

FOR THE YEAR 2024-25

**MCDR INSPECTION REPORT OF Wahpynkon Limestone Mine-II (13.58 HA.) STAR CEMENT LIMITED,
LUMSHNONG VILLAGE, EAST JAINTIA HILLS DISTRICT, MEGHALAYA-793210**

1.0 GENERAL

SN	Particulars	Details
1	Name of the Mine	Wahpynkon Limestone Mine-II
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	13.58 Ha. (forest=0; non forest= 13.58Ha.)
	Name of Inspecting officer	Manash Jyoti Saikia
	Date of Inspection:	03/10/2024
3	Mine Code	38MEG03017
4	IBM Registration Number under rule 45 of MCDR, 2017	IBM/5471/2011
5	Name of the lessee, Address, phone, email and fax number	Star Cement Limited, Lumshnong Village Khliehriat, ph:03655-278218; email: pankajkejriwal@hotmail.com
6	Village	Lumshnong
7	Taluka/Mandal	Khliehriat
8	District	EAST JAINTIA HILLS
9	Pin Code	
10	State	Meghalaya
11	Post office	
12	Nearest police station	
13	Nearest Railway station	74 KM to Badarpur Railway Station (Assam)
14	Date of Grant of Mining Lease	10/01/2017
15	Date of Execution	10/01/2017; expiry date09/01/2067
16	Date of opening of Mine	Yet not opened, modification of review of mining plan is approved
17	Date of first Renewal, if applicable and its period & expiry	NA
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr. Pankaj Kejriwal, Lumshnong, East Jaintia Hills, Meghalaya; ph:03655-278218; email: pankajkejriwal@hotmail.com
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri D.V. Ramanyya, Star Cement Ltd. Village: Lumshnong, East Jaintia Hills Dist, Meghalaya Mobile: 9490188024; 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 Ltd. Village: Lumshnong; East Jaintia Hills Dist, Meghalaya Mobile: 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 yrs. Star cement Ltd. Village- Lumshnong, East Jaintia Hills Dist., Meghalaya, Mob 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 55 & carrying out their duties as per rule 56 & 57.	yes

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SN	Particulars	Details
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	26/11/2024, The applicant shall obtain applicable NOC from Central Ground Water Board/Central Ground Water Authority.
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
28	Method of Mining (Opencast, Underground)	Opencast
29	Category (Fully Mechanised, Others or Manual)	Fully Mechanised
30	Captive/Non Captive	Captive

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.	No Proposal as the area is in G1 stage of exploration	Nil	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No proposal	Not Applicable	No proposal in the year
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Exploration proposal	No Exploration	the area (13.58Ha.) is in G1 stage of exploration
1e	Balance reserves as on 31.03.2024	--	Reserves (Lst) (111):4420738.00(t) Resource(211) 11207200 (331) 333625.00	
1f	General remarks of inspecting officer on geology, exploration etc.	<p>The ML area has been explored in detail by geological mapping, surface sampling, drilling and analysis of surface samples and core samples. 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 5 to 10 south easterly. Based on surface and sub-surface data generated during the exploration work, the following litho-units are encountered in the area Litho-unit Formation Thickness Limestone Prang Limestone upto 69.50 mtrs (not fully explored) The limestone is mostly medium grained, hard, compact, fractured and</p>		

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	fossiliferous. The major mineral constituent is calcite and accessory minerals are quartz and iron oxide. In few boreholes, the limestone is intercalated with thin bands of sandstone and is high in silica content
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2.0 DEVELOPMENT

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Easting 438426 – 438708 Northing 2783073-2783407	Easting 438410 – 438370 Northing 2783060-2783127	Pit dimension is lesser as there was lesser development due to EC restriction. Mining plan has been approved with modification
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No Proposal	No proposal	
2c	Stripping ratio or ore to OB ratio	N/A	N/A	N/A
2d	Quantity of topsoil generation in m ³	N/A	Nil	N/A
2e	Quantity of overburden generation in m ³	Nil	Nil	N/A
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	. Working bench height is upto 6 mtrs with 21 mtrs width for working. Configuration for UPL benches 9mtrs * 9mtrs.		

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	Lst : : 6,78,090.00t	49164 t	
3c	Recovery of saleable/usable mineral from ROM production	ROM in used	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	Yes	Hydraulic drilling with Top hammer(IRB300) . 115 mm diameter explosives, Kel Prime, Toe Blast, Super Gel.
3k	Provision of mining machineries in mineral benches	Proposed	Provided	2 excavator,PC 450, 2.6m3 bucket capacity, 1BEML Dozer, 320hp,

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3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed	Suitable	Benches upto 6m made
3m	Total area covered under excavation/ pits	2.61 Ha	2.1Ha	Area broken included Road for development
3n	Ore to OB ratio for the pit/mine during the year	No overburden/no proposal	1:0.0	
3o	Total area put in use under different heads at the end of year	3.06ha.	Pit : 2.61 roads: 0.45	.
3p	Production of ROM mineral during last five-year period, as applicable	2019-20: 6,47,073.84 2020-21: 6,78,123.58 2021-22: 6,78,105.00 2022-23: 6,78,100.00 2023-24: 6,78,090.00	2019-20: 49,141.64 MT 2020-21: 49,085.83MT, 2021-22: 49,245.53MT 2022-23: 49096MT 2023-24: 49164.5MT	Production planned as per anticipate EC quantity however failure to get EC resulted in less production
3q	General remarks of inspecting officer on method of mining etc.	Proposed production could not be achieved due to present EC restriction (49,275TPA). Production planning was envisaged in the RoMP as per anticipated EC quantity however failure to get upgraded EC resulted in less production. Achieved Production is ~ 7.26% of targeted production.		

4.0 SOLID WASTE MANAGEMENT-DUMPING

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Not proposed	Not Applicable	
4b	Location of topsoil, OB & mineral reject dumps	Not proposed	Not Applicable	
4c	Number of dumps within lease area and outside lease area	Not proposed	Not Applicable	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	Not Applicable	
4e	Number of active & alive dumps	Not proposed	Not Applicable	
4f	Number of dead dumps	Not proposed	Not Applicable	
4g	Number of dumps stabilised	Not proposed	Not Applicable	
4h	Whether Retaining wall or garland drain all along dumps	Not proposed	Not Applicable	
4i	Length of Retaining wall or garland drain all along dump	Garland of 386 m	One garland drain has been constructed of length around 20-25m	Garland drain construction was lesser due to very less production and development work within EC limitation
4j	Number of settling ponds	Not Proposed	Not Applicable	
4k	Specific comments of inspecting officer	As there is no OB and Top soil presently, generation of OB and soil was NIL, two check dams have been constructed and observed during inspection. Garland drain construction was lesser due to very less production and development work within EC limitation		

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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 proposed	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	The mine was opened on 21.09.2017 and the mine is not mature till date for back filing.		

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	Enclosed with Annual Return submitted on 25.06.2024 and uploaded.
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) No proposal ii) No proposal iii) No proposal iv) No proposal v) No proposal vi) No proposal	i) No proposal ii) No proposal iii) No proposal iv) No proposal v) No proposal vi) No proposal	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) No proposal ii) No proposal iii) No proposal iv) No proposal v) No proposal vi) No proposal	i) No proposal ii) No proposal iii) No proposal iv) No proposal v) No proposal vi) No proposal	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	i) 7.5 mtr. Safety zone) ii) 0.08ha. iii) Nil	i) 7.5 mtr. Safety zone) ii) 0.08 ha. iii) Nil	Green belt is planned in Safety Barrier Zone:
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposed	Being done	
6f	General remarks of inspecting officer on PMCP compliance & progressive	The lessee has carried out afforestation and environmental monitoring as per the proposal envisaged during the reporting year		

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 to plant

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				crusher
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	No proposal for mineral beneficiation was proposed during the reporting year		

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)	Within ML 160	Within ML 175	Plantation was carried out in the safety zone
8g	Survival rate	No proposa	70%	
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	Lesse has planted 300 sapling in the year 2023-2024) sapling against proposal of 160 nos. covering an area 0.080Ha with survival rate 70%		

9.0 COMPLIANCE OF RULE 45

SN	Item	COMMENTS		Remarks
	Status of submission of Monthly and Annual returns	Monthly Return submitted: July, 2024 Annual return submitted for FY 2023-24		Monthly Returns being submitted online
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	Agent: D.V. Ramanayya Mines Manager: Sh. Dinesh Chandra Sinha, Mining Engineer: Shri Nohar Singh, Geologist: P.Suraj Singh		
9c	Scrutiny of Annual return on land use pattern	Pit: 1.442	Pit: 1.442	.

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	for area under pits, reclaimed area, dumps etc.	Road: 0.782 Other: 0.768	Road: 0.782 Other: 0.768	
9d	Scrutiny of Annual return on afforestation	Sapling: 300 (70% survival rate)	Sapling: 300 (70% survival rate)	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	No Reject	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-Mine: 244.56 Rs/T	Ex-Mine: 244.56 Rs/T	
9i	Scrutiny of Annual return on fixed assets	FA: Rs.497651267	FA: Rs.497651267	
9k	Scrutiny of Annual return on mining machineries	List of Machinery: 1.Bach Hoe: 2.Dozer 3.Tippers, 4.Other HEMM, 5.Water tanker, 6. Air Compressor, 7. Rock Drill: 8.Explosive Van:	1.Bach Hoe: 2.Dozer 3.Tippers, 4.Other HEMM, 5.Water tanker, 6. Air Compressor, 7. Rock Drill: 8.Explosive Van:	

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

All earlier violations were complied and no violations issued in the current inspection
