

**MCDR INSPECTION REPORT**

Date of Inspection : 09.10.2024

Name of Inspecting Officer: Subrata Kumar Muduli-Senior Mining Geologist

S. N.	Particulars	Details
1	Name of the Mine	<b>Umsoo Mootang Limestone Mines (DCBL) Block-III</b>
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease Area 4.90 Ha Forest Land.
3	Mine code	38 MEG 03018
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/929/2011
5	Name of the lessee, Address, phone, email and fax number	Registered office: M/S Dalmia Cement (Bharat) Limited, Dalmiapuram,
6	Village	Dalmiapuram,
7	Taluk/Mandal	Nil
8	District	Tiruchirapalli
9	Pincode	621 651
10	State	Tamilnadu
11	Post office	Dalmiapuram
12	Nearest police station	Kalakudi
13	Nearest Railway station	Kallakkudi Palanganatham
14	Date of Grant of Mining Lease	14/12/2016
15	Date of Execution	21/12/2016
16	Date of opening of Mine	01/10/2018
17	Date of first Renewal, if applicable and its period & expiry	NA
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	Sh. Venkatesan Thyagarajan M/s Dalmia Cement (Bharat) Limited Umsoo Mootang, Village : Thangskai, P.O. Lumshnong, District : East Jaintia Hills, Meghalaya. 793 210. Date of appointment: 18.05.2018
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Raju Ranjan Prasad M/s Dalmia Cement (Bharat) Limited Umsoo Mootang, Village : Thangskai, P.O. Lumshnong, District : East Jaintia Hills, Meghalaya. 793 210. Email- prasad.raju@dalmiacement.com Mob: 9862088558 Date of Appointment:-28.09.2022
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Sh. Manoj Kumar Sinha M/s Dalmia Cement (Bharat) Limited, Umsoo Mootang, Village: Thangskai, P.O. Lumshnong, District:- East Jaintia Hills, Meghalaya. 793210. Email-sinha.manoj@dalmiacement.com Mob:9612159673, Date of Appointment: 06.01.2024
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Sh. Deo Prakash, B.E. (Mining), 16.5 Years Experience M/s Dalmia Cement (Bharat) Limited, Umsoo Mootang, Village:- Thangskai, P.O. Lumshnong, District:- East Jaintia Hills, Meghalaya. 793210. Email-PRAKASH.DEO@dalmiacement.com Mob: 6909313683, Date of Appointment: 19.01.2024
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	<b>Yes.</b> <b>Geologist:-</b> Shri Prasenjit Chatterjee (M.Sc. in Applied Geology) Experience:- 10.5 Years, Date of appointment:-04.04.2023 <b>Mining Engineer:-</b> Shri. Deo Prakash, B.E. (Mining),

		Experience: 16.5 Years, Date of appointment:-19.01.2024
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	1. MP-314(3)/2009 MCCM/CZ/MP/21, dated 03.12.2009 2. IBM/GHY/MEG/JNH/LST/MP-85, dated 10.09.2021
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Nil
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Open cast, Underground)	Open cast Working
29	Category (Fully Mechanised, Others or Manual)	Fully mechanized
30	Captive/ Non captive	Captive

**Scientific Mining:** Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

### Exploration

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2021-22-1 NOS. PDTH-1 (100MX100M)-50M 2 Nos. PCBH-2& 3 (100MX100M)-200M	3 Nos. NQ CORE-294M COMPLETED.(FY-2023-24)	Already violation u/r 11(1) was issued on 29.09.2022 and now stands complied.
1b	Exploration over lease area for Geological axis 1 or 2.	0.296 Ha.	0.296 Ha.	Entire mining lease area is now explored under G1 level.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No such details approved.	M/s Natural Resources Exploration & Mining Pvt. Ltd.  Plot No. 360/6735, Besides Prusty Fashion, Near Damana Market, Damana, Chandrasekharpur, Bhubaneswar, Odisha ☎09238104206 (O), Mobile- 09437579085, 07978904103 E-mail:- nremp08082017@gmail.com; Expenditure: Rs. 9.73398 Lakhs	----
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserves as on 31.03.2024	1,664,496 Tonnes	1,699,369 Tonnes	
1f	General remarks of inspecting officer on geology, exploration etc.	Entire lease area has been explored by G1 level of Exploration. A total of 8 nos of core bore holes have been drilled for a total meterage of 569 m. Earlier violation pertaining to exploration u/r 11(1) dated 29.09.2022 has been complied.		

**Development**

S.N	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	No OB development proposed during 2023-24.	No OB development has been done during 2023-24.	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	To maintain separate benches of overburden and mineral as per rule	Separate Benches in OB and Mineral are maintained.	
2c	Stripping ratio or ore to OB ratio	1:0(During 2023-24 No OB generation accessed)	1:0	
2d	Quantity of topsoil generation in m3	No top soil generation accessed	Nil	
2e	Quantity of overburden generation in m3	During 2023-24 No OB generation accessed	Nil	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Lessee is developing the first Limestone band (Umlatodoh Limestone band). There is a single Mining Pit of 0.807 Ha. Mechanized mining is being done.		

**Exploitation**

S.N	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1 (one)	1 (one)	
3b	Quantity of ROM mineral production proposed	15562 MT	12315 MT	
3c	Recovery of salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation (Ton)	3011 MT	0	
3e	Grade of mineral reject generation and threshold value declared	CaO-41.84%, MgO-8.67%	MR has not been generated during 2023-24.	
3f	Quantity of sub-grade mineral generation	No such proposal approved for 2023-24.	NIL	
3g	Grade of sub-grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	No such proposal approved for 2023-24	Segregation has not been carried out during 2023-24.	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No such proposal approved for 2023-24 as quality of ROM is of cement grade.	Nil	
3j	Provision of drilling & blasting in mineral benches	Drilling Dia: 115 mm Hole depth :9 m Spacing : 3.5 m Burden: 3.0 m Hole charge: 6.5 Ton/kg  Blasting Method: Slurry/Emulsion/ANFO/Ratio of	Drilling Dia: 115 mm Hole depth :9 m Spacing : 3.5 m Burden: 3.0 m Hole charge: 6.5 Ton/kg  Blasting Method: Slurry/Emulsion/ANFO/Ratio	

		Primer/ booster charge and ANFO/column charge will be 10-20:90-80, MS delay detonators/ nonel/Relays with cordex detonating fuse/electric detonator	of Primer/ booster charge and ANFO/column charge will be 10-20:90-80, MS delay detonators/ nonel/Relays with cordex detonating fuse/electric detonator	
3k	Provision of mining machineries in mineral benches	Backhoe-1(1.60 Cum) Dumper-2 (28.00 Ton) Drilling Machine-1 (115mm) Air compressor-1 (450 cum/min) Dozer-1 (160 HP)	Backhoe-1(1.60 Cum) Dumper-2 (28.00 Ton) Rock drill-1 (115mm) Air compressor-1 (450 cum/min) Dozer-1 (160 HP)	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	OB-6m, Ore-9m	OB-6m, Ore-9m	
3m	Total area covered under excavation/pits	1.0104 Ha.	0.8070 Ha.	
3n	Ore to OB ratio for the pit/mine during the year	1:0	1:0	No OB generated
3o	Total area put in use under different heads at the end of year	1.7376 Ha.	1.8047 Ha.	
3p	Production of ROM mineral during last five-year period, as applicable	2019-20:-548000.00 MT 2020-21:-688000.00 MT 2021-22:- 29114.00 MT 2022-23:-34954 .00 MT 2023-24:- 15562.00 MT	2019-20:-16335.00MT 2020-21:-NIL 2021-22:- 28980.00 MT 2022-23:-3462.00 MT 2023-24:- 12315.00 MT	
3q	General remarks of inspecting officer on method of mining etc.	The mine is being operated by open cast mechanized method by adopting deep hole drilling and blasting in combination with deployment of excavators and tippers.		

#### Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	YES for OB	Yes, Separate dumping for Overburden	
4b	Location of topsoil, OB & mineral reject dumps	MR Stack yard -E435165-E435209 N-2785370-N2785386	There is no MR generation during 2023-24 hence no stacking.	Generation of OB has not been proposed and also not generated. Existing Old OB dump location is E435363-E435427 N-2785269-N2785352
4c	Number of dumps within lease area and outside lease area	1	1	No dump outside lease area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL	Within UPL	OB dump is temporary in nature.
4e	Number of active & alive dumps	1	1	

4f	Number of dead dumps	NIL	NIL	
4g	Number of dumps stabilized	NIL	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there	In 2023-24, n Retaining wall –Nil, Garland drain-Nil Covering part of dump.	Retaining wall –39m, Garland drain-Nil 19m	Only old OB dump exist.
4i	Length of Retaining wall or garland drain all along dump	Retaining wall –Nil, Garland drain-Nil	Retaining wall –39m, Garland drain-Nil 19m	
4j	Number of settling ponds	NIL	NIL	
4k	Specific comments of inspecting officer on waste dump management.	Waste dump is of only 4 m height. Hence terracing has not been started. However provision of Retaining wall and garland drain has been provided.		

### Solid Waste Management-Backfilling

S.N.	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No such proposal approved.	Mineral is yet to be mined out.	As of now no part of the lease area is matured to start back filling.
5b	Area under backfilling of mined out area	No such proposal approved.	Nil	-do-
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No such proposal approved.	Being utilised for green belt development in 7.5m safety zone area.	
5d	Total area fully reclaimed & rehabilitated	No such proposal approved.	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Mineral is yet to be mined out, hence no part of the lease area is matured to start back filling, reclamation.		

### Progressive Mine Closure Plan

S.N.	Item	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.	As per rule 26 (2) PMCP report to be submitted before 1 <sup>st</sup> day of July every year	Yes, submitted through return portal of IBM on 30.03.2024 and also through hard copy vide letter no. DCBL/Mines/2024-25/54 dated 30.06.2024	
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	No such proposal approved. i) NA ii) NA iii) NA iv) NA v) NA vi) NA	i) NA ii) NA iii) NA iv) NA v) NA vi) NA	Mineral is yet to be exhausted upto the UPL. Hence, no rehabilitation of mined out benches.
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D)	No such proposal approved. i) NA	i) NA ii) NA iii) NA	Mineral yet to exhaust .Hence, no reclamation and

	ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	ii) NA iii) NA iv) NA v) NA	iv) NA v) NA	rehabilitation by back filling.
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	No such proposal approved.  However in 50 nos. sapling plantation proposed within the lease area over -0.148 Ha.	No waste land within the ML hence no Rehabilitation of waste land.  However a total of 70 nos. of saplings planted within the lease area over- 0.05ha.	However 1810 nos cumulative saplings has been planted within the ML & 1876 nos. cumulative sapplings planted Outside ML.
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Quarterly Monitoring of AAQ, Water Quality, Noise Level in core and buffer zone	Being done regularly.	
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Mineral yet to exhaust and the mining activity is in dynamic stage. Hence, no reclamation and rehabilitation by back filling and rehabilitation of mined out benches have been done. Lessee is doing environmental monitoring at regular interval.		

#### Mineral Conservation

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM to be dispatched for captive use.	12315 tonnes ROM dispatched for captive use.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No such proposal approved.	No sorting as the entire ROM grade is of cement grade	
7c	Different grade of mineral sorted out at mines	No such proposal approved.	Nil	
7d	Any beneficiation process at mines	No such proposal approved as entire Limestone is feedable in the Cement Plant.	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Limestone ROM grade is suitable for Cement production. Hence Mineral Beneficiation is not required.		

#### Environment

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	To be removed separately.	Nil during 2023-24.	No top soil generation during 2023-24.
8b	Concurrent use or storage of topsoil	No proposals for 2023-24. In future Topsoil to be used for plantation and additional quantity to be stored.	Nil during 2023-24.	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes, Only one dump for Waste/OB	One Waste/OB dumping area 0.1750 Ha., Length-83 m, Width-21 m, Height-4m	Old OB dump. During 2023-24 there is no generation of waste/OB.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal approved.	Nil as no part of the lease area is matured to start backfilling.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposal approved.	Mineral yet to exhaust. Hence, no restoration, reclamation and rehabilitation started.	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	During 2023-24 Saplings: 50 Nos. (0.148 Ha) Within lease	During 2023-24 Saplings:- 70 Nos. within Lease & 123 Nos. Outside lease area.	However 1810 nos cumulative saplings has been planted within the ML & 1876 nos. cumulative sapplings planted Outside ML.
8g	Survival rate	No such proposal approved.	WML- 72 % & OML- 61 %	
8h	Water sprinkling on roads to control airborne dust	Yes	Static Water sprinkler and water tanker 6KL capacity is used for to control the airborne dust. Water sprinkler is being done at regular interval to prevent dust due to mining operation.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Lessee is carrying out plantation within the mining lease and out side the mining lease to improve the aesthetic beauty in and around the mining lease.		

#### Compliance of Rule 45

S.N.	Item	COMMENTS	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to Aug-24. Annual return for FY2023-24.	MR and AR Submitted

S.N.	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	<b>Mining Engineer:-</b> Shri Deo Prakash, <b>Mines Manager:-</b> Shri Manoj Kumar Sinha <b>Geologist:-</b> Shri Prasenjit Chatterjee	<b>Mining Engineer:-</b> Date of joining:- 19.01.2024 <b>Geologist:-</b> Date of joining:- 04.04.2023 <b>Mines Manager:-</b> Date of joining:- 06.01.2024	Resignation date- of Amrit Pegu:- Mining Engineer 06.12.2023, (Shishupal Singh):- Mines Manager- 19.01.2024, (Chandrasekhar Sharma):- Geologist - 20.01.2023
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	<b>Pit :</b> 0.8070 Ha. <b>Temporary dump:</b> 0.175 Ha. <b>Infrastructure &amp; road:</b> 0.3667 Ha.	<b>Pit :</b> 0.8070 Ha. <b>Temporary dump:</b> 0.175 Ha. <b>Infrastructure &amp;</b>	

		<b>Green Belt : 0.456 Ha.</b>	<b>road: 0.3667 Ha.</b> <b>Green Belt : 0.456 Ha.</b>	
9d	Scrutiny of Annual return on afforestation	Saplings: Within Lease area(WML)- 70 Nos.	Saplings: Within Lease area(WML)- 70 Nos.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	No MR Stacking observed.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening stock-0.00 Production-12315.00 T Despatch:- 12315.00 T Closing Stock- 0.00	Opening stock-0.00 Production-12315.00 T Despatch:- 12315.00 T Closing Stock- 0.00	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-Mine Price- Rs. 345.01 Rupees/ton	Ex-Mine Price- Rs. 345.01 Rupees/ton	
9i	Scrutiny of Annual return on fixed assets	Rs. 944338130/-	Rs. 944338130/-	Include details in respect of all the five mines of the Lessee.
9k	Scrutiny of Annual return on mining machineries	1. Backhoe-1(1.60 Cum) 2. Dumper-2 (28.00 Ton) 3. Rock drill-1 (115mm) 4. Air compressor-1 (450 cum/min) 5. Dozer-1 (160 HP)	1. Backhoe-1(1.60 Cum) 2. Dumper-2 (28.00 Ton) 3. Rock drill-1 (115mm) 4. Air compressor-1 (450 cum/min) 5. Dozer-1 (160 HP)	

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

Earlier Violations issued under rule 34A(2) and 11(1) of MCDR-2017 has already been complied.

Subrata Kumar Muduli  
Senior Mining Geologist  
(Name of inspecting officer with designation and date)