

MCDR-MiFLOLST/1/2023-BNG-IBM_RO_BNG
INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION

I/29364/2024

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. S. Raghuram, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 30/11/2023
- (v) Prev.inspection date : 14/02/2023

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~~ ML No. 2558
- (b) **Lease area** : 765.22 Ha
- (c) **Period of lease** : 50 Years up to 04/10/2057
- (d) **Date of Expiry** : 04/10/2057
4. **Mineral worked** : LIMESTONE Main

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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 : R K Nagesh, Director & Nominated owner
 Adventz Centre, 2nd Floor,
 No. 28, Cubban Road,
 Bangalore BANGALORE
 KARNATAKA
 Phone: 9880847284
 FAX :

Agent : R K Nagesh
 Adventz Centre, 2nd Floor,
 No. 28, Cubban Road,
 Bangalore BANGALORE
 KARNATAKA
 Phone: 9880847284
 FAX :

Mining Engineer

Name : S RAGHURAM, Full Time
 Qualification :
 Appointment/ : 30/09/2017
 Termination date

Geologist

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

Manager

Name : S.Raghuram
 Qualification : FCC
 Appointment/ : 30/09/2017
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : MP review under 17(1) MCR 2016 27/01/2017
 MP review under 17(1) MCR 2016 25/06/2020
 MP review under 17(1) MCR 2016 19/08/2022

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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 35 (24 Core+ 11DTH) Borehole upto 2800m (1920m + 880m) depth.	24 Core bore hole upto 2023m depth.	Violation pointed out.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	-	Exploration carried out by M/s. Synergy Geotech Pvt. Ltd. Ballari. Total Expenditure of Rs. 51,65,000/-	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		214.27 MT (as on 01/04/2023)	Average grade of CaO 43%
1f	General remarks of inspecting officers on geology, exploration etc			Exploration proposal 11 Nos of DTH borehole up to 880m have not been carried out. Hence 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: 9.325	1: 8.875	Ore: 8000 Cum. OB: 71000 Cum. As reported by the lessee during inspection.
2d	Quantity of topsoil generation in m3	9500	Nil.	Violation pointed out.

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2e	Quantity of overburden generation in m3	74600	71000	--
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Working is being carried out within 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	

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3j	Provision of drilling and blasting in mineral benches	Yes.	Carried out as per proposal.	
3k	Provision of mining machineries in mineral benches	Excavator- 1 No. Tipper- 6 Nos Drilling Machine-1No. Water Tanker- 02 No.	Tipper- 3 Nos 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	7.96 Ha.	7.96 Ha.	
3n	Ore to OB ratio for the pit/mine during the year.	1:6.26 (in ton)	1:5.68 (in ton)	Ore: 20000Tons. OB:113600Tons.
3o	Total area put in use under different heads at the end of year	Working-7.96Ha waste dump- 8.04Ha Infrastructure & Roads- 7.74 Ha	Working-7.96 Ha waste dump- 7.97 Ha Infrastructure & roads - 4.18 Ha	As per the annual return for the year 2022-23.
3p	Production of ROM mineral during the last five year period as applicable	2018-19 - 24000 2019-20 - Nil. 2020-21 - 20000 2021-22 - 20000 2022-23 - 20000 (In tons)	2018-19 - Nil. 2019-20 - Nil. 2020-21 - 20000 2021-22 - 20000 2022-23 - 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
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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	N1892248-E695700 N1892183-E695720	Waste dumping carried out within the proposed location.	No Topsoil generated during the year 2022-23.
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 39m of Garland drain & 1252m of Retaining wall.	Only 39m Garland drain constructed all along the dumps.	Construction of Retaining wall has not been carried out. Violation pointed out.
4j	Number of settling ponds	No proposal.	NA	
4k	Specific comments of inspecting officer on waste dump management			Waste dumping carried out as per proposal. Only 39m Garland drain constructed all along the dumps. Construction of Retaining wall has not been carried out. Violation pointed out under rule 11(1) of MCDR, 2017.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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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 2022-23.

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).	Yes.	PMCP report for the year 2022-23 was submitted on 06.07.2023	
6b	Area available for rehabilitation (ha) .	No proposal.	NIL	
6c	afforestation done (ha).	1	1	
6d	No. of saplings planted during the year	2000 Nos	2000 Nos.	Information furnished by the mine management during inspection.
6e	Cumulative no .of plants	-	4415 Nos	As per AR FY 2022-23.
6f	Any other method of rehabilitation	No proposal.	NIL	
6g	Cost incurred on watch and care during the year	NIL	Rs. 1.1 Lakhs.	As reported by the lessee during inspection.

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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

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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 environmental monitoring parameters are within the permissible 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 mineral 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
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8a	Separate removal and utilization of topsoil (Rule 32)	9500 Cum of topsoil generated and to be utilized proposed.	Nil.	Violation pointed out.
8b	Concurrent use or storage of topsoil	9500 Cum of topsoil generated and to be utilized proposed.	NIL	-
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)	--	4415 Nos. of saplings(2671 Nos WML & 1744 OML).	
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.	Water tanker capacity 20,000 Litters.
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
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9a	Status of submission of Monthly and Annual returns	M. R. submitted up to Oct, 2023. A.R submitted up to Year 2022-23.		M.R. submitted on 06/11/2023. A.R submitted on 27/06/2023.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	" Mines Manager: Shri S. Raghuram, 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: 7.96 ha. Infrastructure & Road: 1.80 ha. waste disposal: 7.97 Ha	Appears to be correct.	As per AR FY 2022-23
9d	Scrutiny of Annual return on afforestation	WML:1000 Nos & OML:1000, 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: 0 Tons ROM Production: Tons. 20000 Tons. Closing Stock 20000 Tons.	Opening Stock of ROM: 64000 Tons & 84000Tons	Violation pointed out under rule 45(&) of MCDR, 2017.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine price Rs. 220/- per ton production cost: Rs. 478.85/- per ton	Captive consumption.	Violation pointed out.

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9h	Scrutiny of Annual return on fixed assets	Value of fixed assets: Rs. 1443600000 /-	Appears to be correct.	As per AR-2022-23
9k	Scrutiny of Annual return on mining machineries	Excavator- 1 No. Tipper- 3 Nos Drilling Machine- 1No.	Appears to be correct.	

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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)	16/12/2023				
MCDR17 Rule 45(7) (a)	16/12/2023	14/02/2024			

Date :**(GANGADHAR BHAKAT)**

Indian Bureau of Mines