

**MCDR INSPECTION REPORT**

Name & Designation of Inspecting Officer: Subrata Kumar Muduli, Senior Mining Geologist

Date of Inspection: 7<sup>th</sup> & 8<sup>th</sup> August 2023

<b>S. N.</b>	<b>Particulars</b>	<b>Details</b>
1	Name of the Mine	Sutnga Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	230 ha non forest land
3	Minecode	38MEG657002
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/22638/2019
5	Name of the lessee, Address, phone, email and fax number	M/s Cosmos Cements Limited, Village- Thangskai, District- East Jaintia Hills, State- Meghalaya - 793201
6	Village	Salang
7	Taluk/Mandal	Sutnga
8	District	East Jaintia Hills
9	Pincode	793200
10	State	Meghalaya
11	Post office	Sutnga
12	Nearest police station	Khliehriat
13	Nearest Railway station	Badarpur
14	Date of Grant of Mining Lease	2 <sup>nd</sup> Sep, 2010
15	Date of Execution	7 <sup>th</sup> Apr, 2011
16	Date of opening of Mine	4 <sup>th</sup> Sep, 2022 (reopening)
17	Date of first Renewal, if applicable and its period & expiry	
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	
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Harmit Singh Sethi Village- Thangskai, PO- Lumshnong, District- East Jaintia Hills, Meghalaya - 793210 Phone: 011-23465175 Email:

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		<a href="mailto:sethi.harmit@dalmiabharat.com">sethi.harmit@dalmiabharat.com</a> Date of appointment: 6 <sup>th</sup> July, 2020
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Hemant Sharma Village- Thangskai, PO- Lumshnong, District- East Jaintia Hills, Meghalaya - 793210 Phone: 6909367704 Email: <a href="mailto:sharma.hemant1@dalmiabharat.com">sharma.hemant1@dalmiabharat.com</a> Date of appointment: 21 <sup>st</sup> December, 2022
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Manoj Kumar Sinha M/s Cosmos Cements Limited, Village- Salang, Elaka-Sutnga, District- East Jaintia Hills, Meghalaya - 793200 Phone: 9612159673 Email: <a href="mailto:sinha.manoj@dalmiacement.com">sinha.manoj@dalmiacement.com</a> Date of appointment: 18 <sup>th</sup> August, 2019
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Dhananjay Kumar BE (Mining), Experience: 25 years Village- Thangskai, PO- Lumshnong, District- East Jaintia Hills, Meghalaya - 793210 Phone: 8974008009

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		Email: <a href="mailto:kumar.dhananjay@dalmiabharat.com">kumar.dhananjay@dalmiabharat.com</a> Date of appointment: 26 <sup>th</sup> September, 2019
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	314(3)2008-MCCM(CZ)/MP-7 Dated 28.07.2007(2011-12 to 2015-16), IBM/GHY/MEG/EJNH/LST/MP-91 Dated 10.04.2019(2019-20 to 2020-21), IBM/GHY/MEG/JNH/LST/MP-91 Dated 07.06.2020(2020-21 to 2025-26)
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	07/06/2022
27	Mineral(s) granted in lease and proved for mining	Limestone & Shale
28	Method of Mining(Open cast, Underground)	Open cast
29	Category (Fully Mechanised, Others or Manual)	Fully mechanized
30	Captive/ Non captive	Non 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	12 nos core bore holes in 2022-23	Nil during 2022-23	As on date of inspection a total of 6 nos of Core Boreholes for a total drilling meterage of 845.50 m completed

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				and still exploration is under progress.
1b	Exploration over lease area for Geological axis 1 or 2.	100.36 hectare( During 2022-23 and 2023-24	Nil during 2022-23	Exploration under progress.
1c	Exploration Agency & Expenditure in lakh Rupees during the year		Udaipur MinTech Pvt Ltd.	Exploration is still under progress.Rate of per meter core drilling Rs 2500.00.
1d	Balance area to be explored to bring Geological axis in 1 or 2	100.37 hectare	Exploration is still under progress.	
1e	Balance reserves as on 01.04.2023	85.099million tones	85.156 million tones	
1f	General remarks of inspecting officer on geology, exploration etc.	Exploration is under progress to explore the entire ML area under G1 level of exploration.		

## Development

S.N	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Mining Pit E448163.177m N2799136.946 m to E448201.822m N2799286.966 m	Mining Pit is bound by E448261.86- E448350.61,N2799347.3 1m- N2799231.58m	Due to no drilling & blasting, development is done in the area where limestone pinnacles are exposed. Deviation observed and violation issued u/r 11(1) of MCDR-2017.
2b	Separate benches in topsoil, overburden and mineral	Nil	Nil	

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	(Rule 15)			
2c	Stripping ratio or ore to OB ratio	0.029	Nil	
2d	Quantity of topsoil generation in m3	7946.48m3	Nil	
2e	Quantity of overburden generation in m3	885	Nil	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The top pinnacles of Limestone are being mined out by deploying Rock Breaker for developing a smooth ground for large scale mining by deep hole drilling and blasting and utilizing HEMM.		

### Exploitation

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	61031	4000	
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	Nil	Nil	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade mineral generation	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or	Nil	Nil	

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	beneficiation study proposed & carried out for sub-grade mineral and reject			
3j	Provision of drilling & blasting in mineral benches	Nil	Nil	
3k	Provision of mining machineries in mineral benches	Yes	Yes	
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	0.67 hectare	0.09 hectare	
3n	Ore to OB ratio for the pit/mine during the year	0.029	0.0	
3o	Total area put in use under different heads at the end of year	21.12 hectare	41.01 hectare	
3p	Production of ROM mineral during last five-year period, as applicable	2019-20 to 2020-21- 700049.32 T 2021-22- Lapsed 2022-23 -61031 T	2019-20 to 2020-21- Nil 2021-22- Nil 2022-23 -4000 T	
3q	General remarks of inspecting officer on method of mining etc.	No deep hole drilling and blasting is being done. Mining is being done by Rock Breaker and Excavator.		

### Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Yes	Nil	
4b	Location of topsoil, OB & mineral reject dumps	Topsoil: E448166.744 N279953.863 to E448216.525 N2799420.363 OB: E448166.742 N2799466.824 to E448216.525 N2799486.278	Nil	Mining Location has been changed.
4c	Number of dumps within lease area and outside lease area	1	Nil	

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4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	OB: E448166.742 N2799466.824 to E448216.525 N2799486.278	Nil	Due change in mining location, Waste and top soil has not been generated and no dumping activity carried out.
4e	Number of active & alive dumps	1	Nil	-do-
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	Yes	Nil	
4i	Length of Retaining wall or garland drain all along dump	Retaining wall: 248 meter Garland drain: 262 meter	Nil	Waste and top soil has not been generated hence no dump and no construction of Retaining wall and Garland drain, settling pond.
4j	Number of settling ponds	1	Nil	-do-
4k	Specific comments of inspecting officer on waste dump management.	Waste and top soil has not been generated hence no dump and no construction of Retaining wall and Garland drain.		

### Solid Waste Management-Backfilling

S.N.	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area	Nil	Nil	Mineral is yet to exhaust.

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	before starting backfilling			Hence no part of the lease area is matured to start backfilling.
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Nil	Nil	As per approved document Top Soil is to be used for green belt development and balance quantity to be stacked.
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Mineral is yet to exhaust. No part of the lease area is matured to start backfilling, 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.	PMCP report to be submitted before 1st day of July of Every Year	Submitted.	
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) Nil ii) Nil iii) Nil iv) Nil v) Nil vi) Nil	i) Nil ii) Nil iii) Nil iv) Nil v) Nil vi) Nil	Mineral yet to exhaust and the mining activity is in dynamic stage. Hence, no rehabilitation of mined out benches.



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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) Nil ii) Nil iii) Nil iv) Nil v) Nil	i) Nil ii) Nil iii) Nil iv) Nil v) Nil	Mineral yet to exhaust and the mining activity is in dynamic stage. Hence, no reclamation and rehabilitation by backfilling.
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) Nil ii) Nil iii) Nil	i) Nil ii) Nil iii) Nil	No such proposal approved. However against the proposal of 500 nos of sapling plantation in 0.50 Ha within the 7.5m safety barrier of ML, the lessee has not done any sapling plantation. Hence violation under rule 11(1) of MCDR-2017 issued.
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Monitoring of air, noise, water & soil	No environmental monitoring done during 2022-23.	Hence violation under rule 11(1) of MCDR-2017 issued.
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	There are no of deep pits for wining coal and are not safe. Proposed Sapling plantation, ML boundary fencing, Environmental Monitoring has not been carried out. Violation letter has been issued. Letter issued to DMR, State Govt. of Meghalaya on 05.09.2023 for mining of coal.		

## Mineral Conservation

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	100% of ROM to be dispatched	Nil	Stacked within the mine.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Nil	Nil	
7c	Different grade of mineral sorted out at mines	Nil	Nil	
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The Lessee has reported 100% ore recovery. There is no generation of mineral reject and no issue of beneficiation.		

## Environment

S. N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	To be removed separately.	Nil during 2022-23.	
8b	Concurrent use or storage of topsoil	Topsoil to be utilized for plantation and balance quantity to be stacked.	Nil during 2022-23 due to shift in location of mining in comparison to approved location of mining of 2022-23.	
8c	Separate dumps for overburden, waste rock,	Yes	Nil	

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	rejects and fines (Rule 33)			
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.	As per approved document dumping to be done.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposal approved.	Nil	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	500 nos. saplings to be planted over an area of 0.5 hectare during 2022-23.	Nil	
8g	Survival rate	No such proposal.	NA	
8h	Water sprinkling on roads to control airborne dust	Water Sprinkling on Haul roads	Water sprinkling by water tanker over haul roads is being carried out regularly.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			

**Compliance of Rule 45**

<b>S.N</b>	<b>Item</b>	<b>COMMENTS</b>	<b>Remarks</b>
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to June,2023 and Annual return submitted for 2022-23.	

<b>S.N.</b>	<b>Item</b>	<b>Details GIVEN in A.R.</b>	<b>Observation of I/Officer</b>	<b>Remarks</b>
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manager and ME is Sri Manoj Kumar Sinha, Geologist-No one.	Mines Manager and ME is Sri Manoj Kumar Sinha, Geologist-No one.	As on date of inspection Mines Manager is Sri Manoj Sinha, Geologist is Sri M.P Singh
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	0.0134 Ha	1.01(Mining Pit of Limestone) 0.00(Reclaimed Area) 0.87(Mineral Storage)	
9d	Scrutiny of Annual return on afforestation	500	Nil	
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	4000	4000	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	513.42	Submitted	
9i	Scrutiny of Annual return on fixed assets	Rs 423289147	Submitted	
9k	Scrutiny of Annual return on	PC200-Rock	PC200-Rock Breaker	

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	mining machineries	Breaker (one), Dumper-28 tonners (One)	(one), Dumper-28 tonners (One)	
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**Details of violations observed during current inspection and compliance position of earlier violation pointed out:** Violation of rules 11(1), 34A(1), 35(2) of MCDR-2017 has been observed and violation letter issued on 01.09.2023 in respect of the current mine inspection.

**(Name of inspecting officer with designation and date)**