

MCDR INSPECTION REPORT**1.0 GENERAL**

SN	Particulars	Details
1	Name of the Mine	WAH- PYNKON LIMESTONE MINE-II
	Date of Inspection	17.02.23
	Name of inspecting officer	Sandeep kumar Singh
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	13.58 Ha. (Total Lease Area) Nil. (Forest) 13.58 Ha. (Non-Forest)
3	Mine Code	38MEG03017
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/5471/2011
5	Name of the lessee, Address, phone, email and fax number	STAR CEMENT 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	Pincode	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	04.01.2017
15	Date of Execution	10.01.2017
16	Date of opening of Mine	21.09.2017
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	SH. PANKAJ KEJRIWAL Star Cement Limited, Village/P.O./P.S. – Lumshnong East Jaintia Hills Dist., Meghalaya, pankajkejriwal@hotmail.com Date of appointment: 11.11.2020
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	SH. D. V. RAMANAYYA Star Cement Limited, Village/P.O./P.S. – Lumshnong East Jaintia Hills Dist., Meghalaya, Mobile No. 94901-88024 dvramanayya@starcement.co.in Date of appointment: 11.01.2018
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	SH. DINESH CHANDRA SINHA Star Cement Limited, Village/P.O./P.S. – Lumshnong East Jaintia Hills Dist., Meghalaya, Mobile No. 8974010167 dineshsinha@starcement.co.in Date of appointment: 21.09.2017
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	SH. NAREDLA PRAKASH Qualification: B.E in Mining Engineering Experience: 13 years Star Cement Limited, Village/P.O./P.S. – Lumshnong East Jaintia Hills Dist., Meghalaya, Mobile No. 6304497016, 7729819424

SN	Particulars	Details
		nani.prime@gmail.com Date of appointment: 15.04.2019
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes (21.09.2017) ,Mr Chirag manuraj Sharma
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan: Letter No.IBM/GHY/MEG/JNH/LST/MP-69, dated 11.05/2015 Modification of Approved Mining Plan: Period: 2018-19 to 2020-21 Letter No. IBM/GHY/MEG/JNH/LST/MP-69, dated 24.01.2019
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: Period: 2021-22 to 2025-26 Letter No. IBM/GHY/MEG/JNH/LST/MP-69, dated 23.02.2021
27	Mineral(s) granted in lease and proved for mining	Limestone
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	No Proposals	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	No Proposals	Nil	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No Proposals	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposals	Nil	Entire area in G1 Exploration
1e	Balance reserves as on 01.04.2022		Proved Mineral Reserve: (111): 4518988.00 Prefeasibility Mineral Resource: (221): 11207200.00 Resource : (331): 333625.00	
1f	General remarks of inspecting officer on geology, exploration etc.	<p>GEOLOGY: Entire ML area is covered by top limestone band known as Prang Limestone of Middle Eocene age. The top surface shows rough and jagged outcrops and fractured filled with clayey brown sandy soil, locally at places. The depth of the drilled boreholes varies from 31.10 m to 69.50 m. The limestone bed extends in NE-SW to ENE-WSW direction and dipping 4° to 5° south easterly.</p> <p>No proposal for exploration in the year 2021-22</p>		

2.0 DEVELOPMENT

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Easting 438290 , 438460 Northing	Easting 438300 ,438420 Northing	

		2783180 ,2783030	2783060, 2783160	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Nil	Not Applicable	No waste or Top soil benches/only limestone benches
2c	Stripping ratio or ore to OB ratio	1: 0.0	1: 0.00	
2d	Quantity of topsoil generation in m ³	Nil	Not applicable	
2e	Quantity of overburden generation in m ³	Nil	Not applicable	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Pit is being developed – Production is at lower rate due to Environmental Clearance, Near pillar no. 8/45 old pit exist in the area. Working done in proposed area. mining is being done from hill top to bottom by formation of benches of apprimately 3mtr height. less production due to EC restriction.		

3.0 EXPLOITATION

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	01	01	The mining has been carried out in a single pit. One old pit exists not working
3b	Quantity of ROM mineral production proposed	678105 MT	49245.53 MT	Proposed production could not achieved due to present EC restriction (49,275 TPA)
3c	Recovery of saleable/usable mineral from ROM production	100%	100%	Same as proposal. Rom is sent to plant
3d	Quantity of mineral reject generation	No proposal	Nil	--
3e	Grade of mineral reject generation and threshold value declared	No proposal	Nil	--
3f	Quantity of sub-grade mineral generation	No proposal	Nil	--
3g	Grade of sub-grade mineral generation	No proposal	Nil	--
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	Nil	Same as proposal.
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	Nil	--

3j	Provision of drilling & blasting in mineral benches	Deep hole DTH drilling machine of 115 mm dia Explosive van : 7.5 tonne Drilling & Blasting carried out in general shift, Burden:3m *Spacing 4m Type of drilling : Straggered, Type of explosive: ANFO charge: , Sequence, Mode of Initiation: NONAL,Electronic , Sequence of Initiation: "V" pattern	Deep hole DTH drilling machine of 115 mm dia Explosive van:7.5 tonne Drilling & Blasting carried out in general shift, Burden:3m *Spacing 4m Type of drilling : Straggered, Type of explosive:ANFO, Sequence, Mode of Initiation: NONAL,Electronic , Sequence of Initiation: "V" pattern	Same as proposal.
3k	Provision of mining machineries in mineral benches	Hydraulic Excavator 2.6m ³ Dumper of 25 MT Back Hoe: 2.6cum Dozer: 90 HP Yes Proposed	Hydraulic Excavator of 2.6m ³ Dumper of 25 MT Back Hoe: 2.6 cum Dozer: 90 HP	Provided as proposal.
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	2.71	2.01	
3n	Ore to OB ratio for the pit/mine during the year	1: 0.0	1: 0.0	
3o	Total area put in use under different heads at the end of year	2.71	2.01	
3p	Production of ROM mineral during last five-year period, as applicable	2017-18: 41,647.50 MT 2018-19: 41,493.01 MT 2019-20: 6,47,073.84 Mt 2020-21: 6,78,123.58 MT 2021-22: 6,78,105.00 MT	2017-18: 41,019.57MT 2018-19: 40,632.01 MT 2019-20: 49,141.64MT 2020-21: 49,085.83MT 2021-22: 49,245.53MT	Production could not achieved due to awaited enhancement of EC
3q	General remarks of inspecting officer on method of mining etc.	The mine is worked forming benches. Mechanized mining done using shovel & tipper.less production volume due to EC restriction.		

4.0 SOLID WASTE MANAGEMENT-DUMPING

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No Proposed	Not applicable	No proposal during the RY
4b	Location of topsoil, OB & mineral reject dumps	No Proposed	Not applicable	
4c	Number of dumps within lease area and outside lease area	No Proposed	Not applicable	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No Proposed	Not applicable	

SN	Item	Proposals	Actual work	Remarks
4e	Number of active & alive dumps	No Proposed	Not applicable	
4f	Number of dead dumps	No Proposed	Not applicable	No proposal during the RY
4g	Number of dumps stabilised	No Proposed	Not applicable	No proposal during the RY
4h	Whether Retaining wall or garland drain all along dumps	No Proposed	Not applicable	
4i	Length of Retaining wall or garland drain all along dump	No Proposed	Not applicable	No proposal during the RY
4j	Number of settling ponds	No proposal	Not applicable	
4k	Specific comments of inspecting officer	No waste generation. No waste disposal planned		

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	No proposals	Not applicable	The mine was opened on 21.09.2017 and the mine is not mature till date for back filling. So there was no proposal for back filling in the RY
5b	Area under backfilling of mined out area	No proposals	Not applicable	The mine was opened on 21.09.2017 and the mine is not mature till date for back filling. So there was no proposal for back filling in the RY
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposals	Not applicable	The mine was opened on 21.09.2017 and the mine is not mature till date for back filling. So there was no proposal for back filling in the RY
5d	Total area fully reclaimed & rehabilitated	No proposals	Not applicable	The mine was opened on 21.09.2017 and the mine is not mature till date for back filling. So there was no proposal for back filling in the RY
5e	General remarks of inspecting officer on backfilling, reclamation etc	The mine was opened on 21.09.2017 and the mine is not mature till date for back filling. So there was no proposal for back filling in the RY		

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.	As per rule 26(2) Annual PMCP report to be submitted before 1 st day of July of every year	Submitted on 23.06.2022	Submitted by email on 23.06.2022
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) NA ii) NA iii) NA iv) NA v) Nil vi) NA	i) NA ii) NA iii) NA iv) NA v) Nil vi) NA	The mine was opened on 21.09.2017 and no worked out benches were present for reclamation and rehabilitation. Hence no proposal was envisaged in the RY
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) NA ii) Nil iii) NA iv) NA v) Nil	ii) NA iii) NA iv) NA v) Nil	The mine was opened on 21.09.2017 and no worked out benches were present for reclamation and rehabilitation. Hence no proposal was envisaged in the RY
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	7.5mtrs Barrier Area ii) 0.08ha iii) Nil	7.5 mtrs Barrier Area ii) 0.08ha iii) Nil	Plantation showing poor survival rate
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Air, Noise and Water quality monitoring will be done during the year within the lease area	Monitoring is carried out, Within the limits	
6f	General remarks of inspecting officer on PMCP compliance & progressive	The green belt developed near pillar 8/45 as planned during year is having poor survival rate. Post plantation on care needed violation is issued for same.		

7.0 MINERAL CONSERVATION

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Produced ROM will be directly sent to the Crusher from the mine	Produced ROM is directly sent to the Crusher from the mine	

7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not proposed	Not applicable	
7c	Different grade of mineral sorted out at mines	Not proposed	Not applicable	
7d	Any beneficiation process at mines	Not proposed	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	ROM is directly supplied to plant		

8.0 ENVIRONMENT

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not applicable	Not applicable	
8b	Concurrent use or storage of topsoil	Not applicable	Not Applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not applicable	Not applicable	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Not applicable	No proposal was envisaged during the RY
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Not applicable	No proposal was envisaged during the RY
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Within lease-160 Nos.	Within lease-175 Nos.	Poor survival rate
8g	Survival rate	No proposals	60.00%	
8h	Water sprinkling on roads to control airborne dust	Water Sprinkling on Haul roads was proposed.	Water sprinkling by water tanker over haul roads has been carried out.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Water sprinkling is done , Green belt upkeep/ Plantation needs ment.shows very poor survival.violation issued.		

9.0 COMPLIANCE OF RULE 45

SN	Item	COMMENTS		Remarks
	Status of submission of Monthly and Annual returns	Monthly Return submitted upto – July, 2022 Annual Return submitted for FY 2021-22		
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	Mining Engineer: Sh Naredla Prakesh Geologist : Sh Patel Suraj Singh (Part time) Manager :Sh Dinesh Chandra Sinha		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use pattern : 2.01ha		
9d	Scrutiny of Annual return on afforestation	7.5mtrs Barrier Area ii) 175 nos. sapling	Poor survival rate violation issued	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	NA	No rejects	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Production: 49,245.53 MT Pit head stock :Nil No Sale value	ROM	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-mine price: 279.01		
9i	Scrutiny of Annual return on fixed assets	Rs: 485529608	Value is provided combined with other leases	
9k	Scrutiny of Annual return on mining machineries	BACK HOE : 2.600 CUM TIPPER : 25 ton Altas Copco (AirROC) (Dia 115);		

		1 Rock breaker :1 Crawler mounted Bulldozer:1 Water sprinkler : 1		
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10 - Details of violations observed during current inspection and compliance position of earlier violation pointed out: in last inspection.-

Earlier Violation letter was issued vide letter No.IBM/GHY/MEG/JNH/LST-16(A) dated 21.10.2021 was complied

Current Violation letter issued vide letter No.IBM/GHY/MEG/JNH/LST-16(A) dated 31.03.2023.

Violation of Rule 11(1) of MCDR-2017 was pointed out during the inspection dated 17.02.2023.

01.09.23

[Handwritten Signature]
1/9/23

Name: Sandeep Kumar Singh
Designation: Deputy Controller of Mines (I/C),