

**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-2

Mine code : 38MEG03003

Date of Inspection: 17.11.2017

**General**

S.N.	Particulars	
1	Name of the Mine	Khub Limestone Mine -I ( 4.96 ha )
2	Total Lease Area(Ha) with breakup of Non-forest and forest land	4.96 ha ( Non -Forest Land )
3	Mine code	38MEG03003
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 Ltd, Vill- Lumshnong, Po- Khliehriat, Dist-East Jaintia Hills, Meghalaya-793210, Phone: 03655278218, Fax : 03655278217, Email : dbansal@starcement.co.in
6	Village	Lumshnong
7	Taluka/Mandal	Khaliehriat
8	District	Jaintia Hills
9	Pincode	793200
10	State	Meghalaya
11	Post office	Khaliehriat
12	Nearest police station	Lumshnong Police Station
13	Nearest Railway station	Badarpur Railway Station -80 km SSE
14	Date of Grant of Mining Lease	20.12.2004
15	Date of Execution	17.01.2005
16	Date of opening of Mine	24.01.2005
17	Date of first Renewal , if applicable and its period & expiry	N/A
18	Date of second Renewal , if applicable and its period & expiry	N/A
19	Date of submission of Renewal application if Mining operations are continuing under deemed extension	N/A
20	Name of the Nominated owner with Address, phone, email,fax number and date of appointment	Sri. Devender Kr. Bansal , Star Cement Ltd , Lumshnong, Khaliehriat, Jaintia Hills, Phone No: 03655278218, dbansal@starcement.co.in, Fax No: 03655278217, Date of : appointment :18/6/2004
21	Name of the Mine agent with Address, phone, email,fax number and date of appointment	Sri.Sikander Prasad , Star Cement Ltd, Lumshnong, Khaliehriat, Jaintia Hills, Phone No :03655278218, sikanderprasad@starcement.co.in, Fax : 03655278217, Date of appointment : 01/09/2017
22	Name of the Mines Manager with Address, phone, email,fax number and date of appointment	Sri. Sikander Prasad, Star Cement Ltd, Lumshnong, Khaliehriat, Jaintia Hills, Phone no: 03655278218, Email: sikanderprasad@starcement.co.in, Fax : 03655278217, Date of appointment : 20/9/2017
23	Name of the Mining Engineer , Qualification and total experience with Address , phone, email, fax number and date of appointment in mine	Sri .Vinay Raja Ram, B.E ( Mining ), Total Experience: 12 years , Star Cement ltd Lumshnong, Khaliehriat, Jaintia Hills Phone No: 03655278218, Email: vinayrajaram@starcement.co.in, Fax: 03655278217, Date of appointment : 06/6/2017
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44	Name of geologisrt : Sri. Hijam. Rakesh Singh ( Date of appointment : 18/12/2008 )
25	Date of Approaval of Mining plan/Modified Mining plan with five year period & specific condition in approaval letter, if any	Date of approval of Mining Plan , 314(3)/2004-MCCM©/MP-12 dated 12.10.2004

26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five year period & specific condition in approval letter, if any	Date of approval: IBM/GHY/MEG/EJNH/LST/MS-75, dated : 29.07.2015
27	Mineral(s) granted in lease and proved for mining	Limestone and Sandstone
28	Method of Mining (Opencast, Underground)	Opencast
29	Category (Fully Mechanised, Others or Mnuual)	Fully Mechanized
30	Captive/Non Captive	Captive

**Scientific Mining :** Compliance of proposals of approved mining plan/scheme of mining (Duplication of information in existing TMIS data sheets and draft write up has been avoided)

#### **Exploration**

S.N.	Items	Proposals	Actual work	Remarks
1a	Backlog of previous year	No back log		
1b	Exploration over lease area for Geological axis 1 or 2	No proposal in the year 2017 -18	NA	
1c	Exploraion Agency & Expenditure in lakh Rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	NA	
1e	Balance reserves as on 01.11.2017		2.55 million tonnes	
1f	General remarks of inspecting officer on geology, exploration etc.			

#### **Development**

S.N.	Items	Proposals	Actual work	Remarks
2a	Location of development w.r.t lease area	As per the proposal of RoMP	Partially complied to the proposal	
2b	Separate benches in topsoil , overburden and mineral (Rule 15)	1- OB, 6-Ore	1- OB, 6-Ore	
2c	Stripping ratio or ore to OB ratio	01:00	01:00	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	Nil	Nil	
2f	General remarks of inspecting officer on development of pit w.r.t type of deposit etc.			

#### **Exploitation**

S.N.	Items	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	184252.5 Tons	100958 Tons	
3c	Recovery of salable/usable mineral from ROM production	95%	95%	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral reject generation and thershold value declared	Nil	Nil	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade mineral generation	Nil	Nil	
3h	Manual/Mechanised method adopted for segregating from ROM	Nil	Nil	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No	No	
3j	Provision of drilling & blasting in mineral benches	Yes	Yes	
3k	Provision of mining machineries in mineral benches	Yes	Yes	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 mtrs	6 mtrs	
3m	Total area covered under excavation / pits	4.58 ha	4.58 ha	
3n	Ore to OB ratio for the pit/mine during the year	01:00	01:00	
3o	Total area put in use under different heads at the end of year	4.58 ha	4.58 ha	
3p	Production of ROM mineral during last five year, as applicable		767504.15 Tons	
3q	General remarks of inspecting officer on method of mining etc			

**Solid Waste Management- Dumping**

S.N.	Items	Proposals		Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject(Rule 32, 33)	Nil		Nil	
4b	Location of topsoil , OB & mineral reject dumps	Nil		Nil	
4c	Number of dumps within lease area and outside lease area	Nil		Nil	
4d	Location of dumps w.r.t ultimate pit limit (Rule 16)	Nil		Nil	
4e	Number of active & alive dumps	Nil		Nil	
4f	Number of dead dumps	Nil		Nil	
4g	Number of dumps stabilised	Nil		Nil	
4h	Whether Retaining wall or garland drain all along dump	Nil		Nil	
4i	Length of Retaining wall or garland drain all along dump	Nil		Nil	
4j	Number of settling ponds	One		One	
4k	Specific comments of inspecting officer on waste dump management				

**Solid Waste Management- Backfilling**

S.N.	Items	Proposals		Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Nil		Nil	
5b	Area under backfilling of mined out area	Nil		Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	Nil		Nil	
5d	Total area fully reclaimed & rehabilitated	Nil		Nil	
5e	General remarks of inspecting officer on backfilling , reclamation etc				

**Progressive Mine Closure Plan**

S.N.	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			Submitted upto 2016-17	
6b	Management of worked /mined out benches i)Area available for rehabilitation (ha) ii)Afforestation done(ha) ii) 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. of sapling during the year : 251		No. of sapling planted : 255	
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 Rehabilitation by making water reservoir iv) v) Any other specific means	N/A		N/A	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated( ha) iii) Method of rehabilitation	N/A		N/A	
6e	Compliance of Environmental monitoring( core zone & buffer zone)	Complied		Complied	
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations				

**Mineral Conservation**

S.N.	Items	Proposals		Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	N/A		N/A	ROM directly feed to crusher from mine
7b	Method of grade -wise mineral sorting i.e manual or mechanical	N/A		N/A	
7c	Different grade of mineral sorted out at mines	N/A		N/A	
7d	Any beneficiation process at mines	N/A		N/A	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues				

**Environment**

S.N.	Items	Proposals		Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Topsoil		N/A	
8b	Concurrent use or storage of topsoil	N/A		N/A	
8c	Separate dumps for overburden , waste rock , rejects and fines(Rule 33)	N/A		N/A	
8d	Use of overburden , waste rock, rejects and fines dumps for restoring the land to its original use	N/A		N/A	
8e	Phased restoration , reclamation and rehabilitation of lands affected by mining operations( pits, dumps etc)	N/A		N/A	
8f	Baseline information on existence of plantation & additional plantation done(Rule 41)	Sapling : 251		Sapling :255	
8g	Survival rate	75%		75%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling done by Water Tanker		Water sprinkling done by Water Tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area				

**Compliance of Rule 45**

S.N.	Item	Comments		Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Return submitted upto	Submitted upto October 2017	
		Annual Return submitted upto	Submitted upto 2016 -17	
S.N	Item	Details Given in Annual Return	Observation of I/Officer	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Nil	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Nil	
9d	Scrutiny of Annual return on afforestation		Nil	
9e	Scrutiny of Annual return on mineral reject generation(Grade & Quantity)		Nil	
9f	Scrutiny of Annual return on ROM stock and/ or graded ore		Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost		Nil	
9i	Scrutiny of Annual return on fixed assets		Nil	
9k	Scrutiny of Annual return on mining machineries		Nil	

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

Violations under rule 11(1), 32(1)(a), and 32(5)(b) were pointed out and violation letter has been issued to the lessee on 05.12.2017. Last MCDR inspection was carried out by G.C. Meena, RCOM Guwahati on 05.08.2016 and no violation was pointed out

Name of inspecting officer with designation and date