

**1.0 GENERAL**

SN	Particulars	Details
1	Name of the Mine	<b>BRISHYRNOT LIMESTONE MINE-I</b>
	Date of inspection	<b>17.02.23</b>
	Name of inspecting officer	<b>Sandeep kumar singh,DY controller</b>
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	42.051 Ha. (Total Lease Area) Forest Land : Nil Non-Forest Land : 42.051 Ha.
3	Mine Code	38MEG657001
4	IBM Registration Number under rule 45 of MCDR, 2017	IBM/5483/2011
5	Name of the lessee, Address, phone, email and fax number	STAR CEMENT MEGHALAYA LIMITED Village/P.O./P.S. – Lumshnong East Jaintia Hills District, Meghalaya - 793 210
6	Village	Lumshnong
7	Taluka/Mandal	Khliehriat
8	District	East Jaintia Hills
9	Pin Code	793 210
10	State	Meghalaya
11	Post office	Lumshnong
12	Nearest police station	Lumshnong
13	Nearest Railway station	Bardarpur
14	Date of Grant of Mining Lease	01.07.2022
15	Date of Execution	15.09.2022
16	Date of opening of Mine	20.12.2022
17	Date of first Renewal, if applicable and its period & expiry	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	<b>SH. PANKAJ KEJRIWAL</b> Star Cement Meghalaya Limited, Village/P.O./P.S. – Lumshnong East Jaintia Hills Dist., Meghalaya, E-mail: pankajkejriwal@hotmail.com Date of appointment: 08.02.2021
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	<b>SH. D. V. RAMANAYYA</b> Star Cement Meghalaya Limited, Village/P.O./P.S. – Lumshnong East Jaintia Hills Dist., Meghalaya, Mobile No. 94901-88024 E-mail: dvramanayya@starcement.co.in Date of appointment: 18.12.2022
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	<b>SH. GANAPURAPUWAR ANILKUMAR KONDAYYA</b> Star Cement Meghalaya Limited, Village/P.O./P.S. – Lumshnong East Jaintia Hills District, Meghalaya, Mobile No. 96374-41072 E-mail: anilkumar@starcement.co.in Date of appointment: 20.12.2022
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax	<b>SH. GANAPURAPUWAR ANILKUMAR KONDAYYA</b> Qualification: B.E in Mining Engineering

SN	Particulars	Details
	number and date of appointment in mine	Total Experience: 14 years Address: Star Cement Meghalaya Limited, Village/P.O./P.S. – Lumshnong East Jaintia Hills Dist., Meghalaya, Mobile No. 96374-41072 E-mail: anilkumar@starcement.co.in Date of appointment: 20.12.2022
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Mr patel suraj singh
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	<b>Mining Plan:</b> Letter No. IBM/GHY/MEG/EJH/LST/MP-88, dated 14.09.2022
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Not applicable
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 Mechanised
30	Captive/Non Captive	Captive

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –

#### Exploration

SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Not Applicable	
1b	Exploration over lease area for Geological axis 1 or 2.	Nil	Not Applicable	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil	Not Applicable	No proposal in the year
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Not Applicable	Area in G1 is 38.858 Ha.
1e	Balance reserves as on start of Mines	--	As on 14.09.2022 (Approved of Plan) Mineable Reserve: 17.34 Mio T (111) Balance Resources: 36.33 Mio T (221)	
1f	General remarks of inspecting officer on geology, exploration etc.	<p><b>GEOLOGY:</b> The Max. &amp; Min. elevation of the area varies from 219 mRL to 60 mRL respectively. The lithounit i.e., Limestone formation in the area belongs to Prang limestone unit of the Sylhet unit of Jaintia group (of Meghalaya Shelf) and Shale belongs to Kopili Formation. There is only one band of limestone in this lease area. The thickness of the limestone band as per exploration is 127m. The strike direction of limestone formation in the area is E-W and dipping around 8-15 towards south. Mines grant order given in 01.07.2022.</p> <p>Mine opened on 20.12.2022.limestone</p>		

**2.0 DEVELOPMENT**

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	<u>Easting</u> 441036-441386 <u>Northing</u> 2783962-2784132	<u>Easting</u> 441056-441156 <u>Northing</u> 2783962-2784072	As per plan location
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Nil	Not Applicable	Only scrapping done
2c	Stripping ratio or ore to OB ratio	1:0	1:0	
2d	Quantity of topsoil generation in m <sup>3</sup>	Nil	Not Applicable	
2e	Quantity of overburden generation in m <sup>3</sup>	Nil	Not Applicable	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Mine has started operation in the year 2022-23. Pit is being formed. Road to access has been made. Benches are being formed.		

**3.0 EXPLOITATION**

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	10.21 Lakh tons	1,00,004 MT	Upto Jan'23
3c	Recovery of saleable/usable mineral from ROM production	Nil	Not Applicable	ROM used
3d	Quantity of mineral reject generation	Not proposed	Not Applicable	
3e	Grade of mineral reject generation and threshold value declared	Not proposed	Not Applicable	
3f	Quantity of sub-grade mineral generation	Not proposed	Not Applicable	
3g	Grade of sub-grade mineral generation	Not proposed	Not Applicable	
3h	Manual/Mechanised method adopted for segregating from ROM	Not proposed	Not Applicable	ROM sent to Crusher
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposed	Not Applicable	
3j	Provision of drilling & blasting in mineral benches	Yes	Done	4", Atlas Copco (D-35)
3k	Provision of mining machineries in mineral benches	Proposed	Being used	Kobelco 520, Bharat Benz 2828
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Suitable	Benches upto 9m made
3m	Total area covered under excavation/ pits	2.97 Ha.	1.50 Ha.	Mine started in 2022-23
3n	Ore to OB ratio for the pit/mine during the year	Not	Not Applicable	
3o	Total area put in use under different heads at the end of year	Nil	Not Applicable	
3p	Production of ROM mineral during last five-year period, as applicable	Nil	Not Applicable	
3q	General remarks of inspecting officer on method of mining etc.	The Mines opened in Dec'22. Pit and road are being made. mining is done in benches of 6-8 mtr using shovel and tipper and blasting.		

**4.0 SOLID WASTE MANAGEMENT-DUMPING**

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral	Not proposed	Not Applicable	

**MCDR INSPECTION REPORT OF BRISHYRNOT LIMESTONE MINE-I (42.051 HA.)**  
**STAR CEMENT MEGHALAYA LIMITED, LUMSHNONG VILLAGE, EAST JAINITIA HILLS DISTRICT, MEGHALAYA-793210**

SN	Item	Proposals	Actual work	Remarks
	reject (Rule 32, 33)			
4b	Location of topsoil, OB & mineral reject dumps	Nil	Not Applicable	
4c	Number of dumps within lease area and outside lease area	Nil	Not Applicable	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Nil	Not Applicable	
4e	Number of active & alive dumps	Nil	Not Applicable	
4f	Number of dead dumps	Nil	Not Applicable	
4g	Number of dumps stabilised	Nil	Not Applicable	
4h	Whether Retaining wall or garland drain all along dumps	Nil	Not Applicable	
4i	Length of Retaining wall or garland drain all along dump	Nil	Not Applicable	
4j	Number of settling ponds	Nil	Not Applicable	
4k	Specific comments of inspecting officer	No waste disposal proposal is made in plan as no quantity encountered. Some Top Soil from 3 <sup>rd</sup> years onwards.		

**5.0 SOLID WASTE MANAGEMENT-BACKFILLING**

SN	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not	Not Applicable	
5b	Area under backfilling of mined out area	Nil	Not Applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Nil	Not Applicable	
5d	Total area fully reclaimed & rehabilitated	Not proposed	Not Applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No proposal for back filling in plan		

**6.0 PROGRESSIVE MINE CLOSURE PLAN**

SN	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.	--	Not Applicable	This is first year of mine operation
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 proposals	Not Applicable	
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	No proposals	Not Applicable	New mine, no area has matured
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Barrier Plantation	In progress. 50 done	Other planned in Mar'23
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposed	Being done	
6f	General remarks of inspecting officer on PMCP compliance & progressive	New Mine has started in Dec'22 only. Environment monitoring done		

**7.0 MINERAL CONSERVATION**

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM	Not Applicable	ROM is sent
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No proposals	Not Applicable	
7c	Different grade of mineral sorted out at mines	No proposals	Not Applicable	
7d	Any beneficiation process at mines	No proposals	Not Applicable	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	ROM is supplied to factory.		

**8.0 ENVIRONMENT**

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposals	Not Applicable	
8b	Concurrent use or storage of topsoil	No proposals	Not Applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposals	Not Applicable	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposals	Not Applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposals	Not Applicable	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	--	--	
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Yes	Done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Green belt development is in progress. Advised to do fencing.		

**9.0 COMPLIANCE OF RULE 45**

SN	Item	COMMENTS		Remarks
	Status of submission of Monthly and Annual returns	--		Monthly Returns being submitted online from Jan'23.
SN	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Not Applicable	Not Applicable	This is first year of operation. Annual Return of year is not due as year is yet to complete.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Not Applicable	Not Applicable	
9d	Scrutiny of Annual return on afforestation	Not Applicable	Not Applicable	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Not Applicable	Not Applicable	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Not Applicable	Not Applicable	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Not Applicable	Not Applicable	
9i	Scrutiny of Annual return on fixed assets	Not Applicable	Not Applicable	
9k	Scrutiny of Annual return on mining machineries	Not Applicable	Not Applicable	

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

Not applicable as mines has opened in DEC 22.

Date:

01.02.23

Name: Sandeep Kumar Singh

Designation: Deputy Controller of Mines (I/C),

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