

## MCDR-MiFLOLST/6/2023-GUH-IBM\_RO\_GUH

## INDIAN BUREAU OF MINES

## MINES CONTROL AND CONSERVATION OF MINERAL DIVISION

## MCDR INSPECTION REPORT

Guwahati Regional Office

I/17752/2023

Mine file No : MCDR-MiFLOLST/6/2023-GUH-IBM\_RO\_GUH

Mine code : 38ASM299001

Date of Inspection: : 11.05.2023

General

S.N.	Particulars	
1	Name of the Mine	<b>New Umrangshu Limestone Mine</b>
2	Total Lease Area(Ha) with breakup of Non-forest and forest land	Total Lease Area 417.5 Ha Unclassified State Forest Land : 417.5 Ha.
3	Mine code	38ASM299001
4	IBM Registration Number under rule 45 of MCDR , 1988	IBM/21905/2017
5	Name of the lessee, Address, phone, email and fax number	M/s Dalmia Cement (North East) Limited, New Umrangshu,Jamunanagar,Umrangso, Dima Hasao,Assam-788931 Mobile No: 8811028649 email:dhananjaya.vemula@dalmiacement.com
6	Village	Umrangshu
7	Taluka/Mandal	Amri Mauza
8	District	Dima Hasao
9	Pin Code	788931
10	State	Assam
11	Post office	Umrangshu
12	Nearest police station	Umrangshu
13	Nearest Railway station	Lanka
14	Date of Grant of Mining Lease	27.11.1992
15	Date of Execution	27.11.1992
16	Date of opening of Mine	20.07.2021
17	Date of first Renewal , if applicable and its period & expiry	18.10.2018 (for the period of 30 years i.e. 26.11.2042)
18	Date of second Renewal , if applicable and its period & expiry	-
19	Date of submission of Renewal application if Mining operations are continuing under deemed extension	19.05.2011
20	Name of the Nominated owner with Address, phone, email, fax number and date of appointment	Shri.R.A.Krishna Kumar M/s Calcom Cement India Ltd 16 kilo, Umrangso, Dima Hasao Dist.,Assam-788931 email: ra.krishnakumar7@gmail.com Date of Appointment: 14/12/2015
21	Name of the Mine agent with Address, phone, email, fax number and date of appointment	Shri.Vemula Dhananjaya M/s Calcom Cement India Ltd 16 kilo, Umrangso, Dima Hasao Dist., Assam-788931. Mobile No: 8811028649 email: dhananjaya.vemula@dalmiacement.com Date of Appointment:25/06/2021; Resignation date: 09.03.2023  Shri Anilkumar K Ganapurapuar M/s Calcom Cement India Ltd 16 kilo, Umrangso, Dima Hasao Dist., Assam-788931. Mobile No:8247671958 Date of Appointment: 19.05.2023
22	Name of the Mines Manager with Address, phone, email,fax number and date of appointment	Shri Aleti Mahipal Reddy, B.E Mining Engineering,15 Years, M/s Calcom Cement India Ltd 16 kilo, Umrangso, Dima Hasao Dist., Assam-788931,Ph-8011002460; Appointment Date: 09.03.2022 Email:redy.aleti@dalmiacement.com
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Aleti Mahipal Reddy, B.E Mining Engineering,15 Years, M/s Calcom Cement India Ltd 16 kilo, Umrangso, Dima Hasao Dist., Assam-788931,Ph-8011002460; Appointment Date: 09.03.2022 Email:redy.aleti@dalmiacement.com
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44	Shri Abhijeet Adhikari, M.Sc Geology & Diploma in GIS, 16 Years, M/s Calcom Cement India Ltd 16 kilo, Umrangso, Dima Hasao Dist.,Assam-788931. Mobile No: 8011002451 ;Email :adhikari.abhijeet@dalmiacement.com Date of Apointment : 15.11.2021

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25	Date of Approval of Mining plan/Modified Mining plan with five year period & specific condition in approval letter, if any	Mining Plan - Approved letter no 314(3)/2011-MCCM(CZ)/MP-28; dated 10.04.2012 for the period (2012-13 to 2016-17) Review of Mining Plan - Approved letter no IBM/GHY/ASM/NCH/LST/MP-49; dated 02.02.2017 for the period (2017-18 to 2021-22). Modification of Mining Plan - Approved letter no -IBM/GHY/ASM/NCH/LST/MP-49, on dated 22.11.2021 for the period (2022-23 to 2026-27)
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five year period & specific condition in approval letter, if any	NA
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 A
30	Captive/Non Captive	Captive

**Scientific Mining :**

**Exploration**

S.N.	Items	Proposals	Actual work	Remarks
1a	Backlog of previous year			
1b	Exploration over lease area for Geological axis 1 or 2	30 Nos of Boreholes covering 2700 meters	8 No borehole drilled covering 811 Mtrs	Violation letter issued in earlier inspection carried out by DCOM on 27.12.2022
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Holtec India Pvt Ltd. Rs.18060000.00 Central agency for hired for pan india location of the group.	Rs.32,55,000	
1d	Balance area to be explored to bring Geological axis in 1 or 2	From G2 To G1 - 45.69 Ha From G3 To G1 - 371.81Ha	0	8 No borehole drilled covering 811 Mtrs however no analysis has been done yet. Therefore it has been treated as 0 .
1e	Balance reserves as on <b>01.04.2023</b>	39.6 MnMT	39.25 MnMT	
1f	General remarks of inspecting officer on geology, exploration etc.	There has been shortfall in the exploratory drilling. In this regard, violation letter has already been issued by DCOM in previous inspection carried out on 27.12.2022		

**Development**

S.N.	Items	Proposals	Actual work	Remarks
2a	Location of development w.r.t lease area	E/W 480731 To 480533 N/S 282309 To 2823110	E/W 480731 To 480717 N/S 282309 To 282333	Deviation observed.Violation letter issued in earlier inspection carried out by DCOM t on 27.12.2022
2b	Separate benches in topsoil , overburden and mineral(Rule 15)	Yes	Maintained	
2c	Stripping ratio or ore to OB ratio	1: 0.02	1:1.57	
2d	Quantity of topsoil generation in m <sup>3</sup>	Not Proposed	N/A	
2e	Quantity of overburden generation in m <sup>3</sup>	34855.98	555410	
2f	General remarks of inspecting officer on development of pit w.r.t type of deposit etc.	Deviation observed in working locations . In this regard, violation letter has already been issued in earlier inspection carried out by DCOM t on 27.12.2022.		

**Exploitation**

S.N.	Items	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	1502239.4	351894.65	Mines is in development stage has opened in the month of July'2021 after getting various permissions such as forest Clearances, EC and other Local issues
3c	Recovery of salable/ <b>usable</b> mineral from ROM production	1502239.4	351894.65	
3d	Quantity of mineral reject generation	NIL	N/A	
3e	Grade of mineral reject generation and threshold value declared	N/A	N/A	
3f	Quantity of sub-grade mineral generation	NIL	N/A	
3g	Grade of sub-grade mineral generation	N/A	N/A	
3h	Manual/Mechanised method adopted for segregating from ROM.	Mechanized	Mechanized	

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3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	N/A	N/A	
3j	Provision of drilling & blasting in mineral benches	Yes; Deep hole drilling of dia 115 mm dia.drills . Blasting proposed with nitrate mixed emulsion explosives of 83 mm dia and millisecond delay detonators	Yes ; Deep hole drilling with Atlas capco (D-45) machine (115mm dia) and Blasting operations are carried with nitrate mixed emulsion explosives of 83 mm dia. and millisecond delay detonators	
3k	Provision of mining machineries in mineral benches	Yes; 1.)2.6 cu.m. shovels – 03 nos 2) Rock breaker (0.9 cum/1500 MB) -01 no. 3) 35 MT Tippers -10 Nos. 4) Dozer -170 HP	Yes; 1.)2.6 cu.m. shovels – 03 nos 2) Rock breaker (0.9 cum/1500 MB) - 01 no. 3) 35 MT Tippers -10 Nos. 4) Dozer -170 HP	
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	2.68	8.73	
3n	Ore to OB ratio for the pit/mine during the year	1: 0.05	1:1.57	
3o	Total area put in use under different heads at the end of year	Area under Mining 2.68 Roads - 1.23 Dumps- 0.68	Area under Mining - 8.73 Roads - 1.82 Dump - 5.74	
3p	Production of ROM mineral during last five year, as applicable	2022-23 :1502239.4 T 2021-22 : 1500228 T	2022-23: 351894.65 T 2021-22: 127919.5 T	Mines has opened in the month of July'2021
3q	General remarks of inspecting officer on method of mining etc	Mines has opened in June'2021. Production started in January'2022.		

**Solid Waste Management- Dumping**

S.N.	Items	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Nil	N/A	No top soil is generated
4b	Location of topsoil , OB & mineral reject dumps	E/W 479469 - 479598 N/S 282350 - 282356	E/W - 478456 - 478915 N/S - 282220 - 282222	Deviation observed in dumping.Violation letter already been issued during earlier inspection carried out by DCOM
4c	Number of dumps within lease area and outside lease area	1 (WML)	1 (WML)	
4d	Location of dumps w.r.t ultimate pit limit (Rule 16)	E/W 479469 - 479598 N/S 282350 - 282356	E/W - 478456 - 478915 N/S - 282220 - 282222	Violations observed
4e	Number of active & alive dumps	1 No of Active Dump	1 No of Active Dump	
4f	Number of dead dumps	NIL	NIL	
4g	Number of dumps stabilized	NIL	NIL	
4h	Whether Retaining wall or garland drain all along dump	Yes	No	
4i	Length of Retaining wall or garland drain all along dump	238 m	Constructed	
4j	Number of settling ponds	NIL	NIL	
4k	Specific comments of inspecting officer on waste dump management	Dumping has not been done as per the approved Mining Plan. Sperate violation letter issued in the current inspection.		

**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	N/A	
5b	Area under backfilling of mined out area	NIL	N/A	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	NIL	N/A	
5d	Total area fully reclaimed & rehabilitated	NIL	N/A	
5e	General remarks of inspecting officer on backfilling , reclamation etc	Mine is in development stage and has not exploited the minerals yet. Therefore backfilling is not propoasae in the mine		

**Progressive Mine Closure Plan**

S.N.	Items	Proposals	Actual work	Remarks
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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	Proposed i) Plantation - 500 Nos ii) Area proposed for Plantation - 0.2 Ha iii) Retaining wall - 238 m	Submitted on : i) Plantation - 885 Nos ii) Area utilised for Plantation - 0.29 Ha iii) Retaining wall - 238 m m	
6b	Management of worked /mined out benches i)Area available for rehabilitation (ha) ii) Afforestation done(ha) ii) 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	NA	N/A	Mine is in development stage and has not exploited the minerals yet. Therefore no proposals for worked 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	Not Proposed	N/A	Mine is in development stage and has not exploited the minerals yet. Therefore no proposals for reclamation and rehabilitation.
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Not Proposed	N/A	Mine is in development stage and has not exploited the minerals yet. Therefore no proposals for reclamation and rehabilitation.
6e	Compliance of Environmental monitoring (core zone & buffer zone)	1. Ambient air quality test (core - 4 locations) & Buffer (3locations) 2. Ambient Noise Level test 10 locations 3. Raw water Analysis 2 locations	1. Ambient air quality test (core - 4 locations) & Buffer (3locations) 2. Ambient Noise Level test 10 locations 3. Raw water Analysis 2 locations 4. Drinking water test - 3 locations	
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Violation letter issued during previous inspection on less plantation. The compliance position of previous violation was found satisfactory.		

**Mineral Conservation**

S.N.	Items	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM dispatch to Captive Plant	ROM dispatch to Captive Plant	
7b	Method of grade -wise mineral sorting i.e manual or mechanical	NA	NA	
7c	Different grade of mineral sorted out at mines	NA	NA	
7d	Any beneficiation process at mines	NO	NO	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	ROM is supplied to factory located at 16 Kilo(location) at a distance 07 kms away from mine		

**Environment**

S.N.	Items	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes, proposed	Nil	No top soil was generated in the financial year.
8b	Concurrent use or storage of topsoil	Yes, proposed	Nil	No top soil was generated in the financial year.
8c	Separate dumps for overburden , waste rock , rejects and fines (Rule 33)	No Prposal for sperate dumps	Nil	Violation issued for mixing of different litho material at once place.
8d	Use of overburden , waste rock, rejects and fines dumps for restoring the land to its original use.	Not Proposed	N/A	
8e	Phased restoration , reclamation and rehabilitation of lands affected by mining operations (pits, dumps etc.)	Not Proposed	N/A	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Plantation WML 500	Planted 805 nos of Sapling WML	
8g	Survival rate	90%	75.00%	
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	The mine has opened in June'2021. Production started in January'2022. Lessee has planted 805 saplings and has carried out water sprinkling for supressing fugitive dust emmisions.This sustains the aesthetic beauty of the mine. However violation issued for not following Rule 37(1) and Rule 37(2).		

**Compliance of Rule 45**

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S.N	Item	Comments		Remarks
9a	Status of submission of Monthly and Annual returns	<b>Monthly retruns submitted upto</b>	Submitted upto April 2022	
		<b>Annual retruns submitted upto</b>	Submitted for 2021-22 on 31st May 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	<b>Mining Engineer &amp; Manager:</b> Aleti Mahipal Reddy <b>Geologist:</b> Abhijeet Adhikari	<b>Mining Engineer &amp; Manager:</b> Aleti Mahipal Reddy <b>Geologist:</b> Abhijeet Adhikari	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit: 2.68 Roads - 1.23 Dumps- 0.68	Pit: 8.73 Roads - 1.82 Dump - 5.74	
9d	Scrutiny of Annual return on afforestation	WML:500	WML: 805, OML : 1180	
9e	Scrutiny of Annual return on mineral reject generation(Grade & Quantity)	Nil	N/A	
9f	Scrutiny of Annual return on ROM stock and/ or graded ore	Nil	N/A	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex Mine Price :Rs- 322.31	Ex Mine Price : Rs- 322.31	
9i	Scrutiny of Annual return on fixed assets	Industrial: Rs.2,34,03781 Residential: Rs.31,88,444 2) plant machinery: Rs.48,91,766 3) capitalized expenditure: Rs.71,97,98,441 Total: Rs.75,12,82432	1). Building Industrial: Rs.2,34,03781 Residential: Rs.31,88,444 2) plant machinery: Rs.48,91,766 3) capitalized expenditure: Rs.71,97,98,441 Total: Rs.75,12,82432	
9k	Scrutiny of Annual return on mining machineries	1.)2.6 cu.m. shovels – 03 nos 2) Rock breaker (0.9 cum/1500 MB) -01 no. 3) 35 MT Tippers -10 Nos. 4) Dozer -170 HP	1.)2.6 cu.m. shovels – 03 nos 2) Rock breaker (0.9 cum/1500 MB) -01 no. 3) 35 MT Tippers -10 Nos. 4) Dozer -170 HP	

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

Violation issued under Rule 11(1), 37(1) and Rule 37(2).  
Earlier issued violations Rule 11(1); Partially complied

(Vikas Kumar), ACOM

Name of Inspecting Officer with Designation and Date