

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-17

Mine code : 38MEG03004

Date of Inspection : 15.12.2020

General

S.N.	Particulars	
1	Name of the Mine	South Khliehjari Limestone Mine
2	Total Lease Area(Ha) with breakup of Non-forest and forest land	31.05 Ha. Forest : NIL, Non Forest : 31.05 Ha.
3	Mine code	38MEG03004
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	Pincode	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	10-01-2017
15	Date of Execution	10-01-2017
16	Date of opening of Mine	19-01-2018
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	Umesh Kumar Date of appointment : 01-02-2017 Vill : Thangskai, P.O : Lumshnong Dist : East Jaintia Hills Meghalaya - 793210 Email : mines@topcem.in ; Mob : 9402198201
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Jyoti Prakash Panda Date of appointment : 10-06-2019 Qualification : BE (Mining) Experience : 02 Years Vill : Thangskai, P.O : Lumshnong Dist : East Jaintia Hills Meghalaya - 793210 Email : mines@topcem.in ; Mob : 8249433171
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 : 19.01.2018. Qualification : M.Sc.(Geology) Experience : 10 Years, Mining Engineer -
25	Date of Approval of Mining plan/Modified Mining plan with five year period & specific condition in approaval letter, if any	Modified Mining Plan was approved on 13-12-2016 for 31.05 ha .
26	Date of Approaval of Scheme of Mining/Modified Scheme of Mining with five year period & specific condition in approaval letter, if any	NA
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 Mechanised
30	Captive/Non Captive	Captive

g : Compliance of proposals of approved mining plan/scheme of mining (Duplication of information in existing TMIS
and draft write up has been avoided)

ation		Proposals	Actual work	Remarks
	Log of previous year	Nil	Nil	
	Exploration over lease area for Geological axis 1 or 2	Nil	Nil	
	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 01.04.2020	1238861 MT	15557216 MT	Production could not be done in 2016-17 as date of opening of the mine is 19-01-2018.
1f	General remarks of inspecting officer on geology, exploration etc.	The entire Lease area is already under G-1 Category. Balance reserve is not matching with the proposed figure, as the mine was opened on 19.1.2018		

Development		Proposals	Actual work	Remarks
S.N	Items			
2a	Location of development w.r.t lease area	Southeastern side of the Pit. N 140 to N 290, E 220 to E 625,	Southeastern side of the Pit. S 119 to N 316, E 214.5 to E 605,	
2b	Separate benches in topsoil, overburden and mineral(Rule 15)	Top Soil - 2 Benches: (728-722), (722-716), OB -02 Benches, (716-710), (710-704) Limestone - 03 Benches, from (704-698), (698-692), (692-685),	Top Soil - 2 Benches: (728-722), (722-716) OB -02 Benches, (716-710), (710-704) Limestone - 03 Benches, from (704-698), (698-692), (692-685),	
2c	Stripping ratio or ore to OB ratio	1: 1.332	1: 0.90	
2d	Quantity of topsoil generation in m ³	362880 m ³	220012 M ³	
2e	Quantity of overburden generation in m ³	440400 m ³	667528 M ³	
2f	General remarks of inspecting officer on development of pit w.r.t type of deposit etc.			

Exploitation		Proposals	Actual work	Remarks
S.N	Items			
3a	Number of pits proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	16,51,416 MT	9,86,282 MT	
3c	Recovery of salable/ usable mineral from ROM production	1	1	
3d	Quantity of mineral reject generation	82570.00 MT	Nil	
3e	Grade of mineral reject generation and threshold value declared	34% CaO, 4% MgO	34% CaO, 4% MgO	
3f	Quantity of sub-grade mineral generation	No proposal	NA	
3g	Grade of sub-grade mineral generation	No proposal	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	No proposal	Nil	
3j	Provision of drilling & blasting in mineral benches	Drilling:- 115 mm dia, Hole depth = 5.5 m. Spacing - 5.0 m Burden= 4.0 m Hole Charge = 36 Kg of Explosives. Detonating fuse and delay detonators will be used for sequential blasting.	Drilling:- 115 mm dia, Hole depth = 6.5 m. Spacing -5.0 m Burden= 3.0 m Hole Charge = 40.0 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	Shovel- Dumper Combination L&T PC 300 & Hyva 30 T	Shovel- Dumper combination L&T PC 300 & Hyva 30 T	

	height of benches in overburden and suitable for method of mining proposed in SOM.	Top Soil - 2 Benches: (728-722), (722-716), OB -02 Benches, (716-710), (710-704) Limestone - 03 Benches (704-698), (698-692), (692-685)	Top Soil - 2 Benches: (728-722), (722-716) OB -02 Benches, (716-710), (710-704) Limestone - 03 Benches, (704-698), (698-692), (692-685)	
3n	Total area covered under excavation / pits	14.406 ha	13.98 ha	
3o	Ore to OB ratio for the pit/mine during the year	1 : 1.332	1: 0.493	
3p	Total area put in use under different heads at the end of year	22.586 ha	19.28 ha	
3p	Production of ROM mineral during last five year, as applicable	2016-17: 1015092 MT 2017-18:1229280 MT 2018-19: 1533402 MT 2019-20: 1651416 MT	2016-17: Nil 2017-18:1,01,503 MT 2018-19: 10,23,050 MT 2019-20:9,86,282 MT	Mining activities started from 19-01-2018.
3q	General remarks of inspecting officer on method of mining etc			

Solid Waste Management- Dumping

S.N	Items	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Yes,	Yes	
4b	Location of topsoil , OB & mineral reject dumps	1) Topsoil Dump: N 349 to N 612, E 432 to E 614, 2) OB Dump S 32 to S 365 E 2 to E 211,	1) Topsoil Dump N 431 to N 602, E 386 to E 590 (2) OB Dump S 90 to S 298, E 14 to E 177,	
4c	Number of dumps within lease area and outside lease area	2 nos. within the lease area.	2 nos. within lease area	
4d	Location of dumps w.r.t ultimate pit limit (Rule 16)	1) Topsoil Dump: N 349 to N 612, E 432 to E 614, 2) OB Dump S 32 to S 365 E 2 to E 211,	1) Topsoil Dump N 431 to N 602, E 386 to E 590 (2) OB Dump S 90 to S 298, E 14 to E 177,	
4e	Number of active & alive dumps	2	2	
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps stabilised	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dump	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dump	Garland drain = 475 m	Garland drain = 475 m	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management	Systematic development of waste and soil dumps have not been carried as per the approved review of Mining plan. Therefore a violation letter against Rule 11(1) of MCDR-2017 has been issued on 04.01.2021		

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	Nil	Nil	
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	To be used for plantation works.	Used for plantation works.	
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of inspecting officer on backfilling , reclamation etc	As the mine has opened on 19.01.2018, there is no scope of backfilling & reclamation during the reporting year.		

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 August, 2020	

	<p>Quantity of worked /mined out benches available for rehabilitation (ha)</p> <p>Area of backfilling station done(ha)</p> <p>Number of saplings planted during the year</p> <p>Cumulative no. of plants</p> <p>Any other specific method of rehabilitation</p> <p>Cost incurred on watch & care during the year</p>	<p>i) NA</p> <p>ii) 23 Ha.</p> <p>iii) 200</p> <p>iv) 800 nos</p> <p>v) Nil</p> <p>vi) Rs. 20000/-</p>	<p>i) NA</p> <p>ii) 0.2301 Ha</p> <p>iii) WML - 513 Nos.</p> <p>iv) OML - 542 nos.</p> <p>Total = 1055 nos.</p> <p>v) WML - 1679 Nos.</p> <p>vi) OML - 1084 nos.</p> <p>Total = 2763 nos.</p> <p>vii) Nil</p> <p>viii) Rs. 120000/-</p>	
6c	<p>Compliance on reclamation and rehabilitation by backfilling</p> <p>i) Voids available for backfilling (L X B X D)</p> <p>ii) Void filled by waste/tailings</p> <p>iii) Afforestation on the backfilled area</p> <p>iv) Rehabilitation by making water reservoir</p> <p>v) Any other specific means</p>	<p>i) NA</p> <p>ii) Nil</p> <p>iii) NA</p> <p>iv) NA</p> <p>v) Nil</p>	<p>i) NA</p> <p>ii) Nil</p> <p>iii) NA</p> <p>iv) NA</p> <p>v) Nil</p>	iii)
6d	<p>Compliance of Rehabilitation of waste land within lease</p> <p>i) Afforestation</p> <p>ii) Area rehabilitated (ha)</p> <p>iii) Method of rehabilitation</p>	Nil	<p>i) 1055 nos of saplings in the safety barriers.</p> <p>ii) Nil</p> <p>iii) Nil</p>	Rehabilitation not started as the lease area is not yet matured.
6e	<p>Compliance of Environmental monitoring (core zone & buffer zone)</p>	Air, Noise and Water quality monitoring will be done.	Air, Noise and Water quality monitoring carried out as per the proposal during the reporting year.	
6f	<p>General remarks of inspecting officer on PMCP compliance & progressive closure operations</p>	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	NA	NA	
7b	Method of grade -wise mineral sorting i.e manual or mechanical	Mechanical	Mechanical	
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 proposal of Mineral beneficiation was given for the reporting year.		

Environment

S.N	Items	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes	
8b	Concurrent use or storage of topsoil	Yes	Yes	
8c	Separate dumps for overburden , waste rock , rejects and fines (Rule 33)	Yes	Yes	
8d	Use of overburden , waste rock, rejects and fines dumps for restoring the land to its original use.	No proposal is given in the modified Mining Plan	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)	Yes, proposed for plantation of 200 nos saplings covering an area of 0.23 ha.	<p>Plantation</p> <p>WML - 513 Nos.</p> <p>OML - 542 nos.</p> <p>Total = 1055 nos saplings planted during 2019 -20.</p> <p>Area covered</p> <p>WML = 0.2301 ha</p> <p>OML = 0.1814 ha</p>	
8g	Survival rate	Nil	<p>WML = 70.95%</p> <p>OML = 67.90%</p>	
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	Total 1055 nos saplings has been planted by the lessee and has done water sprinkling to minimize the dust. This sustains the aesthetic beauty of the mine		

Annexure of Rule 45

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	Submitted within July, 2020	
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 Manager: Umesh Kumar Geologist: Abdul Motin Barbhuiya Mining Engineer: Jyoti Prakash Panda	Mining Manager: Umesh Kumar Geologist: Abdul Motin Barbhuiya Mining Engineer: Jyoti Prakash Panda	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit: 13.98 Dump: 5.130 Road: 0.170 Total: 19.28	Pit: 13.98 Dump: 5.130 Road: 0.170 Total: 19.28	
9d	Scrutiny of Annual return on afforestation	WML: 513; OML: 542 Survival Rate WML: 70.95 ; OML: 67.90	WML: 513; OML: 542 Survival Rate WML: 70.95 ; OML: 67.90	
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-0.00 Production-986282.00 Dispatch-986282.00 Closing Stock-0.00 There is no separate stock for graded ore.	Opening Stock-0.00 Production-986282.00 Dispatch-986282.00 Closing Stock-0.00 There is no separate stock for graded ore.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex Mine Price-319.00	Crossed checked it from returns and found it correct.	
9i	Scrutiny of Annual return on fixed assets	Rs. 187053547.00	Verified from the asset register and found correct.	
9k	Scrutiny of Annual return on mining machineries	1) Back hoe : 04 2) Air compressor : 01 3) Blast Host Drill : 01 4) Dumper : 10 5) Dozer : 01 6) Water Tanker : 01	1) Back hoe: 02 2) Air compressor: 01 3) Blast Host Drill: 01 4) Dumper : 10 5) Dozer : 01 6) Water Tanker: 01	

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

Systematic development of waste and soil dumps have not been carried as per the approved review of Mining plan. Therefore a violation letter against Rule 11(1) of MCDR-2017 has been issued on 04.01.2021. Previous violations given on rule 11(1) & 33 were complied.

Vikas
21/1/21

Name of Inspecting Officer with Designation and Date