

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

Review and updation of Mining Plan REPORT

Bangalore regional office

Mine file No : KNT/GLB/LST-53/BNG

Mine code : 38KAR10020

- (i) Name of the Inspecting : **A101**) **ARUN KUMAR**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : K Nagaraja Rao, Geologist, G Sudhakar, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 25/10/2018
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KHARCHIKHED LIMESTONE MIN**
- (b) **Registration NO.** : **IBM/13906/2012**
- (c) **Category** : **A Fully Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **KARNATAKA**
- District : **GULBARGA**
- Village : **KHARCHIKHED**
- Taluka : **CHINCHOLI**
- Post office : **MIRIYAN**
- Pin Code :
- FAX No. : **040-30006955**
- E-mail : **kalburgicementmines@gmail.com**
- Phone : **040-30006999**
- (f) **Police Station** : **MIRIYAN**
- (g) **First opening date** : **21/06/2016**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **KHARCHIKHED VILLAGE**
CHINCHOLI TALUK
KALABURAGI DISTRICT
3. (a) **Lease Number** :
- (b) **Lease area** :
- (c) **Period of lease** :
- (d) **Date of Expiry** :
4. **Mineral worked** : **LIMESTONE** **Main**

5. Name and Address of the

Lessee : M/S KALBURGI CEMENT PRIVATE LIMITED
CHATRASALA VILLAGE
CHINCHOLI TALUK GULBARGA,
KARNATAKA GULBARGA
KARNATAKA
Phone:
FAX :

Owner : M/s Kalburgi Cement Private Limited
Chatrasala Village,
Kharchikhed PO, Chincholi
Taluk, Kalburgi District
Karnataka GULBARGA
KARNATAKA
Phone:
FAX :

Manager

Name : K.SUDHAKAR
Qualification : Dip.in (Mining), FCC.
Appointment/ :
Termination date

6. Date of approval of Mining :
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	No backlogs
1b	Exploration over lease area for geological axis 1 or 2		132 core holes drilled at 200 X 200 m grids to upgrade the LSt Resources to reserves.	30 CBH proposed to establish the persistence of Limestone amounting to 1200 Mts .Total meterage drilled is 6056.40 mtrs.Gl-465.39 hac. Reserves enhanced to 348.28 Million T
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	M/s Global Environment Mining Services, Hosapete, Rs.1.07 Crores	Includes drilling, logging and analysis
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	465.39 Ha of the ML area explored
1e	Balance reserve as on 01/04/20	-	2.31 million tons	As per AR-2.30 million tons
1f	General remarks of inspecting officers on geology, exploration etc			As against the proposal of 30 CBH, 132 CBH drilled amounting to 6056 Mts covering 465.39 Ha of the ML area

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Development to begin at south central part of ML & advance towards south ,west & east	Box cut opened at south central part of ML & extending in directions as proposed	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches are proposed in OB and Mineral	Separate benches maintained in OB and Mineral	BC Soil -01 & Mineral - 01

2c	Stripping ratio or ore to OB ratio	1 : 0.13	1 : 37.45	OB removed to make road for transportation of minerals from the pit
2d	Quantity of topsoil generation in m3	No proposal	Nil	-
2e	Quantity of overburden generation in m3	13,373 m3	86,143 m3	Road made to access the pit
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The pit was developed as per the proposal in the central part of the ML area. Road was made by removing the OB to access the pit & for transportation of mineral

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	-
3b	Quantity of ROM mineral production proposed	1,00,298 MT	6,764 MT	Mine Opening Notice given on 21.06.2016
3c	Recovery of sailable/usable mineral from ROM production	1,00,298 MT	6,764 MT	Newly opened deposit
3d	Quantity of mineral reject generation	Nil	Nil	No generation of mineral reject
3e	Grade of mineral rejects generation and threshold value declared.	No Proposal	NA	-
3f	Quantity of sub grade mineral generation.	No Proposal	Nil	-
3g	Grade of sub grade mineral generation	No Proposal	NA	-

3h	Manual / Mechanised method adopted for segregating from ROM	Opencast manual method of mining with manual loading into tippers.	Opencast mechanized mining is adopted The loading and transportation is supported by Shovel and tippers	Violation pointed out dt 26.11.2018
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	NA	-
3j	Provision of drilling and blasting in mineral benches	Drilling by Jack hammers and blasting by conventional explosives	Using deep hole drilling and blasting as per 106(2) b and blasting is done by using nonel	Violation pointed out dt 26.11.2018
3k	Provision of mining machineries in mineral benches	Manual loading in to tippers	The loading and transportation is supported by Shovel with 04 tippers	Violation pointed out dt 26.11.2018
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Suitable Bench height proposed in OB & Mineral bench	Bench height maintained in OB & Mineral bench	Mineral -6 mtrs & OB-2 mtrs
3m	Total area covered under excavation/pits	6.39 Ha	1.56 Ha	-
3o	Total area put in use under different heads at the end of year	6.39 Ha - Pit, 2.32 Ha - Storage of Soil, Roads - 3.93, Green belt - 2.32 and garland drains - 0.13 ha	1.02 Ha - Pit, 0.63 ha Infrastructure, OB safety bund - 1.30 Ha (River safety bund)	-
3p	Production of ROM mineral during the last five year period as applicable	2014 - 15: 100,500 MT 2015 - 16: 100,193 MT 2016 - 17: 100,485 MT 2017 - 18: 100,298 MT	2014 - 15: Nil 2015 - 16: Nil 2016 - 17: Nil 2017 - 18: 6764 MT	Mine opened on 21st June 2016

3q General remarks of inspecting officers on method of mining etc.

Mine opened on 21st June 2016 and working in one pit. The D&B along with deployment of HEMM was done for excavation & transportation of mineral which was against the proposal. Violation pointed out

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping for OB proposed	Separate dumping done for over burden	-
4b	Location of topsoil, OB and mineral reject dumps	OB: E 815 N 550, E 820 N 600, E 905 N 570, E 890 N 620	OB: E 2026 N 852, E 2087 N 867, E 2039 N 941, E 2061 N 945	The location of the OB dump has been changed. Violation pointed out.
4c	Number of dumps within lease area and outside of lease area	WML-01 OML-Nil	01 dump within ML	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed Within UPL	The OB is dumped along the lease boundary as safety bund.	Entire area is mineralized
4e	Number of active and alive dumps.	01	01	-
4f	Number of dead dumps.	No Proposal	Nil	-
4g	Number of dumps established.	No Proposal	Nil	-
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed	No work done	The mine was opened in 2016
4i	Length of Retaining wall or garland drain all along dumps	119 m long	No work done	The mine is in initial stage

4j	Number of settling ponds	04	No work done	Mine opened in 2016 & very meger production
4k	Specific comments of inspecting officer on waste dump management			Separate OB dump has been maintained but the location of the OB dump has been changed for which the violation has been pointed out. The mine was opened in 2016 & is in the initial stage.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No Proposal	NA	The Mining was started on 21.06.2016. Hence no proposal of back filling
5b	Area under backfilling of mined out area	No proposal	NA	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Nil	-
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.			The mine is in the initial stage and the mining operations was started on 21.06.2016.Hence no Backfilling done or proposed & does not arise at this stage of mining.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	-	PMCP report submitted on 29th June 2018	-
6b	Area available for rehabilitation (ha) .	No proposal	Nil	-
6c	afforestation done (ha).	No proposal	Nil	-
6d	No. of saplings planted during the year	No proposal	Nil	-
6e	Cumulative no .of plants	No proposal	Nil	-
6f	Any other method of rehabilitation	No proposal	Nil	-
6g	Cost incurred on watch and care during the year	No proposal	nil	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Nil	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Nil	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal	Nil	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil	-

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Nil	-
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	1225 saplings proposed	Nil	Mine opened in 2016
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.49	Nil	Mine opened in 2016
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	By Afforestation	Nil	Outside ML 40300 no of plants are plants covering 12 Ha
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental monitoring proposed in core zone & buffer zone	Environmental monitoring is carried out in core zone & buffer zone	The environmental parameters are within the permissible limits.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP activities were not taken up as the mine is in initial stage. However environmental monitoring is carried out in core zone & buffer zone and huge plantation have been done outside the lease area with 84% survival rate.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM Mineral proposed to be loaded and transported to crusher in their Chatrasala lease	ROM is loaded and transported to existing crusher in the adjacent Chatrasala lease by tippers	Chatrasala & Kerchikhed lease belongs to the same owner and are adjacent to each other.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	Nil	-
7c	Different grade of mineral sorted out at mines.	No proposal	Nil	-
7d	Any beneficiation process at mines	No proposal	Nil	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			All the excavated limestone from the mine is loaded and transported to their adjacent lease in Chatrasala where crushing is done & transported to the plant via belt conveyor for captive use.

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Removed and stacked separately	Near the lease boundary
8b	Concurrent use or storage of topsoil	No proposal	Nil	Will be Utilized on mature dumps in future
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump of OB proposed	Separate dump of OB maintained	-

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	Nil	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	Nil	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	0.49 Ha,1225 nos	Plantation with in lease area is to be taken up	12.00 Ha Outside ML, 40300 Nos of trees Planted
8g	Survival rate	WML-80 %	Nil	OML-84 %
8h	Water sprinkling on roads to control airborne dust	Proposed	8KL water tanker is used to suppress the airborne dust on haul roads in mines	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The mine is in initial stage and environmental activities needs to be carried out. OB & top soil has been stacked separately near the eastern side of the ML boundary

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	-	M.R. Submitted up to Sep - 2018. A.R. submitted up to year 2017-2018 on 28th June 2018	-

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager- G Sudhakar ME- G Venkateswarlu Geologist: K Nagaraja Rao	Manager- J Pradeep Kumar ME- N Prasanth Geologist: K Nagaraja Rao	Notice of appointment & termination received
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	1.02 Ha - Pit, 0.63 ha Infrastructure , OB safety bund - 1.30 Ha (River safety bund)	Appears to be correct	-
9d	Scrutiny of Annual return on afforestation	WML- No plantation done OWL-40300 @ 84 % Survival	Appears to be correct	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Appears to be correct	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Stock (Cement Grade) OB: Nil, Production: 6764 MT,CB: Nil	Appears to be correct	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Production Cost: Rs.165.60/Ton	Appears to be correct. Captive mine	
9h	Scrutiny of Annual return on fixed assets	Rs.138,31,00,000/- including plant and machinery, land and residential building	Appears to be correct	
9k	Scrutiny of Annual return on mining machineries	01-PC 200 LC 04-Tata tippers 01-Wagon Drill,	M/c deployed as shown in AR	-

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	27/11/2017			

Date :

(ARUN KUMAR)

Indian Bureau of Mines