#### MCDR INSPECTION REPORT

Name & Designation of Inspecting Officer: Subrata Kumar Muduli, Senior Mining Geologist Date of Inspection:  $2^{nd}~\&~3^{rd}~July~2024$ .

S. N.	Particulars	Details	
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	Mine-code	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	Padmanav Chakravarty Address- F/No-A4,8 <sup>TH</sup> Floor, Block 1B, Regent Paradise, Ghoramara, GHY, Kamrup, Phone: 8811017766 Email: chakravarty.padmana v@dalmiacement.co m Date of appointment: 9 <sup>th</sup> May, 2024	
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:
		sharma.hemant1@dal
		miabharat.com
		Date of appointment:
22	Nigora Chia Natana Nagarana dala Adduna di Sana di Cara	21st December, 2022
22	Name of the Mines Manager with Address, phone, email, fax	Santosh Ganpatrao
	number	Mogre,
	and date of appointment in mines	Village- Salang, Elaka-
		Sutnga, District- East
		Jaintia Hills,
		Meghalaya -793200
		Phone: 7099093343
		Email:
		sinha.manoj@dalmia
		cement.com
		Date of appointment:
		21st August, 2023
		S , a
23	Name of the Mining Engineer, Qualification and total experience	Dhananjay Kumar
	with Address, phone, email, fax number and date of appointment	BE (Mining),
	in mine	Experience: 25 years
	THE THIRD	Village-Thangskai,
		PO-Lumshnong,
		District- East Jaintia
		Hills, Meghalaya –
		793210
		Phone: 8974008009
		Email:
		kumar.dhananjay@d
		<u>almiabharat.com</u>
		Date of appointment:
		26 <sup>th</sup> September, 2019
24	Whether Geologist and Mining Engineer appointed in mines satisfy	Yes
	the rule 42 & carrying out their duties as per rule 43 & 44.	
25	Date of Approval of Mining Plan/Modified Mining Plan with five-	314(3)2008-
	year period and specific condition in approval letter, if any.	MCCM(CZ)/MP-7
		Dated
		28.07.2007(2011-12
		to 2015-
		16),IBM/GHY/MEG/E
		JNH/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
1		to 2025-26)

26	Date of Approval of Scheme of Mining/Modified Scheme of	07/06/2022
	Mining with five-year period and specific condition in approval	
	letter, if any.	
27	Mineral(s) granted in lease and proved for mining	Limestone & Shale
28	Method of Mining(Opencast, Underground)	Opencast
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.	ltem	Proposals	Actual work	Remarks
1a	Backlog of previous year	Backlog of 2022-23: 12 nos core bore holes. Proposal for 2023-24: 13 nos core bole holes.	14 nos bore holes done in 2023- 24.Drilling Machine has been shifted out of the ML.	Violation issued u/r 11(1) for not carrying out the approved exploration proposal of 2023-24.
1b	Exploration over lease area for Geological axis 1 or 2.	G4- 3.26 Ha. G3-97.1 Ha. Total-100.36 Ha. To G1 ( During 2023-24)	Based on the exploration carried out in 2023-24, G-1: 80.06 G-2: 98.68 G-3: 51.26	Violation issued for not carrying out the approved Exploration proposal.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No such details approved.	Udaipur MinTech Pvt Ltd.	Rate of per meter core drilling Rs 2500.00.Total expenditure made towards exploratory operation during 2023-24 for drilling is Rs 6809800.00.
1d	Balance area to be explored to bring Geological axis in 1 or 2	G4- 3.26 Ha. G3-97.1 Ha. Total-100.36 Ha. To G1 ( During 2023-24)	51.26 Ha area is under G-3 and to be brought under G-1 and 98.68 Ha of G-2 level area to be brought in to G1.	
1e	Balance reserves as on 01.04.2024	85.005 million tones	85.062 million tones	Violation issued u/r 45(7)(a) of MCDR-2017 for not submitting

					the details.
1f	inspecting	on	Exploration needs area under G1 leve from East to west i	l of exploration. Li	imestone thickness

### Development

S.N.	ltem	Proposals	Actual work	Remarks
2a	Location of development	Mining Pit	Mining Pit is	Earlier
	w.r.t. lease area	E448201.822m	bound by:	Violation for
		N2799286.971m	E448165.5596m	deviation in
		to E448238.437m	N2799120.9217	location is
		N2799136.946m	to	still pending
			E448823.0185	and
			to	modification
			N2799891.2975	of mining
				plan is under
				process. Due
				to no drilling
				& blasting,
				development
				is done in
				the area
				where
				limestone
				pinnacles are
				exposed. Violation
				issued u/r
				11(1) of
				MCDR-2017
				for not
				carrying out
				mining by
				deploying
				rock breaker
				and by jack
				hammer
				drilling and
				blasting
				instead of
				HEMM with
				deep hole
				drilling and
				blasting, also
				for
				Limestone
				stack, crusher
				area.
2b	Separate benches in	Yes	Yes.	Mine
	topsoil, overburden and			development

	mineral (Rule 15)			is at initial	
				stage.	
2c	Stripping ratio or ore to	0.029	0.85	OB	
	OB ratio			generation-	
				80250MT	
				Limestone	
				Production –	
				94193MT.	
2d	Quantity of topsoil	117.99 m3	Nil		
	generation in m3				
2e	Quantity of overburden	Nil	50156.25	OB	
	generation in m3			generated	
				has been	
				used for	
				road	
				levelling and	
				widening.	
2f	General remarks of	The top pinnacles of	of Limestone are bei	ing mined out	
	inspecting officer on	by deploying Rock	Breaker for develop	ping a smooth	
	development of pit w.r.t.	ground for large sca	ale mining by deep	hole drilling	
	type of deposit etc.	and blasting and ut	ilizing HEMM. In to	otal there are	
		two nos of mining	pits over an area of	4.68 Ha (Pit-	
		1) and 2.87 Ha (Pit	-2). There are a tota	al of 69 nos of	
		illegal deep pits within the ML and the issue of illegal			
		mining of carbonaceous rock/coal has already been			
		intimated to DMR,	State Govt. of Meg	ghalaya vide	
		this office letter dat	ed 05.09.2023.		

# Exploitation

S.N.	ltem	Proposals	Actual work	Remarks
3a	Number of pits proposed for		2	Violation u/r 11(1) of MCDR-2017
	production			was issued on date 01.09.2023 at
				point (ii) for
				deviation in
				mining area and the same violation
				is continuing till
				date of inspection.
				Hence no separate violation has been
				issued again.
3b	Quantity of ROM mineral production proposed	94196.6 tonnes	94193 tonnes	, and the second
3с	Recovery of salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral	Nil	Nil	

		I	T	T
	reject generation and threshold value			
2.6	declared	> 111	> 101	
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	Nil	Seggregation from ROM is not required as recovery is 100%.	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Nil	Nil	
3j	Provision of drilling & blasting in mineral benches	1nos drilling machine each of 115mm dia, Spacing- 5m,Burden- 4m,Bench height- 9m,Hole depth- 9m, Staggered pattern drilling and blasting.	Jack Hammer and Rock breaker	Violation u/r 11(1) of MCDR-2017 issued.
3k	Provision of mining machineries in mineral benches	Mechanized mining with the combination of deep hole drilling and blasting, also by deploying Hydraulic Excavator of 0.9m3 with dumpers of 28 MT.	Jack Hammer and Rock breaker, Dumpers of 28 MT-10 nos, Back hoe- 3.1m3-2 nos	-do-
31	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.	
3m	Total area covered under excavation/pits	1.22 hectare	7.55 hectare	MMP under process.
3n	Ore to OB ratio for the pit/mine during the year	0.029	0.85	OB generation- 80250MT Limestone Production – 94193MT.Violation u/r 11(1) of MCDR- 2017 issued.
30	Total area put in use	21.69 hectare	44.57 hectare	Roads and

	under different heads at the end of year			township area additional. MMP under process.
3р	Production of ROM mineral during last five-year period, as applicable	21-700049.32 T	2019-20 to 2020-21-Nil 2021-22- Nil 2022-23 -4000 T 2023-24 – 94193T	
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 deploying Jack hammer drilling and blasting, Rock Breaker and Excavator.		

# Solid Waste Management-Dumping

S.N.	ltem	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Yes	Yes for Top soil	
4b	Location of topsoil, OB & mineral reject dumps	Topsoil: E448166.744 N2799418.469 to E448216.525 N2799420.861  OB: E 448166.7 42 N2799466.824 and E 448216.525 N 2799486.27	Top Soil dump- E 448190- E448345, N2799548-N 2799494 No OB Dump found.	Violation u/r 11(1) of MCDR-2017 issued.
4c	Number of dumps within lease area and outside lease area	2(One-Top Soil,One-Waste)	One for top soil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out of UPL	Yes out of UPL	
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	Yes	Nil	As waste dump is of short term/ temporary/ stack type, no activity has been done.

4i	Length of Retaining wall	Retaining wall: 74	Nil	Due to
	or garland drain all along	meters		Short term/
	dump	Garland drain: 77		temporary
	-	meters		/small waste
				stack, the
				construction
				of Retaining
				wall and
				Garland
				drain,
				settling
				pond has
				not been
				carried out.
4j	Number of settling ponds	1	Nil	-do-
4k	Specific comments of	Due to short term/te	mporary/stack of w	aste no
	inspecting officer on	construction of Retai	ning wall and	
	waste dump	Garland drain has been made. Waste is being used in		
	management.	road development a	nd leveling.	

# Solid Waste Management-Backfilling

S.N.	ltem	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Still mineral is occurring in depth.	Mineral is yet to exhaust and hence no part of the ML is matured to start back filling.	
5b	Area under backfilling of mined out area	Nil	0.0173 Ha, Vol- 8453.5 m3	6 No. of Deep pits backfilled for safety purpose both for development & cattle.
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No such proposal was approved.	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	No such proposal was approved.	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Mineral is yet to exha matured to start back	•	

### Progressive Mine Closure Plan

S.N.	ltem	Proposals	Actual work	Remarks
6a	Whether Annual report on	PMCP report to be	Submitted.	
	PMCP submitted on time	submitted before		
	and correctly - Rule 23E(2).	1st day of July of		
	Details should be given in	Every Year		
	the format as given in			
	Annexure-20.			
6b	Management of	i) Nil	i) Nil	Mineral yet
	worked/mined out benches	ii) Nil	ii) Nil	to exhaust
	i) Area available for	iii) Nil	iii) Nil	and the
	rehabilitation (ha)	iv) Nil	iv) Nil	mining
	ii) Afforestation done (ha)	v) Nil	v) Nil	activity is in
	iii) No. of saplings planted	vi) Nil	vi) Nil	dynamic
	during the year			stage. Hence,
	iv) Cumulative no. of plants			no rehabilitation
	v) Any other specific method of rehabilitation			of mined out
	vi) Cost incurred on watch			benches
	& care during the year			during 2023-
	& care during the year			24.
				27.
6c	Compliance on reclamation	i) Nil	i) Nil	Mineral yet
	and rehabilitation by	ii) Nil	ii) Nil	to exhaust
	backfilling	iii) Nil	iii) Nil	and the
	i) Voids available for	iv) Nil	iv) Nil	mining
	backfilling (L X B X D)	v) Nil	v) Nil	activity is in
	ii) Void filled by			dynamic
	waste/tailings			stage. Hence,
	iii) Afforestation on the			no
	backfilled area			reclamation
	iv) Rehabilitation by making			and
	water reservoir			rehabilitation
	v) Any other specific means			by back
				filling during
				2023-24.
<i>C</i> 1	Compliance of	;) NI:1	;\ N1:1	No such
6d	Compliance of Rehabilitation of waste land	i) Nil ii) Nil	i) Nil	No such
	within lease	ii) Nil iii) Nil	ii) Nil	proposal
	i) Afforestation		iii) Nil	approved. However
	ii) Area rehabilitated (ha)			against the
	iii) Method of rehabilitation			proposal of
	In Method of Tellabilitation			500 nos of
				sapling
				plantation in
				0.50 Ha
				within the
				7.5m safety
				barrier of
				ML, the

	Compliance of	Monitoring of six	En ino ma ontol	lessee has planted 500 nos sapling of 2022-23. Hence violation under rule 11(1) of MCDR-2017 issued.
6e	Compliance of Environmental monitoring	Monitoring of air, noise, water & soil	Environmental  Monitoring is	
	(core zone & buffer zone)		being regularly carried out.	
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, 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	During 2023- 2494193.000 tonnes of ROM produced and a total of 42881.364 MT quantity of ROM dispatched.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical		Nil	
7c	Different grade of mineral sorted out at mines	·	Cement Grade Limestone	
7d	Any beneficiation process at mines	No such proposal was approved.	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	no generation of r		•

#### **Environment**

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil		Yes being removed	
	(Rule 32)		separately.	
8b	Concurrent use or storage	Topsoil to be	Yes	

	of topsoil	utilized for		
	or topson	plantation and		
		balance quantity to		
		be stacked.		
8c	Separate dumps for	Yes	Yes being	
	overburden, waste rock,		maintained.	
	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.	Overburden/ waste generated has been used for Road widening and levelling.	Dumping has not been done of OB. OB generated has been used for Road widening and
				leveling.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposal approved.	Nil	ieveiling.
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	1000 nos. saplings (which includes 500 of 2022-23 carry forwarded) to be planted over an area of 1.0 hectare during 2023-24.	500 nos. saplings planted in the year 2023-24 in respect of the approved proposal for 2022-23.	Violation issued u/r 11(1) for not carrying out the approved plantation proposal for 2023-24.
8g	Survival rate	No such proposal approved.	70%	
8h	Water sprinkling on roads to control airborne dust	Water Sprinkling on Haul roads	Water sprinkling by water tanker fitted with sprinklers over haul roads is being carried out regularly.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The mining operati aesthetic beauty in a However Lessee is the mines to improv and surrounding area	on is at initial stand around the mino doing plantation in the aesthetic bea	e is still good.  n and around

### Compliance of Rule 45

S.N.	ltem	COMMENTS	Remarks
9a	Status of submission of	M.R. Submitted up to May,2024 and	
	Monthly and Annual	Annual return submitted for 2023-24.	
	returns		

S.N.	ltem	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manager is Santosh Mogre, ME is Dhananjay Kumar and Geologist is Tapas Pal.	Santosh Mogre, ME is Dhananjay Kumar and	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	7.547(Mining Pit of Limestone) 0.00(Reclaimed Area) 3.016(Mineral Storage)	7.547(Mining Pit of Limestone) 0.00(Reclaimed Area) 3.016(Mineral Storage)	
9d	Scrutiny of Annual return on afforestation	500	500	
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	55311.636 tonnes	55311.636 tonnes	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale value- Rs. 550; Ex-mine price – 550/- Production cost- 1846.06	It has been observed that cost per tonne of mineral is more than the sale price per tonne of mineral and under this situation mining production is not feasible. Either cost per tonne or ex-mine price/sale price is not correct.	Violation issued u/r 45(7)(a) of MCDR-2017.
9i	Scrutiny of Annual return on fixed assets	Rs 449275116.00	Details not available for checking.	
9k	Scrutiny of Annual return on mining machineries	DOZER-1No, DUMPER-28 tonnesr-10nos, WATER	1. Back-hoe- hydraulic: a) KOBELCO SK 520 SD (1), b)	

TANKER-12KL-	KOBELCO SK 220	
1No,	(1).	
BACK HOE-	2. Rock breaker	
3.100m3-2 nos,	with base machine-	
MOTOR	KOBELCO SK 520	
GRADER-120	(3)	
HP-1 No,	3. Dumpers: a)	
OTHER HEM	VOLVO FMX460	
MACHINERY-	(4); b)	
3no	BHARATBENZ	
	2828C (6)	
	4. Dozer; a) Dozer	
	PR734 (1); b) Dozer	
	D-80 (1)	
	5. Grader; Grader	
	CAT -120 (1)	
	6. Water Tanker;	
	Water Sprinkler-	
	tata ultra -12 KL (1)	

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

As per the inspection dated 2nd and 3rd July 2024, violation have been issued for Rule 11(1) of MCDR-2017 for seven nos. of issues, Rule 45(7)(a) of MCDR-2017 for two nos. of issues. Earlier violation of rule 11(1) of MCDR-2017 wrt mine inspection dated 07.08.2023 and 08.08.2023 is still pending for complete closure of deep pits lying within the Mining Lease. Lessee has already backfilled 6(six) nos. of deep pits for safety purpose which are adjacent to and falling within the mining pit area.

Subrata Kumar Muduli, SMG (Name of inspecting officer with designation and date)