

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-16

Mine code : 38MEG03005

Date of Inspection: 21.08.2019

General		
S.N.	Particulars	
1	Name of the Mine	Khliehjeri Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	4.9 Hect (Forest: NIL)
		Non Forest: 4.9 Hect.
3	Mine code	38MEG03005
4	IBM Registration Number under rule 45 of MCDR , 1988	IBM/5869/2011
5	Name of the lessee, Address, phone, email and fax number	M/s Meghalaya Cements Limited
6	Village	Thangskai
7	Taluka/Mandal	Khliehriat
8	District	East Jaintia Hills
9	Pin code	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	15.06.2005
15	Date of Execution	21.06.2006.
16	Date of opening of Mine	24.07.2006
17	Date of first Renewal , if applicable and its period & expiry	No
18	Date of second Renewal , if applicable and its period & expiry	No
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 Ramesh Kumar Pareek Date of appointment : 05.11.2018 Vill : Thangskai, P.O : Lumshnong Dist : East Jaintia Hills Meghalaya - 793210 Email : rkpareek@topcem.in Mob : 9402198186
21	Name of the Mine agent with Address, phone, email, fax number and date of appointment	Sri Arun Kejriwal Date of appointment: 12.11.2018 Megha Plaza, 4th Floor, Christian Basti, Guwahati - 781005 Email : aagarwal@topcem.in Mob : 8638993718
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment	No Mines Manager is appointed presently in this mine as on date of inspection
23	Name of the Mining Engineer , Qualification and total experience with Address , phone, email, fax number and date of appointment in mine	Sri Amit Kumar Date of appointment: 05-02-2019 Qualification : BE (Mining) Experience : 03 Years Vill : Thangskai, P.O : Lumshnong Dist : East Jaintia Hills

		Meghalaya - 793210 Email : mines@topcem.in Mob : 8930787410
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44	No Geologist is working presently in this mine as on date of inspection
25	Date of Approval of Mining plan/Modified Mining plan with five year period & specific condition in approvals letter, if any	Mining Plan approved on 28/04/2006 for five years period.
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five year period & specific condition in approval letter, if any	11/11/2016 for the 5 years period i.e. 2016-17 to 2020-21 and valid upto 31/03/2021.
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 Manual)	Fully Mechanised
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	Nil	Nil	
1b	Exploration over lease area for Geological axis 1 or 2	Nil	Nil	
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		1140712 tons	
1f	General remarks of inspecting officer on geology, exploration etc.	Entire lease area of 4.90 Ha. has been explored under G1 category		

Development

S.N.	Items	Proposals	Actual work	Remarks
2a	Location of development w.r.t lease area	Location: 300 S- 90 S 180 W-100 E	Location: 300 S- 90 S 180 W-100 E	
2b	Separate benches in topsoil , overburden and mineral (Rule 15)	Yes, Top Soil - Nil OB -02 Bench (From (731-722) Limestone - 05 Benches (From (722-695)	Yes, Top Soil - Nil OB -02 Bench (From (731-722) Limestone - 05 Benches (From (722-695)	
2c	Stripping ratio or ore to OB ratio	1: 0.55	1:0.12	

2d	Quantity of topsoil generation in m ³	Nil	7911 M ³	
2e	Quantity of overburden generation in m ³	15625 Cum	13145 M ³	
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	243312 tons	175570 tons	
3c	Recovery of salable/usable mineral from ROM production	243312 tons	175570 tons	
3d	Quantity of mineral reject generation	12165 tons	Nil	5% of ROM has been proposed as rejects in the approved document
3e	Grade of mineral reject generation and threshold value declared	Nil, 35% CaO 4% MgO	Nil	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
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.	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, Top Soil - Nil OB -02 Bench (From (731-722) Limestone - 05 Benches (From (722-695)	Yes, Top Soil - Nil OB -02 Bench (From (731-722) Limestone - 05 Benches (From (722-695)	
3m	Total area covered under excavation / pits	3.834 ha	3.834 ha	
3n	Ore to OB ratio for the pit/mine during the year	1: 0.55	1:0.12	

3o	Total area put in use under different heads at the end of year	Pit =3.834 ha Road = 0.164 ha Total = 3.998 ha	Pit =3.834 ha Road = 0.164 ha Total = 3.998 ha	
3p	Production of ROM mineral during last five year, as applicable	Production proposal for 2016-17= 257062 MT 2017-18= 250625 MT 2018-19= 243312 MT	Actual Production 2016-17= Nil 2017-18= 195240 MT 2018-19= 175570 MT	Mines was suspended from 26.12.2011 to 17.01.2017 and reopened on 25-09-2017
3q	General remarks of inspecting officer on method of mining etc.	The lessee has followed the approved proposal and achieved about 72% of 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	NA	NA	
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)	NA	NA	
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.	NA	NA	
4i	Length of Retaining wall or garland	NA	NA	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management	There is no waste dump within the ML area. 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	No proposal of backfilling in the mine pit. However backfilling was proposed over statutory barriers.	Backfilling was carried out over statutory barriers.	
5b	Area under backfilling of mined out area	0.10 Ha	0.10 Ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	Nil	Nil	
5d	Total area fully reclaimed & rehabilitated	0.10 Ha	0.10 Ha	
5e	General remarks of inspecting officer on backfilling , reclamation etc.	No proposal of backfilling in the mine pit. However backfilling was proposed over statutory barriers. Generated waste during the reporting year i.e. 13145 cum has been back filled in safety barrier area over 0.10 Ha to restore the safety barrier as per the approved proposal		

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 10th July, 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) Nil ii) Nil ii) Nil iv) Nil v) Nil vi) Nil	i) Nil ii) Nil ii) Nil iv) Nil v) Nil vi) Nil	
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) No iv) NA v) Nil	i) NA ii) NA iii) No iv) NA v) Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated(ha) iii) Method of rehabilitation	i) 100 nos saplings ii) 0.05 Ha iii) Nil	i) 305 nos saplings OML ii) 0.0845 Ha iii) Nil	Mine is not yet matured.
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	Mechanised	Mechanised	
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	
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	Generated waste during the reporting year i.e. 13145 cum has been back filled in safety barrier area over 0.10 Ha to restore the safety barrier as per the approved proposal
8e	Phased restoration , reclamation and rehabilitation of lands affected by mining operations (pits, dumps etc).	Nil	Nil	
8f	Baseline information on existence of plantation & additional plantation done(Rule 41)	Yes, proposed for plantation of 100 nos saplings covering an area of 0.05 ha.	Yes, 305 nos saplings planted during 2018-19 with the survival rate 75.40% Outside Lease area over 0.0845 ha.	
8g	Survival rate	NA	75.40%	
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 305no of sapling near to ML area(out side) the lease area and carried out water sprinkling inside the mine over haul roads to minimize the fugitive dust emission. 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 July' 2019 as per MCDR, 2017	
		Annual Return submitted upto	Submitted upto 2018-19 as per MCDR, 2017	

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.	Manager- Nil Mining Engineer- Amit Kumar Geologist- Nil	Presently no Manager and Geologist are working in the mine, a violation in this regard has been issued to the lessee on 29.08.2019
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit = 3.834 ha Road = 0.164 ha Total = 3.998 ha	Pit = 3.834 ha Road = 0.164 ha Total = 3.998 ha
9d	Scrutiny of Annual return on afforestation	305 nos saplings planted during 2018-19 with the survival rate 75.40% Outside Lease area. Area covered OML= 0.0845 ha	305 nos saplings planted during 2018-19 with the survival rate 75.40% Outside Lease area. Area covered OML= 0.0845 ha
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- 175570 MT. Dispatch- 175570 MT. Closing Stock- Nil There is no separate stock for graded ore	Opening Stock- Nil Production- 175570 MT. Dispatch- 175570 MT. 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- 322.00	Cross checked from the returns found it to be correct
9i	Scrutiny of Annual return on fixed assets.	Rs.- 2097947511	Verified with Asset register during inspection & found it to be correct.
9k	Scrutiny of Annual return on mining machineries	Submitted upto 2018-19 <u>Machineries Nos.</u> 1) Back hoe ----02 2) Air compressor -01 3) Blast Host Drill -01 4) Dumper -----05 5) Dozer -----01 6) Water Tanker -01	Submitted upto 2018-19 <u>Machineries Nos.</u> 1) Back hoe ----02 2) Air compressor -01 3) Blast Host Drill -01 4) Dumper -----05 5) Dozer -----01 6) Water Tanker -01

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

Violations under rule 33 & 55 were pointed out and violation letter has been issued to the lessee on 29.08.2017. Lessee has complied the earlier violations under rule 26(2) of vide letter dated 07.09.2018.


 Name of inspecting officer with designation and date