative area 0.464 Ha rehabilitated by 653 no of plants in worked out benches in the eastern side.
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 Applicable	Not Applicable	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) A total of 750 nos proposed ii) 0.30 ha iii) Plantation	i) 750 nos saplings planted ii) 0.30 ha iii) Plantation	1. Backlog of 575 nos of plantation for the year 2021-22 done by planting 600 no of plant in designated area of approx. 0.28 Ha. 2. Plantation is done in the year 2022-23 by 750 nos over 0.30 ha area on eastern and western safety zone & block-A of ML have been

				planted for green belt development
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposed to carry Air, Noise and Water quality monitoring during the year within the lease area	Air, Noise and Water quality monitoring carried out as per the proposal during the reporting year.	Complied and within permissible limit
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	The lessee has carried out environmental monitoring as proposed in MP. During FY: 2022-23 a part of 150 m RL bench towards east of ML has reached to its ultimate position. An area of 0.32 ha is rehabilitated by afforestation by planting 400 nos of sapling.		

Mineral Conservation

S.N.	Item	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 is directly sent to the crusher unit from the mine	Crusher located outside lease
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not Applicable	Not Applicable	
7c	Different grade of mineral sorted out at mines	Not Applicable	Not Applicable	
7d	Any beneficiation process at mines	Not Applicable	Not Applicable	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	There is no proposal for mineral beneficiation in approved Mining Plan.		

Environment

S. N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Applicable	Not Applicable	
8b	Concurrent use or storage of topsoil	Not Applicable	Not Applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not Applicable	Not Applicable	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Applicable	Not Applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Applicable	Not Applicable	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	<p>i) A total of 750 nos proposed ii) 0.30 ha iii) Plantation</p> <p>Past Plantation:</p>	<p>i) 750 nos saplings planted ii) 0.30 ha iii) Plantation</p> <p>A total of 13149 sapling has been planted since opening of mines as on March 2023 in safety zone, block A and available barren area within mining lease in an approx. 1.52 ha area</p>	<p>1. Backlog of 575 nos of plantation for the year 2021-22 done by planting 600 no of plant in designated area of approx. 0.28 Ha.</p> <p>2. Plantation is done in the year 2022-23 by 750 nos over 0.30 ha area on eastern and western safety zone & block-A of ML have been planted for green belt development</p>
8g	Survival rate	80 %	within Lease – 81 %	
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 150 m RL bench towards east of ML has reached to its ultimate position in part area. During 2022-23, 0.32 ha area is rehabilitated by afforestation.		

	Drilling machines are equipped with wet drilling arrangements/cyclone dust collectors/bag filters. Lot of greenery is observed outside lease area and in lease area.
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Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to september-2023 A.R. Submitted upto March-2023	Complied

S.N.	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	1. Pandya Pinkesh Ashokbhai- Mining Engineer. 2. Padam P Sharma- Geologist.	Geologist and Mining engineer were present during the inspection.	Information provided
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit = 43.547 Ha Buildings & Road= 6.580 Ha Stock Area: 5.137 Ha Total = 55.264 Ha	Information provided	
9d	Scrutiny of Annual return on afforestation	A total of 1750 no of sapling planted within lease 1. backlog of 2021-22 by 600 no's 2. for 2022-23 by 750 nos of plant 3. In rehabilitation area of eastern side by 400 no's of sapling in worked out bench.	Information provided	1. Backlog of 575 nos of plantation for the year 2021-22 done by planting 600 no of plant in designated area of approx. 0.28 Ha. 2. Plantation is done in the year 2022-23 by 750 nos over 0.30 ha area on eastern and western safety zone & block-A of ML have been planted for green belt development. 3. 400 nos of sapling in rehabilitated area of 0.32 ha area in eastern side(worked out bench).
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Nil	Not Applicable

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening Stock- 13302 MT Production- 3453257 MT. Dispatch- 3453257 MT. Closing Stock- 13302 MT	Information provided	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex. Mine Price- Rs.776.14 Sale Value: Rs 884.67/ton Cost of production: Rs 473.13/ton	Information provided	
9i	Scrutiny of Annual return on fixed assets	Rs. - 1451660264	Information provided	
9k	Scrutiny of Annual return on mining machineries	1) Back Hoe ----04 Nos 2) Rock Breaker--02 nos 3) Drilling Machine- 04 nos 4) Front End Loader - 01 5) Dumper -----11 6) Dozer -----01 7) Water Tanker ---02 8) Road Roller---01	List of Mining machineries used in mines is provided	

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

Previous violations:

For short fall in achieving the approved proposed plantation target of 2021-22. and for violating the SOP for carrying out Drone Survey of Mine with regard to GCP Point dimension; marking, nos of GCP to be installed within the ML, violation under Rule 11(1) and Rule 34A(5) of MCDR-2017 was observed during previous the mine inspection and accordingly violation letter was issued on 02.12.2022. These violations have been complied.

Current inspection:

This inspection was done for verification of MCDR compliance, submitted 5 Star Rating Templates. No violation have been pointed out.

Date: 12.10.23

Name: Sandeep Kumar Singh
Designation: DCOM, IBM, Guwahati