

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

Mine file No : MCDR-MiFLOLST/4/2023-GUH-IBM_RO_GUH

Mine code : 38MEG03008

Date of Inspection: : 17.03.2023

General

S.N.	Particulars	
1	Name of the Mine	Moiong Block- 1 Limestone Mine
2	Total Lease Area(Ha) with breakup of Non-forest and forest land	4.8 Hect (Forest : NIL Non Forest : 4.8 Hect.
3	Mine code	38MEG03008
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	29/01/2007
15	Date of Execution	08.03.2007.
16	Date of opening of Mine	12.06.2007.
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	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	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	Nil

23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Manish Singh Karki Date of appointment : 03-05-2021 Qualification : BE Mining Experience : 04 Years, Vill : Thangskal, P.O : Lumshnong Dist : East Jaintia Hills Meghalaya - 793210
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44	Yes, Geologist- Abdul Motin Barbhuiya Date of appointment : 13-11-2013 Qualification : M.Sc.(Geology) Experience : 12 Years, <u>Mining Engineer</u> Manish Singh Karki Date of appointment : 03-05-2021 Qualification : BE Mining Experience : 04 Years
25	Date of Approval of Mining plan/Modified Mining plan with five year period & specific condition in	Mining Plan was approved on 12/08/2006 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	Modified Review of Mining Plan was approved on 20.07.2020 for two years period i.e. from 2020-21 to 2021-22 and the FMCP was approved on 23.03.2021 for one year i.e. 2021-22.
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 :

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 01.04.2022	Nil	Nil	
1f	General remarks of inspecting officer on geology, exploration etc.	10 boreholes were drilled in the PL stage covering 378 meter and the area is in G1 category. Balance pre-feasibility resources (221 category) is 580503 Tonns. Additionally, No proposal approved from the year 2020-21 and onwards. The Mine is under the implementation stage of approved FMCP.		

ment		Proposals	Actual work	Remarks
ems	Location of development w.r.t lease area	Latitude- 25°12'28.70" to 25°12'39.40" Longitude- 92°23'21.60" to 92°23'29.70"	Latitude- 25°12'28.70" to 25°12'39.40"	Only Plantation works has been done
2b	Separate benches in topsoil , overburden and mineral(Rule 15)	Yes	Yes	
2c	Stripping ratio or ore to OB ratio	1: 0.00	1: 0.00	
2d	Quantity of topsoil generation in m ³	Nil	Nil	
2e	Quantity of overburden generation in m ³	Nil	Nil	
2f	General remarks of inspecting officer on development of pit w.r.t type of deposit etc.	Only one pit of approximately 300 M X 40 MX 182 M . Total mine benches -6 (OB-2 and Mineral- 4) . No mining activity on the date of inspection.		

Exploitation

S.N.	Items	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	Nil	Nil	
3c	Recovery of salable/usable mineral from ROM production	Nil	Nil	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral reject generation and threshold value declared	CaO- 34% MgO<5%	NA	
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.	NA	NA	
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	NA	NA	
3k	Provision of mining machineries in mineral benches	NA	NA	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM.	NA	NA	
3m	Total area covered under excavation / pits	4.210 ha	4.210 ha	
3n	Ore to OB ratio for the pit/mine during the year	1: 0.00	1: 0.00	
3o	Total area put in use under different heads at the end of year	Pit = 4.210 ha Road = 0.023 ha Total = 4.223 ha	Pit = 4.210 ha Road =	

3p	Production of ROM mineral during last five year, as applicable	Production proposal 2016-17= 102488 MT, 2017-18= 112837 MT 2018-19= 108225 MT 2019-20= 104946 MT 2020-21 = 86118 MT 2021-22 = Nil	Actual Production 2016-17 = 101950 MT 2017-18 = 103321 MT 2018-19 =
3q	General remarks of inspecting officer on method of mining etc	No mineral production from 2021-22 . FMCP approved(23.03.2021) and in implementation stage.	

Solid Waste Management- Dumping

S.N.	Items	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No Proposal	NA	
4b	Location of topsoil , OB & mineral	NA	NA	
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	NA	
4e	Number of active & alive dumps	No Proposal	Nil	
4f	Number of dead dumps	No Proposal	Nil	
4g	Number of dumps stabilized	No Proposal	Nil	
4h	Whether Retaining wall or garland drain all along dump	No Proposal	NA	
4i	Length of Retaining wall or garland drain all along dump	NA	NA	
4j	Number of settling ponds	No Proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management	There is no waste generation in the past years of 2020-21 and 2021-22. No such area seen which is mineralised and has been dumped with any materials .		

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	NA	
5b	Area under backfilling of mined out area	No Proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	No Proposal	Nil	Topsoil collected from other area for use in Plantation works.
5d	Total area fully reclaimed & rehabilitated	No Proposal	Nil	
5e	General remarks of inspecting officer on backfilling , reclamation etc	0.4289 Ha. area planted with approximately 400 saplings during 2020-21. & 0.06 Ha reclaimed in the earlier plan period as per FMCP. In total approximately 1600 saplings planted by the lessee however the growth rate is average(saplings avg height: 1.5 ft to 2 ft) and cant be called self sustaining as on date of inspection.		

re Mine Closure Plan

ams	Proposals	Actual work	Remarks
Whether Annual report on PMCP submitted on time and correctly- Rule 23E(2). Details should be given in the format as given in Annexure-	Before 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) 1.2912 Ha ii) 1.2912 Ha iii) 1615 nos iv) 1615 nos v) Regrassing - 2.66 Ha vi) Rs 362000/-	i) 1.2912 Ha ii) 1.2912 Ha iii) 2035 nos (Planted upto July, 2022) iv) 2035 nos (Planted upto July, 2022)	The progressive re-grassing has been done by the lessee. The mined out land was not in a position that can be called fit for growth of fodder, flora, fauna etc of its own and therefore not self sustainable.
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	Nil	Nil	
6d Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Nil	Nil	Afforestation done in the 0.2482 Ha undisturbed area within the mining lease 315 nos against the proposal of 310 nos saplings.
6e Compliance of Environmental monitoring (core zone & buffer zone)	Air, Noise and Water quality monitoring will be done.	Air, Noise and Water quality monitoring	
6f General remarks of inspecting officer on PMCP compliance & progressive closure operations	Mining machinery shifted to adjacent mine of the lessee. NO Infrastructure exists in the mining area. No mineral dump in the mining lease exist. The progressive re-grassing has been done by the lessee. The mined out land was not in a position that can be called fit for growth of fodder, flora, fauna etc of its own and therefore not self sustainable.		

Mineral Conservation

S.N.	Items	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NA	NA	
7b	Method of grade -wise mineral sorting i.e manual or mechanical	NA	NA	
7c	Different grade of mineral sorted out at mines	Nil	Nil	
7d	Any beneficiation process at mines	No	No	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No mineral reject has been generated .		

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	Top soil collected from other area for use in Plantation works.
8c	Separate dumps for overburden , waste rock , rejects and fines (Rule 33)	No	No	
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 rehabilitation of lands affected by mining operations	NA	NA	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Yes, proposed for plantation of 2260 nos saplings covering an area of 1.8070 Ha.	Yes, Plantation done - 2890 Nos (WML) Survival rate - approx 78 % Area covered = 1.8070 Ha (WML).	
8g	Survival rate	Nil	approx 78%	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Fencing done in the mining area for inadvertant entry. Lessee has planted approx 1600 nos. of saplings to restore the mined out area . This sustains the asthetic beauty of the mine area however the saplings self sustainance is not satisfactory.		

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 th every month	
		Annual Return submitted upto 2021-22	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: Manish Singh Karki Geologist : Abdul Motin Barbhuiya	Mining Engineer: Manish Singh Karki Geologist : Abdul Motin Barbhuiya	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit: 4.210 Road: 0.023 Virgin land:.0567 Total : 4.8	Pit: 4.210 Road: 0.023 Virgin land:.0567 Total : 4.8	
9d	Scrutiny of Annual return on afforestation	WML: 2890	WML: 2890	

	Scrutiny of Annual return on mineral reject generation(Grade & quantity)	Nil	Nil	
	Scrutiny of Annual return on ROM stock and/ or graded ore	Nil	Nil	
	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sales: 0 Ex-Mine price :0 Production : 0	Sales: 0 Ex-Mine price :0 Production : 0	
9i	Scrutiny of Annual return on fixed assets	Submitted	Submitted	
9k	Scrutiny of Annual return on mining machineries	Machineries nos. 1) Back hoe ----- 01 2) Air compressor - 01 3) Blast Host Drill -01 4) Dumper ----- 05 5) Dozer ----- 01 6) Water Tanker - 01	shown in Annual Return of 2021-22 Machineries nos. 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 :-

1. Rule34A(2): Every lessee, other than those covered under sub-rule (I), shall submit soft copy of high resolution Georeferenced Ortho-rectified Multispectral satellite images of the leased area and upto hundred metres outside the lease boundary taken in the month of April to June of every year, to the Controller General on or before 1st day of July of the that year in the standards formats such as GeoTIFF along with metadata or any other format as may be specified by the IBM in this regard. However no such compliance has been made against the same

Vikas
31/3/23

(Vikas Kumar), ACOM

Name of Inspecting Officer with Designation and Date