

INDIAN BUREAU OF MINES MINES CONTROL AND CONSERVATION OF MINERAL DIVISION MCDR INSPECTION REPORT Guwahati Regional Office

Mine file No : IBM/GHY/MEG/JNH/LST-13

Date of Inspection: 09.02.2021

Mine Code: 38MEG03016

14.	ral:	
-	Particulars	LUMSHNONG LIMESTONE MINE
1	Name of the Mine Total Lease Area(Ha) with breakup of Non-forest and forest	70.00 hectares.
2		Forest : 4.82 hectares, Non Forest : 65.18 hectares
-	land	38MEG03016
3	Mine code	38MEG03016
4	IBM Registration Number under rule 45 of MCDR , 1988	IBM/5471/2011
4		Ou O word Limited
	the lease Address phone omail and fav	Star Cement Limited,
5	Name of the lessee, Address, phone, email and fax	Lumshnong Village, East Jaintia Hills District.
0	number	Email: starmines@starcement.co.in
	A Cilina a	Lumshnong
6	Village	Khliehriat
7	Taluka/Mandal	East Jaintia Hills
-	District	793 210
	Pincode	Meghalaya
10	State	Lumshnong
11	Post office	
12	Nearest police station	Lumshnong
13	Nearest Railway station	Badarpur
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
	Date of first Renewal,	Nil
17	of applicable and its period & expiry	140
-	Date of second Renewal,	Nil
18	Lapplicable and its period & expiry	Nil
	Date of submission of Renewal application if Mining	
19	Date of submission of Reflewal application if willing	Nil
	operations are continuing under deemed extension	
		Distriction of the second of t
		Shri Prem Kumar Bhajanka
	Name of the Nominated Owner	Star Cement Ltd
no	Address, phone, email, fax number and date of	Lumshnong Village, East Jaintia Hills District,
20		Meghalaya-793210
	appointment	Email:pkb@plymail.com
		Date of appointment:20.08.2018
		Shri D.V. Ramanayya
	Name of the Mine Agent	Vill-Lumshnong, DistEast Jaintia Hills, Meghalaya-793 210
01	Address, phone, email,fax number and date of	Email: dvramanayya@starcement.co.in
2.1		Mob : 94901-88024
	appointment	Date of appointment: 11.01.2018
		Manual Ma
		Shri Sangram Kishore Mallick
	Name of the Mines Manager	Vill-Lumshnong, DistEast Jaintia Hills, Meghalaya-793 210
20	with Address, phone, email, fax number and date of	Email : sangrammallick@starcement.co.in
4	appointment	Mob : 98625-71302
	appointment.	Date of appointment: 20.07.2018
		Shri Sangram Kishore Mallick
	역 1868 - Berlin Harris, 1981 - Harris Harris, 1981 - Harris Harris, 1981 - Harris Harris, 1981 - Harris Harris	Date of appointment : 15.04.2019
	Name of the Mining Engineer,	Qualification : AMIE
23	allication and total experience with Address, phone,	
	lestable fax number and date of appointment in mine	Experience : 13 Years
		Mob : 98625-71302
		YES,
		Geologist: Hijam Rakesh Singh
	Contesist and Mining Engineer appointed in	Date of appointment: 21.09.2017
	Amether Geologist and Mining Engineer appointed in	Qualification : M.Sc. (Earth Science)
24	satisfy the rule 42 & carrying out their duties as per	Mining Engineer: Shri Sangram Kishore Mallick
	Tide 43 & 44	Date of appointment : 15.04.2019
		Qualification : AMIE
-		Approved the Modification of Mining Plan (2017-18 to 2021-22),
	Approval of Mining Plan/Modified Mining Plan with	
25	have year period & specific condition in approval letter, if an	y letter No.IBM/GHT/MEG/EJNH/LST/MF-65, dated 15.55.2517.
	Date of Approval of Scheme of Mining/ Modified Scheme of	of
	with five year period & specific condition in	NA
. 2	and the state of t	
	happibaval letter, if any	
-	numberal(s) granted in lease and proved for mining	Limestone
2	rolline al(s) granted in lease and proved for mining	
1	of Mining (Opencast, Underground)	Opencast
-	1 011 Manual)	Fully Mechanised
	and the only Medianised, Others of Mariasi,	
2	origa, Leaton Captive	Captive

ration:
Items
Backlog of previous year Proposals Actual work Remarks 1b Exploration over lease area for Geological axis 1 or 2 Nil Nil 1c Exploraion Agency & Expenditure in lakh Rupees during the year Nil Nil Balance area to be explored to bring Geological axis in 1 or 2 Nil Nil 1e Balance reserves as on 01.04.2020 Not mentioned 2,94,35,315 MT 1f General remarks of inspecting officer on geology, exploration etc. Exploration over entire lease area has been completed & total lease area is under G1 category.

S.N.	Items	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Easting 436149 to 436454 Northing 2783460 to 2784120	Easting 436093 to 436379 <u>Northing</u> 2783464 to 2784065	The lessee has moved beyond the proposal in some portion of development and therefore violation letter has been issued.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No proposals	Nil	
2c	Stripping ratio or ore to OB ratio	1: 0.45	1: 0.57	
2d	Quantity of topsoil generation in m ³	2,84,283	2,54,666	
2e	Quantity of overburden generation in m ³	1,69,761	22,657	
2f	General remarks of inspecting officer on development of pit w.r.t type of deposit etc.	The lessee has not undergone de same reason.	velopment as per the proposal ar	nd therefore violation letter has been issued for the

S.N.	Items	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	25,04,760 MT	8,99,772.42 MT	
3с	Recovery of salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	1,69,761.0 m ³	22,656.5 m ³	
3е	Grade of mineral reject generation and thershold 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.	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed & carried out for subgrade mineral and reject	No proposal	Nil	
3ј	Provision of drilling & blasting in mineral benches	Deep hole DTH drilling machine of 115 mm dia	Deep hole DTH drilling machine of 115 mm dia	
3k	Provision of mining machineries in mineral benches	Hydraulic Excavator of 2.6m ³ with dumper of 25 MT	Hydraulic Excavator of 2.6m ³ with dumper of 25 MT	
31	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	22.66 Ha	20.421 Ha	
3n	Ore to OB ratio for the pit/mine during the year	1: 0.45	1: 0.57	
30	Total area put in use under different heads at the end of year	Pit: 22.66 Ha. Green Belt: 0.40 Ha.	Pit: 20.421Ha. Green Belt: 0.40 Ha.	
3р	Production of ROM mineral during last five year, as applicable	2016-17: 1,00,012.50 MT 2017-18: 23,01,064.00 MT 2018-19: 25,00,580.00 MT 2019-20: 25,04,760.00 MT	2017-18: 89,71,92.41 MT 2018-19: 89,87,21.13 MT	
3q	General remarks of inspecting officer on method of mining etc	Lessee failed to obtain the envior it.	rnmental clearance for the proposed pr	oduction quantity, and therefore filed to achieve

S.N.	Items	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No proposal	NA	
4b	Location of topsoil, OB & mineral reject dumps	No proposal	NA	
4c	Number of dumps within lease area and outside lease area	2 (Soil Dump & Waste Dump)	2 (Soil Dump & Waste Dump)	
4d	Location of dumps w.r.t ultimate pit limit (Rule 16)	Easting 436214 to 436424 Northing 2784204 to 2784423	Easting 436247 to 436375 Northing 2784204 to 2784260	
4e	Number of active & alive dumps	2	2	
4f	Number of dead dumps	No proposal	NA NA	
4g	Number of dumps stabilished	No proposal	NA NA	
4h	Whether Retaining wall or garland drain all along dump	Proposed	NA	
4i	Length of Retaining wall or garland drain all along dump	No proposal	NA	
4 j	Number of settling ponds	No proposal	NA	
4k	Specific comments of inspecting officer on waste dump management		for non-compliance for the systematic dev	elopment of the waste dump

Management- Backfilling:	Proposals	Actual work	Remarks
us on part or full extraction of mineral from mined out area before starting	No proposal	NA	
under backfilling of mined out area	No proposal	NA	
concurrent use of topsoil for restoration or rehabilitation of mined out area	No proposal	NA	
Total area fully reclaimed & rehabilitated	No proposal	NA	

s.N.	ressive Mine Closure Plan: Items	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 through IBM's e-mail on 25.05.2020	
6b	Management of worked /mined out benches 1) Area available for rehabilitation (ha) ii) Afforestation done(ha) ii) Not of sapings planted during the year iv) Cumulative no. of plants y) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	i) NA ii) NA iii) NA iii) NA iv) NA v) Nil vi) NA	i) NA ii) NA iii) NA iii) NA iv) NA v) Nii vi) NA	
6c	Compliance on reclamation and rehabilitation by backfilling 1) Voids available for backfilling (L X B X D) 3) Void filled by wasterballings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	i) NA ii) Nii iii) NA iv) NA v) Nii	i) NA ii) Nil iii) NA iv) NA v) Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area iii) Method of rehabilitation	ii) Nil	i) 2500 Nos. of saplings along safety barrier ii) Nil iii) Nil	Rehabilitation yet to be started as mineral is still exist
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	Within the limit	
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	The lessee has carried out afforestation and en	viornmental monitering as per the proposal during the	reporting year.

Mineral Conservatio

S.N	Items	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 has directly sent to the Crusher from the mine	
7b	Method of grade -wise mineral sorting i.e manual or mechanical	Mehanical	Mechanical	
7c	Different grade of mineral sorted out at mines	Nil	Nil	
	Any beneficiation process at mines	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation	No proposal for mineral benefication was proposed during the reporting year.		

S.N.	Items	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	NA.	
8b	Concurrent use or storage of topsoil	No proposal	NA NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	NA NA	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use.	No proposal	NA	
8e	Phased restoration, reclamation & rehabilitation of lands affected by mining operations (pits, dumps etc.)	No proposal	NA	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Within lease- 1000 Nos. of saplings	Within lease- 2500 Nos. of saplings	
8g	Survival rate	No proposals	65.00%	
8h	Water sprinkling on roads to control airborne dust	Water Sprinkling on Haul roads were proposed.	Water sprinkling by water tanker over haul roads has been carried out.	
8i -		esee has planted 2500 saplings within the lea	ase boundary and had carried out water sprinkling inside	e the mine area to limit the emission of fugutive dust. This sustains the asthetic be

	pliance of Rule 45:	Comments		Remarks
		Monthly Return submitted upto	Submitted upto Jan'2021	
9a		Annual Return submitted upto	Submitted upto FY 2019-20	
s.N	ltem .	Details Given in Annual Return	Observation of I/Officer	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manager Sangram Kishore Mallick Mining Engleneer Sangram Kishore Mallick <u>Geologist</u> Hijam Rakesh Singh	Mines Manager Sangram Kishore Mallick Mining Englineer Sangram Kishore Mallick Geologist Hijam Rakesh Singh	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit : 20.421 Ha.	Pit : 20.421 Ha.	
9d	Scrutiny of Annual return on afforestation	Saplings: Within lease:1000 Nos.	Saplings: Within lease:2500 Nos. Survival rate: 65%	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/ or graded ore	Opening Stock: Nil Production: 8,99,772.42 MT Dispatch: 5,99,772.42 MT Closing Stock: Nil There is no separate stock for graded ore	Opening Stock: Nil Production: 8,99,772.42 MT Dispatch: 9,99,772.42 MT Closing Stock: (Rill There is no separate stock for graded ore	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex. Mine Price: Rs. 244.98	Cross checked from the returns found it to be correct	
9h	Scrutiny of Annual return on fixed assets	74,01,87,748.00	Verified with Asset register during inspection & found it to be correct.	
9i	Scrutiny of Annual return on mining machineries	4) Air Compressor: 02	1) Back Hoe : 06 2) Tipper: 27 3) Dozer: 02 4) Air Compressor: 02 5) Rock Drill: 02 6) Other HEMM: 03 7) Water Tanker: 01 8) Explosive Van: 01 9) Generator Diesel: 04	Verified from submitted annual machinery statement

Details of violations observed during the current inspection and compliance position of earlier violation pointed ou

Violations under Rule 11(1) was pointed out and violation letter has been issued to the lessee on 17.02.2021. Lessee has complied earlier pointed violation under rule 11(4).

Month

Name of Inspecting officer with Designation and Date