

**INDIAN BUREAU OF MINES**  
**MINES CONTROL AND CONSERVATION OF MINERAL DIVISION**  
**MCDR INSPECTION REPORT**

**Guwahati Regional Office**

Mine file No : MCDR-MiFLOLST/3/2023-GUH-IBM\_RO\_GUH

Mine code : 38MEG03005

Date of Inspection: 16.03.2023

**General**

S.N.	Particulars	
1	Name of the Mine	Khliehjeri Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest	4.9 Ha. Forest: NIL , Non Forest: 4.9 Ha.
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	Ramesh Kumar Pareek Vill : Thangskai, P.O : Lumshnong Dist : East Jaintia Hills Meghalaya - 793210 Email : rkpareek@topcem.in Mob : 9402198186 Date of appointment: 05.11.2018
21	Name of the Mine agent with Address, phone, email, fax number and date of appointment	Arun Kejriwal Megha Plaza, 4th Floor, Christian Basti, Guwahati - 781005 Email : aagarwal@topcem.in Mob : 8638993718 Date of appointment: 12.11.2018
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment	Amit Kumar (I/c) Qualification : BE (Mining) ;Experience : 04 Years Vill : Thangskai, P.O : Lumshnong Dist : East Jaintia Hills ; Meghalaya - 793210 Email : mines@topcem.in ;Mob : 8930787410 Date of appointment: 05-02-2019
23	Name of the Mining Engineer , Qualification and total experience with Address , phone, email, fax number and date of appointment in mine	Amit Kumar Qualification : BE (Mining) ;Experience : 04 Years Vill : Thangskai, P.O : Lumshnong Dist : East Jaintia Hills ;Meghalaya - 793210 Email : mines@topcem.in ;Mob : 8930787410 Date of appointment: 05-02-2019

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 <b>Mining plan</b> /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 <b>Scheme of Mining</b> /Modified Scheme of Mining with five year period & specific condition in approval letter, if any	First Review of Mining Plan was approved on 11/11/2016 for the 5 years period i.e. 2016-17 to 2020-21 and valid upto 31/03/2021. The year 2021-22 was elapsed and the Review of Mining Plan was approved on 26.07.2022 for 4 years period i.e. from 2022-23 to 2025-26. In year 2021-22 production has been done with the Provisional approval of Review of Mining Plan approved on dated 01.06.2021 vide letter No - IBM/GHY/MEG/JNH/LST/MS-53.
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	03 nos of Boreholes (BH-01, BH-02 & BH-03)	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil	Rs.112500.00	Rs 2500.00 per metre.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserves as on <b>01.04.2022</b>	318592.00 MT	202482.00 MT	Balance reserves as on 01.04.2022 as per the the provisionally approved RMP
1f	General remarks of inspecting officer on geology, exploration etc.	Lease fully explored in G1 category. However Rule 12(4B) & 12(5) was not complied and therefore violation issued.		

#### Development

S.N.	Items	Proposals	Actual work	Remarks
2a	Location of development w.r.t lease area	Northern part of the working pit as per the proposal. N-233.7 - N- 317.47 ; E-100.2 - E-309.14.	Northern part of the working pit as per the proposal. N 269.0 - N 333.65;; E 215.21 - E 322.92	Poposal as per provisionally approved RMP
2b	Separate benches in topsoil , overburden and mineral (Rule 15)	Yes, Separate benches in OB and mineral	Yes, Separate benches in OB and mineral were maintained	

	Stripping ratio or ore to OB ratio	1 :0.09	1: 0.00	
2d	Quantity of topsoil generation in	Nil	Nil	
2e	Quantity of overburden generation in m <sup>3</sup>	7975.00 M3	Nil	
2f	General remarks of inspecting officer on development of pit w.r.t type of deposit etc.	Only one pit exist with northern side is having highwall and close to lease boundary. No scope of correction in highwall observed.		

### **Exploitation**

S.N.	Items	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	85805.00 MT	30305.00 MT	
3c	Recovery of salable/usable mineral from ROM production	85805.00 MT	30305.00 MT	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral reject generation and threshold value declared	35% CaO 5% MgO	Nil	
3f	Quantity of sub-grade mineral	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.	NA	NA	
3j	Provision of drilling & blasting in mineral benches.	Drilling:- 115 mm dia, Hole depth = 6.5 m. Spacing -3.0 m Burden= 2.5 m Hole Charge = 28.0 Kg. Kg of Explosives. Nonel technology as well as detonating fuse and delay detonators are using for sequential blasting.	Drilling:- 115 mm dia, Hole depth = 2.5 m. Spacing -5.0 m Burden= 3.0 m Hole Charge = 10.0 Kg of Explosives. Nonel technology as well as detonating fuse and delay detonators are using for sequential blasting.	
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	4.049 ha	4.049 ha	
3n	Ore to OB ratio for the pit/mine during the year	Nil	1:0.00	
3o	Total area put in use under different heads at the end of year	Pit =4.049 ha Road = 0.225 Ha Total =4.274 Ha	Pit =4.049 ha Road = 0.225 Ha Total =4.274 Ha	

3p	Production of ROM mineral during last five year, as applicable	Production proposal 2017-18= 250625 MT 2018-19= 243312 MT 2019-20= 223625 MT 2020-21= 221687 MT 2021-22= 85805 MT	Actual Production 2017-18= 195240 MT 2018-19= 175570 MT 2019-20= 163005 MT 2020-21= 148041 MT 2021-22= 30305 MT	
3q	General remarks of inspecting officer on method of mining etc.	The mine is being operated by mechanised method by adoptin deep hole drilling and blasting in combination with deployment of hyd excavators.		

### Solid Waste Management- Dumping

S.N.	Items	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	NA	NA	
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 drain all along dump	Nil	Garland drain constructed al along the top of the benches.	Boundary wall is constructed at north west boundary of the lease area
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management	No OB/ waste exist in the lease however violation of Rule -26(1) was observed with respect to fencing proposal of 1130 meters therefore violation for the same was issued for non-compliance		

### 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	Nil	
5b	Area under backfilling of mined out area	Nil	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	No topsoil in the Lease area	Nil	Topsoil collected from other area for use in Plantation works.
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of inspecting officer on backfilling , reclamation etc.			

**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	First July of Every Year	Submitted in July 2022 through mail.	
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) 0.1201 Ha ii) 150 Nos iv) Nil v) Nil vi) Nil	i) Nil ii) 0.1201 Ha ii) 115 Nos iv) 12955 Nos OML (Cumulative) v) Nil vi) Rs. 76500/-	Mineral yet to be exhausted and minng activity is in the dynamic stage and therefore no rehabilitation on mined out benches.
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) Nil ii) 7975.00 MT ii) Nil iv) Nil v) Nil	i) Nil ii) 7975.00 MT ii) Nil iv) Nil v) Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated( ha) iii) Method of rehabilitation	NA	NA	Mine is not yet matured.
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Nil	Air, Noise and Water quality monitoring was done as per the earlier Review of Mining Plan.	
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations			

**Mineral Conservation**

S.N.	Items	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Nil	Nil	
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	Nil generation of mineral reject has been reported by the lessee.		

**Environment**

S.N.	Items	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No	No	
8b	Concurrent use or storage of topsoil	No topsoil	Nil	
8c	Separate dumps for overburden , waste rock , rejects and fines (Rule 33)	No	Nil	
8d	Use of overburden , waste rock, rejects and fines dumps for restoring the land to its original use.	Waste to be used in backfilling	Nil	
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)	150 nos saplings planted WML= 0.1201 Ha	115 nos saplings planted during 2021-22 with the survival rate 79.13%	
8g	Survival rate	NA	~ 80 %	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling has been carried out on haul roads.	Water sprinkling has been carried out on haul roads.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	115 nos of saplings in the mining lease area . Water sprinkling is being done to minimize the fugitive dust emission. This sustains the aesthetic beauty of the mine		

**Compliance of Rule 45**

S.N.	Item	Comments		Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Return submitted upto	Submitted within 10 <sup>th</sup> every month	
		Annual Return submitted upto	Submitted within July, 2022	
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.	Mining Engineer: Amit Kumar Geologist: Tapas Ranjan Mahakud	Mining Engineer: Amit Kumar Geologist: Tapas Ranjan Mahakud	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit:4.0479 Road: .225 Others: .626 Total:4.9 Ha.	Pit:4.0479 Road: .225 Others: .626 Total:4.9 Ha.	
9d	Scrutiny of Annual return on afforestation	WML: 0 WML Survival Rate: 0 OML: 115 OML Survival Rate: 79.13	WML: 0 WML Survival Rate: 0 OML: 115 OML Survival Rate: 79.13	
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: 0 Closing Stock: 0 Production: 30305.000 Despatch: 30305.000	Opening stock: 0 Closing Stock: 0 Production: 30305.000 Despatch: 30305.000
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost.	Ex-Mine: 314.00 Sales value: 0 (CC)	Ex-Mine: 314.00 Sales value: 0 (CC)
9i	Scrutiny of Annual return on fixed assets.	Rs 3753438	Rs 3753438
9k	Scrutiny of Annual return on mining machineries	As per the approved Review of Mining Plan 2016-17 to 2020-21 <b><u>Machineries nos.</u></b> 1) Back hoe ----02 2) Air compressor -01 3) Blast Host Drill -01 4) Dumper -----10 5) Dozer -----01 6) Water Tanker -01	Submitted upto in Annual return of 2021-22 <b><u>Machineries nos.</u></b> 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 :-**

No outstanding violation exists. Violation under Rule-34(A), Rule26(1), Rule 12(4B) and 12(5) was issued.

*Vikas*  
*31/3/23*

(Vikas Kumar), ACOM

Name of inspecting officer with designation and date