

INDIAN BUREAU OF MINES

MINES CONTROL AND CONSERVATION OF MINERAL DIVISION

MCDR INSPECTION REPORT

Guwahati Regional Office

I/25163/2024

Mine file No : MCDR-MiFLOLST/5/2023-GUH-IBM_RO_GUH

Mine code : 38ASM08002

Date of Inspection: : 28.11.2023

Name of Inspecting Officer: Subrata Kumar Muduli

General

S.N.	Particulars	
1	Name of the Mine	Jamunanagar Limestone Mine
2	Total Lease Area(Ha) with breakup of Non-forest and forest land	Total Lease Area 35 Ha (Non Forest)
3	Mine code	38ASM299001
4	IBM Registration Number under rule 45 of MCDR , 1988	IBM/7090/2011
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
6	Village	New Umrangshu
7	Taluka/Mandal	UMRANGSO
8	District	DIMA HASAO
9	Pin Code	788931
10	State	ASSAM
11	Post office	UMRANGSO
12	Nearest police station	UMRANGSO
13	Nearest Railway station	LANKA
14	Date of Grant of Mining Lease	16-08-1985
15	Date of Execution	11-01-1986
16	Date of opening of Mine	29-01-1991
17	Date of first Renewal , if applicable and its period & expiry	10-01-2006 (Expiry - 10.01.2036)
18	Date of second Renewal , if applicable and its period & expiry	NA
19	Date of submission of Renewal application if Mining operations are continuing under deemed extension	NA
20	Name of the Nominated owner with Address, phone, email, fax number and date of appointment	Shri. Ganesh Wamanrao Jirkuntwar, Jamunanagar, Umrangso, Assam-788931
21	Name of the Mine agent with Address, phone, email, fax number and date of appointment	Shri. Ambuj Srivastava, Unit Head, Jamunanagar, Umrangso, Assam-788931
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment	Shri K G Singh , Diploma in Mining Engineering & 1st Class Manager certificate of competency, Years, Jamunanagar, Umrangso, Assam-788931, Ph-8011002460
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Suratha Sundar Behera, B.E Mining Engineering, 16 Years, Jamunanagar, Umrangso, Assam-788931, Ph-8011002460
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44	Shri Punit Lal Mahato, M.Sc Geology , 15 Years, Jamunanagar, Umrangso, Assam-788931,
25	Date of Approval of Mining plan/Modified Mining plan with five year period & specific condition in approval letter, if any	1. Approval of MP under Rule 12 of MCDR 1960 vide letter no 314(3)/2011-MCCM(C)/MS-36 on dated 03.05.2012. 2. Approval of MS vide letter Letter No. 314(3) /2005-MCCM (C) /MP-01 under Rule 24A of MCR. 1960 in the year 2006-07 to 2010-11.

MCDR-MIFLOLST/5/2023-GUH-IBM_RO_GUH

26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five year period & specific condition in approval letter, if any	1. Approval of RoMP vide letter no - IBM/GHY/ASM/NCH/LST/MS-48 on dated 07.05.2021. 2. Approval of MoMP under Rule 17(3) MCR,2016 vide letter No - IBM/GHY/ASM/NCH/LST/MS-48 on dated 13.01.2021.(For rectify the deviations in the earlier proposals). 3. Approval of Modification of RoMP vide letter no IBM/GHY/ASM/NCH/LST/MS-48 on dated 07.05.2021.on dated 29.06.2018.(For scientific development of the deposit, conservation of the minerals and preservation of environment). 4. Approval of MoMP under Rule 17(3) of MCR 2016 vide letter no IBM/GHY/ASM/NCH/LST/MS-48 on dated 18.07.2017.(Enhancement of production capacity from 1.5 MTPA to 2.1 MTPA). 5. Approval of MoMP under Rule 22(6) of MCR 1960 vide letter no IBM/GHY/ASM/NCH/LST/MS-48/VOL-1 on dated 25.02.2016.(Extension of validity of ML).
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Opencast, 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	Nil in 2022-23	Nil in 2022-23	
1b	Exploration over lease area for Geological axis 1 or 2	Nil	Nil	Entire ML area is explored in G1 level.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	N/A	N/A	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	N/A	Entire ML area explored in G1 level.
1e	Balance reserves as on 01.04.2023	5.381 MnMT	5.604 MnMT	
1f	General remarks of inspecting officer on geology, exploration etc.	A total of 29 nos of BHs have been drilled with a average depth of 53m drilling.Exploratory Drill hole spacing is varying between 100 to 200m.		

Development

S.N.	Items	Proposals	Actual work	Remarks
2a	Location of development w.r.t lease area	E/W 478433 To 478915 N/S 282230 To 282266	E/W 478433 To 478915 N/S 282230 To 282266	
2b	Separate benches in topsoil , overburden and mineral(Rule 15)	Yes	Separate Benches in Ore and OB is maintained.	Top soil is not avialble within he mine as of now.
2c	Stripping ratio or ore to OB ratio	1 : 0.28	1 : 0.23	
2d	Quantity of topsoil generation in m ³	Not Proposed	Nil	
2e	Quantity of overburden generation in m ³	425537.89	297040	Violation under rule 11(1) of MCDR-2017 issued for not achieving waste generation in 2022-23 as per the approved proposal for 2022-23..
2f	General remarks of inspecting officer on development of pit w.r.t type of deposit etc.	The deposit is being mined by opencast mechanised method of mining.Pit dimension is 616m X 482m.		

Exploitation

S.N.	Items	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	1492899.71	1269326.36	
3c	Recovery of salable/ usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral reject generation and threshold value declared	N/A	N/A	
3f	Quantity of sub-grade mineral generation	NIL	NIL	
3g	Grade of sub-grade mineral generation	N/A	N/A	

MCDR-MIFLOLST/5/2023-GUH-IBM_RO_GUH

1/25163/2024

3h	Manual/Mechanised method adopted for segregating from ROM.	No proposal of segregation is approved.	NIL	No Segregation is warranted as recovery of salable ore from ROM is 100%.
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No such proposal approved.	NIL	
3j	Provision of drilling & blasting in mineral benches	3nos drilling machine each of 115mm dia,Spacing-3.5m,Burden-3m,Bench height-8m,Hole depth-9m,Initiation-By NONEL.	3nos drilling machine each of 115mm dia,Spacing-3.5m,Burden-3m,Bench height-8m,Hole depth-9m,Initiation-By NONEL.	
3k	Provision of mining machineries in mineral benches	Dumper-25 tonners-12 nos,Excavator-0.9m3-8 nos,Dozer-160 HP-1no,water tanker-10KL-1 no	Dumper-35 tonners-13nos,Excavator-2.1m3-3nos,Excavator-3.2m3-1no,Dozer-160 HP-1no,water tanker-10KL-1 no	Mechanised Mining with the combination of deep hole drilling and blasting.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM.	Suitable.	Boom height of excavator is suitable for the bench height of OB and mineral.	
3m	Total area covered under excavation / pits	23.158 Ha	22.5 Ha	
3n	Ore to OB ratio for the pit/mine during the year	1: 0.28	1:0.23	
3o	Total area put in use under different heads at the end of year	Area under Mining - 23.158 Roads - 1.33 Dumps- 7.991	Area under Mining - 22.5 Roads - 1.232 Dump - 5.722	
3p	Production of ROM mineral during last five year, as applicable	FY 2022-23 (1492899.71) FY 2021-22 (1497474.72) FY 2020-21- FY 2019-20 (2098091.75) FY 2018-19 (2099476.25)	FY 2022-23 (1269326.36) FY 2021-22 (1492454.22) FY 2020-21-(1421216.28) FY 2019-20 (1435432.07) FY 2018-19 (1447721.80)	
3q	General remarks of inspecting officer on method of mining etc	The mine is being operated by open cast mechanised method by adopting deep hole drilling and blasting in combination with deployment of excavators and tippers.		

Solid Waste Management- Dumping

S.N.	Items	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	N/A	N/A	Separate dumping of waste proposed during 2022-23.
4b	Location of topsoil , OB & mineral reject dumps	E/W 478612 - 478891 N/S 2821980 - 282209	E/W 478612 - 478891 N/S 2821980 - 282209	
4c	Number of dumps within lease area and outside lease area	One	One active waste dump.	
4d	Location of dumps w.r.t ultimate pit limit (Rule 16)	Within ML	Within ML	
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	Yes	
4i	Length of Retaining wall or garland drain all along dump	Maintainance	Maintainance	
4j	Number of settling ponds	NIL	NIL	
4k	Specific comments of inspecting officer on waste dump management	Waste dumping has not been carried out in terraced manner in south part of the waste dump.Terracing needs to be done.Violation issued u/r 37(2) and 37(5) of MCDR-2017 has been issued.		

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	Full extraction of mineral from mined out area to be done before starting backfilling	Mineral full extracted before sating backfilling.	
5b	Area under backfilling of mined out area	3.329 Ha in 2022-23. 263344 m3 (2022-23)	1.14 Ha Area partially backfilled in 2022-23.151731 m3 (2022-23)	As on date of inspection 1.60Ha has been partially backfilled.

MCDR-MIFLOLST/5/2023-GUH-IBM_RO_GUH

1/25163/2024

5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	No such proposal approved as there is no availability of top soil.	NIL	
5d	Total area fully reclaimed & rehabilitated	No such proposal approved	Nil	
5e	General remarks of inspecting officer on backfilling , reclamation etc	As on date partial backfilling over an area of 1.60 Ha area has been done within the ML bounded by co-ordinates 478721.00 m E-478914.00 m E,2822459.00 m N-2822298.00 m N. There was a proposal of back filling by waste of 263344.69 m3 in 2022-23 where as during 2022-23 151731 m3 waste only back filled. Violation under rule 11(1) of MCDR-2017 issued for not carrying out backfilling to the extent in 2022-23 as proposed.		

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	To be submitted within 1st July for the previous FY	Submitted within time.	
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) No such proposal approved. ii) No such proposal approved. iii) No such proposal approved. iv) No such proposal approved. v) No such proposal approved. vi) No such proposal approved.	i) Mining activity is in dynamic stage in part of the ML area. Hence, no rehabilitation of mined out benches. ii) Nil iii) Nil iv) Nil. v) Nil vi) Nil.	
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) 263344 m3 voids available for backfilling ii) 263344 m3 voids to be filled by backfilling iii) No such proposal approved. iv) No such proposal approved. v) No such proposal approved.	i) 151731m3 voids available for backfilled ii) 151731m3 voids backfilled iii) Nil. iv) No such proposal approved. v) Nil.	In 2023-24, Backfilling proposal-14796 M3 against which upto 31.10.2023 the backfilling has been done by 11680 m3 waste.
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	300 nos of sapling plantation in 7.5m safety barrier zone(0.35 Ha area) in 2022-23	805 nos of sapling plantation in 7.5m safety barrier zone(0.35 Ha area) in 2022-23	In 2023-24, 675 nos sapplings plantation has been done upto 31.10.2023.
6e	Compliance of Environmental monitoring (core zone & buffer zone)	1. Ambient air quality test (core - 3 poits) & Buffer (3 points) 2. Ambient Noise Level test 5 points 3. Raw water Analysis 2 points 4. Drinking water test - 3 points (Quarterly monitoring by third party)	1. Ambient air quality test (core - 3 poits) & Buffer (3 points) 2. Ambient Noise Level test 5 points 3. Raw water Analysis 2 points 4. Drinking water test - 3 points (Quarterly monitoring by third party)	Environmental monitoring is being done quarterly. All the parameters are within permissible limits.
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Lessee has utilised 151731 m3 waste for backfilling, maintained the retaining wall and planted 805 nos of sapplings in 7.5m safety barrier during 2022-23.		

Mineral Conservation

S.N.	Items	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No Sorting of ROM was proposed and entire ROM to	No Sorting of ROM was done and entire produced ROM was	
7b	Method of grade -wise mineral sorting i.e manual or mechanical	No such proposal approved.	Nil	
7c	Different grade of mineral sorted out at mines	No such proposal approved.	Nil	
7d	Any beneficiation process at mines	No such proposal approved.	Nil	

MCDR-MIFLOLST/5/2023-GUH-IBM_RO_GUH

7e 1/25163/2024	General remarks of inspecting officer on Mineral Conservation & beneficiation issues	Cement Grade Limestone is directly usable in cement plant.No beneficiaion is warranted.
--------------------	--	---

Environment

S.N.	Items	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No such proposal approved.	Nil during 2022-23.	
8b	Concurrent use or storage of topsoil	No such proposal approved.	When ever there is production of top soil, the same is being used for Green bel deelopement and extra quantity to be staked.	
8c	Separate dumps for overburden , waste rock , rejects and fines (Rule 33)	Yes	One active waste dump over 7.4592 Ha area.	
8d	Use of overburden , waste rock, rejects and fines dumps for restoring the land to its original use.	2022-23(Back filling of 3.329 Ha mined out area by 263344 m3 waste).	In 2022-23, Back filling of 1.14 Ha mined out area has been done by 151731 m3 waste.	
8e	Phased restoration , reclamation and rehabilitation of lands affected by mining operations (pits, dumps etc.)	2022-23(Back filling of 3.329 Ha mined out area by 263344 m3 waste).	In 2022-23, Back filling of 1.14 Ha mined out area has been done by 151731 m3 waste.	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	2022-23-Plantation WML 300 Nos	2022-23-Planted 820 nos of Sapling WML.Form inception of the mine a total of 8062 nos sapplings planted WML and out of which 6249 plants survived.56929 nos sapplings planted OML out of which 36294 plants survived.	
8g	Survival rate	No such proposal approved.	77.00%	
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	Lessee has planted trees in 7.5m safety arrier zone and out side mining lease to maintain aesthetic eauty in and around themines area.		

Compliance of Rule 45

S.N.	Item	Comments	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly retruns to be submitted everytime before 10th of each month for the preceeding month. AR to be submitted on or before 1st July of every year for preceeding year.	Monthly return upto Oc 2023 submitted. Annual return for 2022-232 has been submitted.
S.N	Item		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Suratha Sundar Behera (Mining Engineer) Punit Lal Mahto (Geologist)	Suratha Sundar Behera (Mining Engineer) Punit Lal Mahto (Geologist)
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under Mining - 22.5 Roads - 1.232 Dump - 5.722 Infrastructure-0.33	Area under Mining - 23.94 Ha (As on date of inspection) Roads - 1.232 Dump - 7.4592 Ha area (As on date of inspection) Infrastructure-0.33
9d	Scrutiny of Annual return on afforestation	WML(820), OML (1130)	WML(820), OML (1130)
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	Nil	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex Mine Price (Rs- 320.90)	Ex Mine Price (Rs- 320.90)
9i	Scrutiny of Annual return on fixed assets	Rs- 11535705/-	Rs- 11535705/-

MCDR-MIFLOLST/5/2023-GUH-IBM_RO_GUH

I/25163/2024	9k Scrutiny of Annual return on mining machineries	Back Hoe- 4 Dumper - 13 Dozer - 1 Blast Hole Drill - 2	Back Hoe- 4 Dumper - 13 Dozer - 1 Blast Hole Drill - 2	
--------------	--	---	---	--

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

Violation under rule 11(1)of MCDR-2017 issued for not carrying out backfilling ,not generating waste, not developing bench in mineral and waste as per the approved proposals for 2022-23.Violation issued under rule 37(2),37(5) of MCDR-2017 for not dumping waste in terraced manner in south part of the waste dump.

Subrata Kumar Muduli,Senior Mining Geologist

Name of Inspecting Officer with Designation and Date

I/25163/2024



0

0

I/25163/2024

--	--

