

**INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION**

MCDR INSPECTION REPORT

Guwahati regional office

Mine file No : IBM/GHY/MEG/JNH/LST-5

Mine code : 38MEG03008

- (i) Name of the Inspecting : **S001**) **Sri S. K. MOHAPATRA**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Sri N. Narayan Reddy (Mines Manager), Abdul Motin Bar
Official with
Designation
- (iv) Date of Inspection : 23/08/2018
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MOIONG BLOCK - 1**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : MEGHALAYA
District : JAINTIA HILLS
Village : THANGSKAI
Taluka : KHLIEHRIAT
Post office : LUMSHNONG
Pin Code :
FAX No. :
E-mail : mines@topcem.in
Phone : 8974059506
- (f) Police Station : Lumshnong
- (g) First opening date : 12/06/2007
- (h) Weekly day of rest : SUN
2. Address for :
correspondance
3. (a) Lease Number : MEG0028
(b) Lease area : 4.8
(c) Period of lease : 20
(d) Date of Expiry : 07/03/2027
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : M/s Meghalaya Cements Limited
Thangskai, Lumshnong
Khliehriat JAINTIA HILLS
MEGHALAYA
Phone:9954099099
FAX :

Owner : Sri Amit Agarwal
Megha Plaza, 4th Floor,
Christian Basti Guwahati -
781005 KAMRUP ASSAM
Phone: 9954099099
FAX :

Agent : Sri Ramesh Kumar Pareek
Vill : Thangskai P.O :
Lumshnong Dist : East
Jaintia Hills JAINTIA HILLS
MEGHALAYA
Phone: 8974059506
FAX :

6. Date of approval of Mining :
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	Exploration has not proposed during the reporting year.
1b	Exploration over lease area for geological axis 1 or 2	Nil	Nil	Exploration has not proposed during the reporting year.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	Exploration has not proposed during the reporting year.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Entire lease area is under G1 category.
1e	Balance reserve as on 01/04/20	306849 tons	310927 tons	310927 tons
1f	General remarks of inspecting officers on geology, exploration etc	Exploration has not proposed during the reporting year.	Exploration has not proposed during the reporting year.	Exploration has not proposed during the reporting year.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Southern side of the pit as per the geological map.	Southern side of the pit as per the geological map.	Carried out as per the proposal.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, proposed.	Yes, carried out.	Complied as per the proposal.
2c	Stripping ratio or ore to OB ratio	1: 0.389	1:0.393	Complied.

2d	Quantity of topsoil generation in m3	Nil	Nil	Not proposed uring the reporting year.
2e	Quantity of overburden generation in m3	14400 Cum.	14192 Cum	Complied as per the proposal.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	The lesse has carried out mining operation as per the proposal given in RoMP for the reporting year.	The lesse has carried out mining operation as per the proposal given in RoMP for the reporting year.	The lesse has carried out mining operation as per the proposal given in RoMP for the reporting year.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	Complied
3b	Quantity of ROM mineral production proposed	112837 tons	108759 tons	Complied.
3c	Recovery of sailable/usable mineral from ROM production	107194 tons	103321 tons	Complied.
3d	Quantity of mineral reject generation	5643 tons	5438 tons	Complied.
3e	Grade of mineral rejects generation and threshold value declared.	(19.20 - 21.03)% CaO	(19.20 - 21.03)% CaO	(19.20 - 21.03)% CaO
3f	Quantity of sub grade mineral generation.	Nil	Nil	Not proposed during the reporting year.
3g	Grade of sub grade mineral generation	Nil	Nil	Not proposed during the reporting year.

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	Mechanised
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	Not proposed during the reporting year.
3j	Provision of drilling and blasting in mineral benches	Yes, Drilling and blasting proposed	Yes, Drilling and blasting carried out as per the proposal.	Yes, Drilling and blasting carried out as per the proposal.
3k	Provision of mining machineries in mineral benches	Yes, Sovel and dumper combination proposed	Yes, Sovel and dumper combination carried out	Carried out as per the proposal.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, 6mtr.	Yes, 6mtr.	Yes, 6mtr.
3m	Total area covered under excavation/pits	3.85 Ha.	3.85 Ha.	Complied as per the proposal.
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.389	1:0.393	Complied as per the proposal.
3o	Total area put in use under different heads at the end of year	3.85 Ha.	3.85 Ha.	Complied as per the proposal.
3p	Production of ROM mineral during the last five year period as applicable	No proposal from 2013-14 to 2015-16) , 102488 tons for 2016-17 and 112837 tons for 2017- 18.	499889 tons	From 2013-14 to 2015-16, Mining Scheme was pending with IBM for its approval.

3q	General remarks of inspecting officers on method of mining etc.	The lesse has carried out the mining operation as per the proposal geiven for the reporting year.	The lesse has carried out the mining operation as per the proposal geiven for the reporting year.	The lesse has carried out the mining operation as per the proposal geiven for the reporting year.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Nil	Nil	Not proposed during the reporting year.
4b	Location of topsoil, OB and mineral reject dumps	Waste Generated will be backfilled to the nothern side along the lease boundary between P/4- P/5.	Backfilling has been carried out to the nothern side along the lease boundary between P/4- P/5 by the generated waste materials.	Backfilling has been carried out to the nothern side along the lease boundary between P/4- P/5 by the generated waste materials.
4c	Number of dumps within lease area and outside of lease area	Nil	Nil	Not proposed during the reporting year.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Nil	Nil	Not proposed during the reporting year.
4e	Number of active and alive dumps.	Nil	Nil	Not proposed during the reporting year.
4f	Number of dead dumps.	Nil	Nil	Nil
4g	Number of dumps established.	Nil	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Nil	Nil	Not proposed during the reporting year.

4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	Not proposed during the reporting year.
4j	Number of settling ponds	Nil	Nil	Not proposed during the reporting year.
4k	Specific comments of inspecting officer on waste dump management	No such specific proposal for dumping and protective measures during the reporting year.	No such specific proposal for dumping and protective measures during the reporting year.	No such specific proposal for dumping and protective measures during the reporting year.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Norther part of the lease area is non mineralised where backfilling is proposed.	Norther part of the lease area is non mineralised where backfilling has been carried out.	Norther part of the lease area is non mineralised where backfilling has been carried out.
5b	Area under backfilling of mined out area	0.27 Ha.	0.27 Ha.	Complied.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	Not proposed during the reporting year.
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	Not proposed during the reporting year.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Proposal for back filling of 0.27 Ha. area within the lease area.	Back filling of 0.27 Ha. area within the lease area has been carried out.	Back filling of 0.27 Ha. area within the lease area has been carried out.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Annual report of PMCP to be submitted.	Annual report of PMCP has not been submitted.	Annual report of PMCP has not been submitted.
6b	Area available for rehabilitation (ha) .	0.27 Ha.	0.27 Ha.	Carried out as per the proposal.
6c	afforestation done (ha).	0.27 Ha.	0.27 Ha.	Carried out as per the proposal.
6d	No. of saplings planted during the year	200 saplings	567 saplings	Complied as per the proposal.
6e	Cumulative no .of plants	7109 saplings	7676 saplings	Complied.
6f	Any other method of rehabilitation	Nil	Nil	Not proposed during the reporting year.
6g	Cost incurred on watch and care during the year	Rs. 20000/-	Rs. 56700/-	Complied.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.27 Ha.	0.27 Ha.	Complied.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.27 Ha.	0.27 Ha.	Complied.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	0.27 Ha.	0.27 Ha.	Complied.

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil	Not proposed during the reporting year.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil	Not proposed during the reporting year.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Nil	Not proposed during the reporting year.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil	Not proposed during the reporting year.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil	Not proposed during the reporting year.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Air, Noise and Water quality monitoring will be done.	Air, Noise and Water quality monitoring has carried out as per the proposal.	Air, Noise and Water quality monitoring has carried out as per the proposal.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Lesse has carried out backfilling, afforestation as per the proposal during the reporting year.	Lesse has carried out backfilling, afforestation as per the proposal during the reporting year.	Lesse has carried out backfilling, afforestation as per the proposal during the reporting year.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Nil	Nil	Not proposed during the reporting year.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Nil	Nil	Not proposed during the reporting year.
7c	Different grade of mineral sorted out at mines.	Nil	Nil	Not proposed during the reporting year.
7d	Any beneficiation process at mines .	Nil	Nil	Not proposed during the reporting year.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No specific proposal for the reporting year.	No specific proposal for the reporting year.	No specific proposal for the reporting year.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Nil	Not proposed during the reporting year.
8b	Concurrent use or storage of topsoil	Nil	Nil	Not proposed during the reporting year.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Nil	Nil	Not proposed during the reporting year.

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Over burden shall be used for back filling over 0.27 Ha.	Over burden has been used for back filling over 0.27 Ha.	Over burden has been used for back filling over 0.27 Ha.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	Not proposed during the reporting year.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	200 saplings	567 saplings	Carried out as per the proposal.
8g	Survival rate	Nil	77%	Complied.
8h	Water sprinkling on roads to control airborne dust	Water sprinkling will be done on haul roads.	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	Proposal given for backfilling, afforestation and water sprinkling.	Backfilling, afforestation and water sprinkling carried out as per the proposal.	Backfilling, afforestation and water sprinkling carried out as per the proposal.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	As per Rule 45 of MCDR 2017 Annual return and monthly return has to be submitted.	As per Rule 45 of MCDR 2017 Annual return and monthly return has been submitted.	As per Rule 45 of MCDR 2017 Annual return and monthly return has been submitted.

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer and Geologist to be appointed.	Mining Engineer and Geologist has been appointed.	Complied.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Proposed as per approved RoMP.	Carried out as per proposal.	Complied.
9d	Scrutiny of Annual return on afforestation	200 saplings	567 saplings	Complied.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	5643 tons	5438 tons	complied.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil	Complied.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Rs. 329/-	Rs. 329/-	Complied
9h	Scrutiny of Annual return on fixed assets	Rs. 2310419547	Rs. 2310419547	Complied.
9k	Scrutiny of Annual return on mining machineries	As proposed in RoMP	Carried out as per proposal.	Complied

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

Violation observed		Show cause position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date :

(Sri S. K. MOHAPATRA)

Indian Bureau of Mines