

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

MCDR inspection REPORT

Bangalore regional office

Mine file No : KNT/GLB/LST-42/BNG

Mine code : 38KAR10018

- (i) Name of the Inspecting : **277**) **GANGADHAR BHAKAT**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri V. Shiv Kumar, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 14/02/2023
- (v) Prev.inspection date : 23/06/2021

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 : v.shivakumar@zcltd.com, gc.
- 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** : 765.22
- (c) **Period of lease** : 50
- (d) **Date of Expiry** : 04/10/2057
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 : S SUNDARAM
 ADVENTZ CENTRE, 2nd AND 3rd
 FLOOR, NO 28, CUBBON rd,
 BANGALORE GULBARGA
 KARNATAKA
 Phone: 08041194408
 FAX : 08040302844

Geologist
 Name : Jyotirmayee Mohanty, Full Time
 Qualification : Master of Science (Applied Geology)
 Appointment/ : 05/08/2021
 Termination date

Manager
 Name : SHIVAKUMAR V
 Qualification : B E MINING WITH SECOND CLASS MINE MANAGE
 Appointment/ : 30/09/2017
 Termination date

6. Date of approval of Mining : MP review under 17(1) MCR 2016 27/01/2017
 Plan/Scheme of Mining : MP review under 17(1) MCR 2016 25/06/2020

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	
1b	Exploration over lease area for geological axis 1 or 2	Proposed 40 Borehole upto 60m depth.	10 (PBH 38,43,57,58,61,62,69,71,75 & 78)	Balance proposals for exploration incorporated in the next period of Review & Updation of Mining Plan. Hence no violation pointed out.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	-	M/s. Earth & Environment.	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	-	437.63 Ha.	
1e	Balance reserve as on 01/04/20		285.279 MT (as on 01/04/2022)	
1f	General remarks of inspecting officers on geology, exploration etc			Balance proposals for exploration incorporated in the next period of Review & Updation of Mining Plan. Hence no violation pointed out.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Proposed Pit-1	Working is being carried out within the proposal.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in mineral & OB proposed.	Maintained as per proposal.	
2c	Stripping ratio or ore to OB ratio	1:7.81 (in Cum)	1:7.81 (in Cum)	Ore: 8000 Cum. OB: 62499 Cum. As reported by the lessee during inspection
2d	Quantity of topsoil generation in m3	7352.5	7352.5	

2e	Quantity of overburden generation in m3	55146.5	55146.5	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Working is being carried out along the section line X X' as per the proposal.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit proposed.	One pit.	
3b	Quantity of ROM mineral production proposed	20000 Tons	20000 Tons	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	-
3d	Quantity of mineral reject generation	No proposal.	Nil	No mineral reject generated.
3e	Grade of mineral rejects generation and threshold 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	Mechanized method proposed for segregating from ROM.	Mechanized method adopted for segregating from ROM.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal.	NIL	

3j	Provision of drilling and blasting in mineral benches	YES	Carried out as per proposal.	
3k	Provision of mining machineries in mineral benches	Excavator- 2 No. Tipper- 6Nos Drilling Machine-1No. Water Tanker- 02 No.	Excavator- 1 No. Tipper- 1Nos Drilling Machine-1No. Water Tanker-01 No.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height proposed 9m.	The height of benches in mineral maintained 9m maximum.	As per the proposal.
3m	Total area covered under excavation/pits	7.90 Ha.	6.06 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:4.99 (in ton)	1:4.99 (in ton)	
3o	Total area put in use under different heads at the end of year	Working-7.90Ha waste dump- 5.39Ha Infrastructure & Roads- 9.60 Ha	Working-6.06 Ha waste dump- 5.39 Ha Infrastructure& roads - 3.58 Ha	As per the annual return for the year 2021-22.
3p	Production of ROM mineral during the last five year period as applicable	2017-18 - Nil. 2018-19 - 24000 2019-20 - Nil. 2020-21-20000 2021-22 -20000 (In tons)	2017-18 - Nil. 2018-19 - Nil. 2019-20 - Nil. 2020-21 - 20000 2021-22 - 20000 (In tons)	
3q	General remarks of inspecting officers on method of mining etc.			Production and development carried out within the proposed location. There is no change in method of mining.

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 proposed for Topsoil & OB.	Separate dumping maintained for Topsoil & OB.	-

4b	Location of topsoil, OB and mineral reject dumps	Topsoil: N-1892250 to 1892280, E695700 to 695750, OB: N-1892756 to 1892860, E-695533 to 695451	Dumping carried out within the proposed location.	-
4c	Number of dumps within lease area and outside of lease area	3 Waste dumps & 1 Topsoil dump (WML).	3 Waste dumps & 1 Topsoil dump (WML).	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dumps within the UPL.	Dumps are within the UPL.	NIL
4e	Number of active and alive dumps.	3 active waste dumps & 1 Topsoil dump.	3 active waste dumps & 1 Topsoil dump.	
4f	Number of dead dumps.	NIL	NIL	
4g	Number of dumps established.	No proposal.	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there.	YES	Garland drain maintained all along the dumps.	
4i	Length of Retaining wall or garland drain all along dumps	Proposed 281m of Garland drain & 281m of Retaining wall.	Only 281m Garland drain constructed all along the dumps.	Not carried out construction of Retaining wall. However this has been incorporated in the next period of approved Review & Updation of Mining Plan.
4j	Number of settling ponds	No proposal.	NA	

4k	Specific comments of inspecting officer on waste dump management			Dumping carried out as per proposal. Only 281m Garland drain constructed all along the dumps. Not carried out construction of Retaining wall. However this has been incorporated in the next period of approved Review & Updation of Mining Plan. Hence no violation pointed out in this regard.
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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	
5b	Area under backfilling of mined out area	No proposal.	NIL	
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	-	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No proposal for backfilling for the year 2021-22.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	YES	PMCP report for the year 2021-22 was submitted on 01.07.2022	
6b	Area available for rehabilitation (ha) .	No proposal.	NIL	
6c	afforestation done (ha).	0.45	0.46	
6d	No. of saplings planted during the year	675 Nos	695 Nos.	Information furnished by the mine management during inspection.
6e	Cumulative no .of plants	-	1733 Nos	During this plan period.
6f	Any other method of rehabilitation	No proposal.	NIL	
6g	Cost incurred on watch and care during the year	NIL	Rs. 8,86,250/-	As reported by the lessee during inspection.
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	No proposal.	NIL	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal.	NIL	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal.	NIL	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental monitoring proposed for Air, Water & Noise at core zone & buffer zone.	Environmental monitoring carried out by M/s. Mineral Engineering Services for Air, Water & Noise at core zone & buffer zone.	All the parameters are within the limit.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			The PMCP proposals implemented in the mine as per proposal.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Only crushing & sizing proposed within the lease.	Only stacking within the proposed location.	The plant has not yet been installed for captive use.
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			Beneficiation is not required and entire produced ROM is to be utilized in captive cement plant.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	7352.5 Cum of topsoil generated and storage proposed.	Carried out as per proposal.	
8b	Concurrent use or storage of topsoil	7352.5 Cum of topsoil generated and storage proposed.	7352.5 Cum of topsoil generated and stored at proposed location.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump is proposed for OB	Separate dump for is maintained as per proposal.	No mineral reject generated.
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)	675 Nos saplings.	695 Nos saplings planted.	
8g	Survival rate	80%	95%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed.	Water sprinkling was carried out to control air born dust.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The aesthetic beauty in and around the mines area is good.

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 A.R submitted up to Year 2021-22		M.R. submitted on 06/02/2023. A.R submitted on 20/06/2022.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	"Mines Manager: Shri V. Shivakumar Geologist: Ms. Jyotirmayee Mohanty	Appears to be correct.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area covered under Current (O/C) working: 6.06 ha. Infrastructure & Road: 1.70 ha. waste disposal: 5.39 Ha	Appears to be correct.	As per AR FY 2021-22
9d	Scrutiny of Annual return on afforestation	WML: 695Nos, survival rate: 95%	Appears to be correct.	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No mineral reject generated.	NIL	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening Stock of ROM: Tons Closing Stock of ROM: 44000. ROM Production: Tons. 20000 Tons. Closing Stock 64000 Tons.	Appears to be correct.	As per AR-2021-22
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine price Rs. 210/- per ton production cost: Rs. 210/- per ton	Captive consumption.	
9h	Scrutiny of Annual return on fixed assets	Value of fixed assets: Rs. 264650400 /-	Appears to be correct.	As per AR-2021-22
9k	Scrutiny of Annual return on mining machineries	Crusher-1No. Excavator- 1 No. Tipper- 1Nos Drilling Machine- 1No.	Appears to be correct.	

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

Violation observed		Show couse position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date :

(GANGADHAR BHAKAT)

Indian Bureau of Mines