#### INDIAN BUREAU OF MINES

# MINES CONTROL AND CONSERVATION OF MINERAL DIVISION MCDR INSPECTION REPORT

**Guwahati Regional Office** 

Mine code: 38MEG03017

Mine file No: IBM/GHY/MEG/JNH/LST-16(A)

Date of Inspection: 05.09.2022

1.0 GENERAL

SN	Particulars	Details
	Name of the Mine	WAH- PYNKON LIMESTONE MINE-II
2	Total Lease Area (Ha) with breakup of Non-forest	Total Lease Area: 13.58 Ha.
	and forest land	Forest: Nil; Non-Forest: 13.58 Ha.
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	STAR CEMENT LIMITED
	number	Village/P.O./P.S. – Lumshnong
	DOLLARS AND AND ADDRESS.	East Jaintia Hills District,
	Kanani in the second se	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	Not applicable
19	& expiry  Date of submission of renewal application if Mining	Not applicable
0.0	Operations are continuing under deemed extension	PANKAJ KEJRIWAL
20	Name of the Nominated Owner with Address,	Star Cement Limited,
	phone, email, fax number and date of appointment	Village/P.O./P.S. – Lumshnong
		East Jaintia Hills Dist., Meghalaya,
		pankajkejriwal@hotmail.com
		Date of appointment: 11.11.2020
24	At A Address shope	D. V. RAMANAYYA
21	Name of the Mine Agent with Address, phone,	Star Cement Limited,
	email, fax number and date of appointment	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
00	A Cal Ada Ada and the Address where	DINESH CHANDRA SINHA
22	Name of the Mines Manager with Address, phone,	Star Cement Limited,
	email, fax number and date of appointment in	Village/P.O./P.S. – Lumshnong
	mines	East Jaintia Hills Dist., Meghalaya,
		Mobile No. 8974010167
		dineshsinha@starcement.co.in
		Date of appointment: 21.09.2017

SN	Particulars	Details
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: 12 years Star Cement Limited, Village/P.O./P.S. – Lumshnong East Jaintia Hills Dist., Meghalaya, Mobile No. 6304497016, 7729819424 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, Geologist- Patel Suraj Singh Date of appointment: 21.09.2017. Qualification: M.Sc.(Geology)  Mining Engineer -
	Steel and About 441	NAREDLA PRAKASH Date of appointment : 15.04.2019 Qualification : BE (Mining)
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	Nil	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	Nil	Nil	wind now an A Small of
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil	Nil	Street the mirror oil from
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
<b>1</b> e	Balance reserves as on 01.04.2022		4518988	
1f	General remarks of inspecting officer on geology, exploration etc.	RoMP for the mineralization	reporting year , lessee needs	been envisaged in the current i.r.o of exploration upto end of to comply with the provision of as on 03.11.2021).

### 2.0 DEVELOPMENT

SN	Item	Proposals	Actual work	Remarks	
2a	Location of development w.r.t.	Easting	Easting		
	lease area	438462,	438539		
		438286	,438306		
		Northing	Northing		
		2783180,	2783166,		
		2783030	2783064		
2b	Separate benches in topsoil,	N.C.	Not		
_~	overburden and mineral (Rule 15)	Nil	Applicable		
2c	Stripping ratio or ore to OB ratio	1: 0.0	1: 0.00	The phyling Committee	
2d	Quantity of topsoil generation in	N IST	Not		
	m3	Nil	applicable		
2e	Quantity of overburden	NEL	Not		
	generation in m3	Nil	applicable		
2f	General remarks of inspecting	The lessee	nas carried ou	t development s per proposal	
	officer on development of pit				
	w.r.t. type of deposit etc.			d with the State govt.	

#### 3.0 EXPLOITATION

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1		The mining has been carried out in a single pit
3b	Quantity of ROM mineral production proposed	678105 MT	49245.53 MT	Proposed production could not be achieved due to present EC restriction.
3c	Recovery of saleable/usable mineral from ROM production	100%	100%	
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	in () those into ena & its )
3g	Grade of sub-grade mineral generation	No proposal	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
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	Spacing: 4m Burden: 3m Hole Dia: 115 mm Detonating fuse and delay detonators will be used for sequential blasting.	Spacing: 4m Burden: 3m Hole Dia: 115 mm Nonel technology as well as detonating fuse and delay detonators are using for sequential blasting.	
šk	Provision of mining machineries in mineral benches	Yes	Excavator: 2.6m3 Dumper: 25 MT Backhoe: 2.6m3 Dozer: 90 HP	
31	Whether height of benches in overburden and mineral suitable for method of mining	Yes Ore:6m	Yes Ore:6m	reg manufactured
3m	proposed in MP/SOM  Total area covered under excavation/ pits	2.71	2.01	k man back
3n	op ratio for the	1: 0.0	1; 0.0	
30	Total area put in use under different heads at	2.71	2.01	Production planned as
31	p Production of ROM mineral during last five year period, as applicable	2018-19: 41,493.01 2019-20: 6,47,073.84 2020-21: 6,78,123.55 2021-22:: 6,78,105.0	8 2020-21: 49,083.83W 2021-22: 49,245.53MT	per anticipated EC quantity however failure to get EC resulted in less production.
73	d General Terriario	n restriction (49,275	cipated EC quantity howevers production. Achieved	or failure to get upgrade

## 4.0 SOLID WASTE MANAGEMENT-DUMPING

0 50	LID WASTE MANAGEMENT-DUMPING			Remarks
		Proposals	Actual work	10.1
SN 4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,	Nil	NA	in which
4b	Location of topsoil, OB &	Nil	NA	
4c	mineral reject dumps  Number of dumps within lease	Nil	NA	
	area and outside lease area  Location of dumps w.r.t.	Nil	NA	
4d	ultimate pit limit (Rule 16)		NA	
4e	Number of active & alive dumps	Nil	NA NA	
	Number of dead dumps	Nil	NA NA	
4f	Number of dead damps	Nil	INA	
4g 4h	Whether Retaining Wall Of	Nil	NA .	
4i	garland drain all along dumps  Length of Retaining wall or garland drain all along dump	Nil Page 4 0	NA	

SN	Item		Proposals	Actual work	Remarks
4j	Number of settling pond	ls	Nil	NA	
4k	Specific comments	of	As there is no OB a	and Top Soil Presently, ger	neration of OB and Soil was
	inspecting officer		Nil. Lessee has ca	rried out the work as pe	er the proposal envisaged
			during the reportin	g year.	

#### 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 RY
5b	Area under backfilling of mined out area	No proposals	Not applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposals	Not applicable	
5d	Total area fully reclaimed & rehabilitated	No proposals	Not applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc.			

#### 6.0 PROGRESSIVE MINE CLOSURE PLAN

				D
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.	report to be submitted before	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) Rs. 15750.00	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	i) NA iiNil 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

Page 5 of 8

SN	Item	Proposals	Actual work	
6d	in vica remabilitated (Ua)	i) 7.5mtr (Safety Zone) ii) 0.08ha iii) Nil	i) 7.5 mtr Safety Zone ii) 0.08ha iii) Nil	Remarks
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 being carried out , Within the limits	
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	The lessee has	carried out affores he proposal envisaged	tation and environmental d during the reporting year.

## 7.0 MINERAL CONSERVATION

SN	Item	Proposals	Actual work	
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Produced ROM will	Produced ROM was directly sent to the Crusher from the mine	Remarks
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	No proposal for mi reporting year.	neral beneficiation was	proposed during the

#### **8.0 ENVIRONMENT**

SN	Item	Proposals	Actual work	
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Not applicable	Remarks
8b	Concurrent use or storage of topsoil	Nil	Not Applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Nil	Not applicable	Proper lesses to pro-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Not applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Not applicable	

8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Within ML- 160	Within ML- 175	Plantation was carried out in the Safety zone
8g	Survival rate	No proposals	60.00%	
8h	Water sprinkling on roads to control airborne dust	Water Sprinkling on Haul roads was proposed.	been carried out.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Lessee has planted 175 nos. of saplings within the mining lease. Water sprinkling has been carried out in the haul roads to minimize the fugitive dust emission. This sustains the aesthetic beauty of the mine area.		

## 9.0 COMPLIANCE OF RULE 45

SN	Item	COMME	Remarks	
SIN	Status of submission of	Monthly Return submitted :		
	Monthly and Annual returns	Annual Return submitted for FY 2021-22		Remarks
SN	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining	Mining Engineer Naredla Prakesh	Mining Engineer Naredla Prakesh	
	Engineer, Geologist and Manager	<b>Geologist</b> : Patel Suraj Singh	Geologist : Patel Suraj Singh	
		Manager : Dinesh Chandra Sinha	Manager : Dinesh Chandra Sinha	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit:2.010 Dump: Nil Reclaimed : Nil	Pit:2.010 Dump: Nil Reclaimed : Nil	
9d	Scrutiny of Annual return on afforestation	ny of Annual return WML: 175 nos. WML: 175 nos.		
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	NII	NII	e d-subm
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening Stock-0.00 Production- 49245.00 Dispatch- 49245.00 Closing Stock-0.00 There is no separate stock for graded ore.	Opening Stock-0.00 Production- 49245.00 Dispatch- 49245.00 Closing Stock-0.00 There is no separate stock for graded ore	
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	Scrutiny of Annual return Rs: 485529608 Rs: 485529608		
9k	Scrutiny of Annual return on mining machineries	1) Back Hoe: 2) Dozer: 3)Tipper: 4)Other HEMM: 5)Water Tanker: 6)Air Comp: 7)Rock Drill: 8)Explosive Van:	1) Back Hoe: 2) Dozer: 3)Tipper: 4)Other HEMM: 5)Water Tanker: 6)Air Comp: 7)Rock Drill: 8)Explosive Van:	

- 10 Details of violations observed during current inspection and compliance position of earlier violation pointed out:-
  - 1. Earlier pointed out violation complied.
  - 2. Violation pointed out in the current inspection.
    - a) MDPA conditions on account of production have been found violated.
    - b) Rule 12(4) of MCDR-2017 has been found violated.

(Vikas Kumar), ACOM Name of Inspecting Officer with Designation and Date