

INSPECTION DATASHEET**General**

S.N.	Particulars	Details
1	Name of the Mine	South Khliehjari Limestone Mine
	Date of Inspection:	14.12.2023
	Name of Inspecting Officer	Sandeep Kumar Singh
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	31.05 Ha Forest: - NIL, Non Forest: - 31.05 Ha.
3	Mine code	38MEG03004
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/5869/2011
5	Name of the Lessee, Address, Phone, email and fax number	M/s Meghalaya Cements Limited Village- Thangskai, PO- Lumshnong, Dist - East Jaintia Hills, Meghalaya Phone:- Email:- mines@topcem.in
6	Village	Thangskai
7	Taluka/Mandal	Khliehriat
8	District	East Jaintia Hills
9	Pin code	793210
10	State	Meghalaya
11	Post Office	Lumshnong
12	Nearest Police Station	Lumshnong
13	Nearest Railway Station	Badarpur
14	Date of Grant of Mining Lease	10.01.2017
15	Date of Execution	10.01.2017
16	Date of opening of Mine	19.01.2018
17	Date of First Renewal, if applicable and its period & expiry	Not applicable(NOT APPLICABLE)
18	Date of Second Renewal, if applicable and its period & expiry	Not applicable
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not applicable
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Ramesh Kumar Pareek Vill : Thangskai, P.O : Lumshnong Dist : East Jaintia Hills Meghalaya - 793210 Mob : 9402198186 Email - rkpareek@topcem.in; Date of appointment : 05.11.2018
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Arun Kejriwal Date of appointment: 12.11.2018 Megha Plaza, 4th Floor, Christian Basti, Guwahati - 781005 Email : aagarwal@topcem.in; Mob : 8638993718 Date of appointment: 12.11.2018
22	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Mr. Umesh Kumar Date of appointment : 01-02-2017 Vill : Thangskai, P.O : Lumshnong Dist : East Jaintia Hills Meghalaya - 793210

		Email : mines@topcem.in; Mob : 9402198201
23	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Mr. Kalaboina Aravind Qualification : BE (Mining) Experience : 04 Years Vill : Thangskai, P.O : Lumshnong Dist : East Jaintia Hills Meghalaya - 793210 Email : mines@topcem.in ; Mob : 7893654141 Date of appointment : 02-12-2021 Mr. Gopu Prashanth Qualification: - B Tech (Mining) Total Experience:- 2 years Vill : Thangskai, P.O : Lumshnong Dist : East Jaintia Hills, Meghalaya, Pin – 793210; Email : mines@topcem.in ; Mob : 8341360891 Date of appointment: 15.04.2022
24	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes, Geologist: - Abdul Motin Barbhuiya Date of appointment : 19.01.2018 Qualification : M.Sc.(Geology) Experience : 13 Years Mining Engineers: - 1. Mr. Kalaboina Aravind (Now Mr. Amit Kumar) 2. Mr. Gopu Prashanth (now Mr. Satendra Singraul)
25	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	Modified Mining Plan was approved on dated 13-12-2016 for 31.05 ha . However, Review of Mining Plan was approved on 07-09-2021.
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	Review of Mining Plan was approved on dated 07.09.2021 (from 2021-22 to 2025-26)
27	Mineral(s) granted in lease and approved for Mining	Limestone
28	Method of Mining (Opencast, Underground)	Opencast
29	Category (Fully Mechanized, Others or Manual)	Category :- A (Fully Mechanized)
30	Captive/Non-Captive	Captive

Exploration

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	Nil	Nil	No backlog
1b	Exploration over lease area for Geological axis 1 or 2.	04	07	Total 1152.00 m core with NX/BX size to be brought to G 1.
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	In house	In house	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Nil	Nil	17.59 Ha has been

				converted to G1. No balance area is remaining.
1e	Balance reserves as on 01.04.2023		As per RMP as on dated 01.04.2023 111-75698837 MT 122- 5008769 MT 221-273086 MT 222- 5332063 MT	Total Remaining Reserve = 80707606 MT & Resources = 5605149 MT
1f	General remarks of Inspecting officer on geology, exploration etc.	<p>The deposit is massive band of limestone varies in thickness upto 35 to 45 m in which mining is now going on.</p> <p>The rock formation of the area falls under Shella Formation of Jaintia series of Eocene age. The area fall on western side of NH - 06 at a distance of 2.5 km. from 120 KM post. General strike is NNE - SSW and dipping 2° to 3° towards South.</p> <p>The rocks formation encountered in the boreholes and their thickness are given below:</p> <p>The average thickness of overburden (Not applicablerpuh sandstone with unconsolidated soil & limestone boulders) is 11.37 m, Grey Limestone (Umlatdoh Formation) - 35.66 m and the Sandstone (Lakadong) – about 17.68 m and the lower Limestone member bed have a thickness of about 80.00 m with average of 18.5 m high magnesia Limestone.</p> <p>Drilling of approx 1152.00 m is done in 2022-23 to covert G2 to G1 area and further explores depth of 2nd band upto the end of mineralization.</p>		

Development

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	North-western side of the Pit. N 2787464.884 to N 2787666.330 E 438668.227 to E 438919.375	North-western side of the Pit. N 2787420.0 to N 2787670.00 E 438668.00 to E 438967.00	As per proposal
2b	Separate benches in topsoil overburden and mineral (Rule 15)	No proposal	Maintained	
2c	Stripping ratio or ore to OB ratio	1 : 0.12	1 : 0.12	In T /M ³
2d	Quantity of topsoil generation in m ³	86682.00 M ³	85805.00 M ³	
2e	Quantity of overburden generation in m ³	57552.00 M ³	56120.00 M ³	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Mine is worked as benches are formed.av height 6mtr Development is done as per Plan. There are benches formed for mechanical mining. 3 nos benches in waste and 8 nos. benches in ores.		

Exploitation

S.N.	Item	Proposals	Actual Work	Remarks	
3a	Number of pits proposed for production	01	01	One Pit	
3b	Quantity of ROM mineral production proposed (2022-23)	1171748.00 T	1159894.00 T	About 99% achieved	
3c	Recovery of Salable/usable mineral from ROM production	No proposals	Not applicable	ROM is sent to factory/plant	
3d	Quantity of mineral reject generation	No proposal	Not applicable		
3e	Grade of mineral reject generation and threshold value declared	No proposal	Not applicable		
3f	Quantity of sub-grade mineral generation	No proposal	Not applicable		
3g	Grade of sub-grade mineral generation	No proposal	Not applicable		
3h	Manual/Mechanized method adopted for segregation from ROM	No proposal	Not applicable	No segregation done.	
3i	Any anot applicablysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	Not applicable		
3j	Provision of drilling & blasting in mineral benches	Proposed	Being done	Deep hole of 6.0 m with dia 115.00 mm is practiced.	
3k	Provision of mining machineries in mineral benches	Proposed	Provided	Excavator- 1.6 M ³ / Tipper - 25.0 T	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed 6.0 m	It is suitable		
3m	Total area covered under excavation /pits	17.267 Ha	14.53 Ha	Pit	
3n	Ore to OB ratio for the pit/mine during the year	1: 0.12	1: 0.12	T/M ³	
3o	Total area put in use under different heads at the end of year	Total Area - 23.6417 Ha	Total Area - 20.74 Ha	Excludes greenbelt	
3p	Production of ROM mineral during last five-years period, as Applicable	Year	Proposed (T)	Actual (T)	Data is given
		2018-19	1533402.00	1023050.00	
		2019-20	1651416.00	986282.00	
		2020-21	2167404.00	904099.00	
		2021-22	1171505.00	1130502.00	
		2022-23	1171748.00	1159894.00	
3q	General remarks of inspecting officer on method of mining etc	Mining is done in benches. Production is done about 99% of the planned production. Separate benches in waste and Mineral maintained. New Review of Mining plan is approved from 2021-22 to 2025-26.			

Solid Waste Manot applicablegement-Dumping

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	For Soil & OB	Separate dumps are maintained for soil and OB.	
4b	Location of topsoil, OB & mineral reject dumps	Soil Dump: - N 2787722.39 to N 2787892.82 E 438841.79 to E 439044.50 OB Dump:- N 2786937.25 to N 2787200.83 E 438469.03 to E 438632.00	Soil Dump:- N 2787722.39 to N 2787892.82 E 438841.37 to E 439044.00 OB Dump:- N 2786940.00 to N 2787200.83 E 438469.00 to E 438632.00	As per proposal
4c	Number of Dumps within lease area and outside lease area	02	02	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL	Within UPL	Temporary dumps rehandled and backfilled.
4e	Number of Active & Alive dumps	02	02	
4f	Number of deed dumps	Nil	Nil	
4g	Number of dumps established	02	02	
4h	Whether Retaining wall or garland drain all along dumps are there	Proposed	Provided	Drain/Retaining wall/bund
4i	Length of Retaining wall or garland drain all along dump	Retaining wall – 200 m or garland drain – 200 m	Retaining wall – 205 m or garland drain – 205 m	Drain/Retaining wall/bund maintained
4j	Number of settling ponds	02	02	
4k	Specific commends of inspecting officer on waste dump manot applicablegement	The dumps were maintained in proper terraces. Drains along with bunds/stone wall were observed at bottom of both dumps-soil and waste.		

Solid Waste Manot applicablegement-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 proposals (no proposal)	Not applicable (not applicable)	
5b	Area under backfilling of mined out area	No proposal	Not applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal	Not applicable	
5d	Total area fully reclaimed & rehabilitated	No proposal	Not applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No provision for backfilling is made as no area is matured.		

Progressive Mine Closer 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	Yes proposed	Submitted vide letter no – nil dated 27 th June,2023 & 14 th July 2023 through email.	
6b	Manot applicalegement of worked/mined out benches			
	i) Area available for rehabilitation (Ha)	No proposals	Not applicable	
	ii) Afforestation done (ha)	No proposal	Not applicable	
	iii) No. of saplings planted during the year	No proposal	Not applicable	
	iv) Cumulative no. of plants	No proposal	Not applicable	
	v) Any other specific method of rehabilitation	No proposal	Not applicable	
	vi) Cost incurred on watch & care during the year	No proposal	Not applicable	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L*B*D) ii) Void filled by waste/tailings iii) Afforestation on the backfilling iv) Rehabilitation by making water reservoir v) Any other specific means	i) Nil ii) NO PROPOSAL iii) NO PROPOSAL iv) NO PROPOSAL v) NO PROPOSAL	i) Nil ii) NOT APPLICABLE iii) NOT APPLICABLE iv) NOT APPLICABLE v) NOT APPLICABLE	No area is matured for backfilling. Pit Area - 14.53 Ha,
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	i) 365 Nos ii) 0.2916 Ha iii) Nil	i) 365 Nos ii) 0.2916 Ha iii) Nil	Barrier plantation is done between Pillar no SKH-43 to SKH-52.
6e	Compliance of Environment monitoring (core zone & buffer zone)	Proposed	Done	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	In progressive Mine Closure only greenbelt development in barrier zone is planned and done. Plantation shows less survival (50%), violation issued.		

Mineral Conservation

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM dispatched	ROM dispatched	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No Proposals (NO PROPOSAL)	Not Applicable (NOT APPLICABLE)	

7c	Different grade of mineral sort out at mine	NO PROPOSAL	NOT APPLICABLE	
7d	Any beneficiation process at mines	NO PROPOSAL	NOT APPLICABLE	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	ROM mined is dispatched to Cement Plant at a distance of 1.50 Km from mine.		

Environment

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	No Proposals	not applicable	
8b	Concurrent use or storage of topsoil	No proposal	Not applicable	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	For OB and Soil	Separate Dump for OB and Soil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original applicable use	Not Proposed now	Not applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed now	Not applicable	
8f	Baseline information on existence of plantation & additional applicable plantation done (Rule 41)	365 nos	372 nos	
8g	Survival rate	-	50%	Less survival rate
8h	Water sprinkling on roads to control airborne dust	Proposed	Done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Plantation is done in Mine's barrier zone. Old Plantation is also seen with good growth. Last year plantation is showing poor survival rate. no area in pit matured for backfilling. it is new mine.		

Compliance of Rule 45

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	Submitted in time	Monthly Return submitted upto November, 2023
		Submitted in time	Annual Return submitted on 26.06.2023
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manot applicable leger	Mining Engr:- 1. Mr Kalaboina Arvind Geologist:- Abdul Motin Barbhuiya	(Now Mr. Amit Kumar & Mr. Satendra Singraul)
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit area:- 14.53 Ha OB Dump:- 2.93 Ha Soil Dump:- 2.80 Ha	Within F.A limits of plan.
9d	Scrutiny of Annual return on afforestation	372 nos / 0.2916 Ha	Less survival. Violation is

			issued.																												
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	NIL (No reject generated)																													
9f	Scrutiny of Annual return on ROM stock and/or grade ore	No pit head stock																													
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Sale value: - NOT APPLICABLE Ex. Mine price: - Rs 321/-Ton Production costs:- Rs 321/-Ton																													
9i	Scrutiny of Annual return on Fixed assets	Fixed assets: Land – Rs 7863828/- Plant & Machinery – Rs 35539393/- Capital Exp:- Rs 33196873/-	Details are provided in return.																												
9k	Scrutiny of Annual return on mining Machineries	Shown in Annual Return for the year 2022-23 <table border="1" data-bbox="630 801 1258 1249"> <thead> <tr> <th>Type of machinery</th> <th>Capacity of each type of machinery</th> <th>Unit (in which capacity is reported)</th> <th>No. of machinery</th> </tr> </thead> <tbody> <tr> <td>Back hoe</td> <td>1.20</td> <td>CUM</td> <td>2</td> </tr> <tr> <td>Air Compressor</td> <td>186.00</td> <td>CUM/MN</td> <td>02</td> </tr> <tr> <td>Blast Host Drill</td> <td>115.00</td> <td>MM</td> <td>2</td> </tr> <tr> <td>Dumper</td> <td>22.00</td> <td>TONNE</td> <td>10</td> </tr> <tr> <td>Dozer</td> <td>180.00</td> <td>HP</td> <td>1</td> </tr> <tr> <td>Water Tanker</td> <td>10000.00</td> <td>LITRE</td> <td>1</td> </tr> </tbody> </table>	Type of machinery	Capacity of each type of machinery	Unit (in which capacity is reported)	No. of machinery	Back hoe	1.20	CUM	2	Air Compressor	186.00	CUM/MN	02	Blast Host Drill	115.00	MM	2	Dumper	22.00	TONNE	10	Dozer	180.00	HP	1	Water Tanker	10000.00	LITRE	1	Details of mining machinery used is provided
Type of machinery	Capacity of each type of machinery	Unit (in which capacity is reported)	No. of machinery																												
Back hoe	1.20	CUM	2																												
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Dozer	180.00	HP	1																												
Water Tanker	10000.00	LITRE	1																												

Details of Violations observed during current inspection and compliance position of earlier violation pointed out:-
The earlier violation was complied & During current inspection: violation issued under 11(1) for not raising plantation as per approved plan poor survival less than 50% observed during Inspection.

Date: 12.01.2024

Name: (Sandeep Kumar Singh)
Designation: DCOM, IBM, Guwahati