

**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-42/BNG

Mine code : 38KAR10018

- (i) Name of the Inspecting : **A101**) **ARUN KUMAR**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri. V.Shivakumar- Manager & Mining Engineer
Official with
Designation
- (iv) Date of Inspection : 28/02/2020
- (v) Prev.inspection date : 05/01/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **FEROZABAD LIMESTONE MINE**
- (b) **Registration NO.** : **IBM/18549/2014**
- (c) **Category** : **A Fully Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **KARNATAKA**
- District : **GULBARGA**
- Village : **FEROZABAD**
- Taluka : **GULBARGA**
- Post office : **FEROZABAD**
- Pin Code : **585308**
- FAX No. : **080-40302844 (F),**
- E-mail : **k.sendilkumar@zcltd.com, g**
- Phone : **080-41194408 (O), 9449267**
- (f) **Police Station** : **Farthabad**
- (g) **First opening date** : **30/09/2014**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **M/S.GULBARGA CEMENT LIMITED,**
ADVENTZ CENTRE , 2nd&3rd flooor, No 28,
CUBBON RD BANGALORE.
3. (a) **Lease Number** : **KAR1484**
- (b) **Lease area** : **989.89**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **04/10/2027**
4. **Mineral worked** : **LIMESTONE** **Main**

5. Name and Address of the

Lessee : GULBARGA CEMENT LIMITED
 Adventz Centre, 3rd Floor
 (North Wing), No. 28,
 Cubbon Road, Bangalore
 BANGALORE KARNATAKA
 Phone:
 FAX :080-40302844

Owner : S.Sundaram, Director and Nominated owner
 Adventz Centre , 2 nd and
 3rd floor No 28, Cubbon rd,
 Bangalore BANGLORE URBAN
 KARNATAKA
 Phone: 08041194408
 FAX : 08040302844

Agent : K.Sendil Kumar
 M/s Gulbarga Cement Ltd.
 Kandoor mall ,Office block
 1&2,2nd floor,SVP Circle,
 Station Bazar &Rd GULBARGA
 KARNATAKA
 Phone: 8472223776, 9449267494.
 FAX :

Mining Engineer

Name : SENDIL KUMAR,Full Time
 Qualification :
 Appointment/ : 15/07/2013
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : MP review under 17(1) MCR 2016 27/01/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Nil	No backlogs
1b	Exploration over lease area for geological axis 1 or 2	G1 ,G2 & G3	G1-327.59 Ha,G2-272.45 Ha & G3-165.18 Ha	146 holes with 5994.2 mts drilled previously
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil	No exploration proposals
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	165.18 Ha	Exploration proposed in 2020-21 and 2021-22(40 boreholes in each year)
1e	Balance reserve as on 01/04/20	Nil	412.09 Million Tones	As per the document
1f	General remarks of inspecting officers on geology, exploration etc			600.04 Ha of area has been explored under G1 & G2 level of exploration.165.18 Ha is proposed in 2020-2022 to bring the G3 level to G1 level.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Location of development proposed: N-1891834-1892050 & E-695015-695045	Working Location: N-1891790-1892030 & E-695020-695250	Approx. size of the pit-220X216X18 Mts
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed in OB and Mineral	Separate benches proposed in OB and Mineral	3 Benches in OB & 1 bench in Limestone
2c	Stripping ratio or ore to OB ratio	1: 5.07	No production and OB handled in the year 2018-19	Mines was under temporary discontinued in 2018-19
2d	Quantity of topsoil generation in m3	4000 Tons	Nil	Mines was temporarily discontinued

2e	Quantity of overburden generation in m3	970000 Tons	Nil	Mines was temporarily discontinued
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mining operation was temporarily discontinued from 20.07.2017 to 15.06.2019 due to delay in commissioning of the cement plant project.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit -Pit 1 proposed for production	Only one pit	Nil
3b	Quantity of ROM mineral production proposed	24000 MT of Limestone for the period 2018-19	Nil	Mines was under temporary discontinued in 2018-19
3c	Recovery of sailable/usable mineral from ROM production	100% recovery proposed	No production carried out	Nil
3d	Quantity of mineral reject generation	60550m3	Nil	Mine was temporarily discontinued
3e	Grade of mineral rejects generation and threshold value declared.	Not specified	Nil	Nil
3f	Quantity of sub grade mineral generation.	No proposal	Nil	Nil
3g	Grade of sub grade mineral generation	No proposal	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal for segregating from ROM	All excavated ROM is stacked at the earmarked place	Nil

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	No such beneficiation study carried out	Nil
3j	Provision of drilling and blasting in mineral benches	Deep Hole drilling & Blasting with HEMM proposed in mineral benches	No drilling & Blasting Operations carried out in the reporting year	Mines was under temporary discontinued in 2018-19
3k	Provision of mining machineries in mineral benches	Drill- 150mm dia, 01 No., Hydraulic Excavator of 6.5 m ³ -2 Nos. & Rear dump trucks-06 Nos	No mining machineries used as there was no production	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height proposed : OB- 7 mts & Mineral-9 mts	Bench height of 5-7 mts in OB & mineral maintained	Nil
3m	Total area covered under excavation/pits	30.81 Ha at the end of plan period	3.56 Ha covered under working	Mines was under temporary discontinued in 2018-19
3n	Ore to OB ratio for the pit/mine during the year.	1: 5.07	No production and OB handled in the year 2018-19	Mines was under temporary discontinued in 2018-19
3o	Total area put in use under different heads at the end of year	Area under mining-30.81 Ha, waste dump-22.31 Ha, Infrastructure-9.60 Ha, Roads-3.60 Ha, Green belt-2.25 Ha at the end of the plan period	Area under mining-3.56 Ha, waste dump-3.5 Ha, Infrastructure & roads-1.7 Ha at the end of the reporting year.	Nil
3p	Production of ROM mineral during the last five year period as applicable	2014-15- Nil 2015-16- 3003000 2016-17- 3003000 2017-18- Nil 2018-19- 24000 (in tonnes)	2014-15- Nil 2015-16: 24000 2016-17: Nil 2017-18: Nil 2018-19: Nil (in tonnes)	Mining operation was temporarily discontinued from 20.07.2017 to 15.06.2019.

3q	General remarks of inspecting officers on method of mining etc.	Mining operation was temporarily discontinued from 20.07.2017 to 15.06.2019 due to delay in commissioning of the cement plant project
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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 of OB Proposed	separate dump for Overburden is carried out	Nil
4b	Location of topsoil, OB and mineral reject dumps	Proposed location of OB dump: E695508-695589 & N1892657-1892845 in WD1	Proposed location of OB dump: E695515-695589 & N1892680-1892840 in WD1	Nil
4c	Number of dumps within lease area and outside of lease area	03 Dumps proposed with in ML area	3 separate dumps are maintained of overburden with in ML area	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed dumps are located within UPL & north east of ML	All the 3 OB dumps are located within UPL & north east of ML	Entire area is mineralized
4e	Number of active and alive dumps.	3 Dumps proposed	3 dumps available	Nil
4f	Number of dead dumps.	No proposal	Nil	All the dumps are alive & active
4g	Number of dumps established.	No proposal	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall & garland drain proposed all along dumps	Garland drain made along the dump towards the lease boundary	Nil
4i	Length of Retaining wall or garland drain all along dumps	RW & GD - 500 Mts	RW- Nil,GD-480 Mts	Violation issued for non compliance
4j	Number of settling ponds	No proposal	Nil	Nil

4k	Specific comments of inspecting officer on waste dump management			3 Nos. of OB dumps as proposed is maintained, however retaining wall is not constructed as per the approved document. Violation issued for the same
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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	Nil	Nil
5b	Area under backfilling of mined out area	No proposal	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Top soil generated was proposed to be dumped along the safety zone	No generation of top soil	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Limestone persists in depth and pit is not matured for back filling.

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 to be submitted on or before 1st July every year	PMCP report submitted for the year 2018-19	Nil

6b	Area available for rehabilitation (ha) .	No proposal	Nil	Nil
6c	afforestation done (ha).	No proposal	Nil	Nil
6d	No. of saplings planted during the year	No proposal	Nil	Nil
6e	Cumulative no .of plants	No proposal	Nil	Nil
6f	Any other method of rehabilitation	No proposal	Nil	Nil
6g	Cost incurred on watch and care during the year	No proposal	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Nil	The mine is in the initial stage & no pit is matured for backfilling.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No proposal	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Nil	Nil

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	675 no of saplings	No afforestation carried out	Violation issued for non compliance
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.45 Ha proposed	Nil	Violation issued for non compliance
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental monitoring in Core Zone & Buffer Zones proposed	Environmental monitoring in Core Zone & Buffer Zones were done every month. Quarterly monitoring reports are being sent regularly for every season to the concerned authorities	Environment monitoring is carried out by recognized consultant M/s.Mineral Engineering services,Bellari
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP activity was not carried out as per the proposal due to lockdown. Clarification sought from the lessee

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	All the blasted limestone were proposed to loaded & stacked at the year marked place	Blasted limestone were stacked at the year marked place	Mine was temporarily discontinued in 2018-19.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	Nil	Nil
7c	Different grade of mineral sorted out at mines.	No proposal	Nil	Nil

7d	Any beneficiation process at mines	No proposal	No beneficiation process adopted at mines	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			All the blasted limestone were excavated & stacked at the earmarked place as per the approved proposal.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and utilization of topsoil proposed	No top soil generated in the reporting year due to non working of mines	The mine was temporary discontinued
8b	Concurrent use or storage of topsoil	Proposed to dump along safety zone of the lease boundary	Top soil generated in the previous years were dumped along the safety Zone	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for overburden proposed	3 dumps of OB maintained	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal for reclamation and rehabilitation of the mined out area during the RMP.	Backfilling proposed to be done at the conceptual stage of mining	Mine is in the initial stage

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed for afforestation in 0.45 Ha with plantation of 675 saplings	No afforestation /plantation was carried out	Violation issued
8g	Survival rate	Not specified	Nil	Nil
8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed on haul roads to control airborne dust	Water sprinkling was done regularly to suppress the dust generation.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around the mine is maintained. However no plantation was carried out in the reporting year .Violation issued for non compliance.

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 January 2020 Annual Return submitted for the year 2018-19	Submitted AR vide letter No:GCL/IBM/Return/2018-19/1 dated 06.05.2019	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer and Manager- Mr V.Shivakumar Geologist: Nil	Shri. V Shiva kumar was present during the course of inspection	Violation issued for non appointment of Geologist
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	3.56 Ha under pit, 3.50 Ha under dump, & 1.70 under road	Appears to be correct	
9d	Scrutiny of Annual return on afforestation	Nil	No afforestation carried out within & outside the ML area	Violation issued for non compliance

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM:OB & CB- 24,000 Tons ,Production - Nil	Appears to be correct
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	No production has been carried out & its a captive mine. Mine was temporarily discontinued
9h	Scrutiny of Annual return on fixed assets	Rs 25.20 crores	Appears to be correct
9k	Scrutiny of Annual return on mining machineries	Nil	No machineries deployed due to mine were under temporary discontinuation.

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)	23/06/2020			
MCDR17	Rule 26(1)	23/06/2020			
MCDR17	Rule 45(7)(a)	23/06/2020			
MCDR17	Rule 55(1)(1)	23/06/2020			

Date :

(ARUN KUMAR)

Indian Bureau of Mines