

MINING PLAN INSPECTION REPORT FOR THE YEAR 2024-25

S. N.	Particulars	Details
1	Name of the Mine	Ferozabad Limestone Mine(2558)
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	765.22Ha
3	Minecode	38KAR10018
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/18549/2014
5	Name of the lessee, Address, phone, email and fax number	M/s GULBARGA CEMENT LTD Adventz Centre, 2 nd floor No.28 Cubbon Road, Bengaluru-560001 Karnatak, India Tel:08041194408 , Fax 080-40302844/88 Email:gcl@zcltd.com
6	Village	Ferozabad.Kirani and Somanathanahalli
7	Taluk/Mandal	Gulbarga
8	District	Kalaburagi
9	Pincode	585102
10	State	Karnataka
11	Post office	Gulbarga
12	Nearest police station	Farthabad
13	Nearest Railway station	Gulbarga
14	Date of Grant of Mining Lease	5/10/2007
15	Date of Execution	5/10/2007
16	Date of opening of Mine	30/09/2014
17	Date of first Renewal, if applicable and its period & expiry	NA
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not Applicable
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr. R.K.Nagesh M/s Gulbarga Cement ltd, Adventz Centre, 2 nd floor, No.28 Cubbon Road, Bangalore -560001 Phone: 9880847284 E-Mail: r.nagesh@zcltd.com
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr.R.K.Nagesh M/s Gulbarga Cement ltd, Adventz Centre, 2 nd floor, No.28 Cubbon Road, Bangalore -560001 Phone: 9880847284 E-Mail: r.nagesh@zcltd.com
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Mr.P.Venkateswararao M/s GULBARGA CEMENT LTD H.NO.1-949/12/1,2,3 PLOT NO.173,174 Shivashakti layout, Near Ganga Vihar Apartment, SaiMandir road, Kotanoor-D, Gulbarga-585102,Karnataka,

		Ph.no; 9989094381 E-Mail: gcl@zcltd.com
23	Name of the Mining Engineer & Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mining Engineer-P.Venkateswararao, AMIE(Mining),Experience-28 Years Geologist- Kum. Jyotirmayee Mohanty,Msc in Applied Geology, Experience -9years M/s GULBARGA CEMENT LTD H.NO.1-949/12/1,2,3 PLOT NO.173,174 Shivashakti layout, Near Ganga Vihar Apartment, SaiMandir road, Kotanoor-D, Gulbarga-585102,Karnataka, Ph.no; 9989094381 E-Mail: gcl@zcltd.com
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes,
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	19/8/2022, vide letter no.279/738/2002.BNG/1049 dated 19/8/22
26	Date of Approval of Scheme of Mining/ Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	19/8/2022, vide letter no.279/738/2002.BNG/1049 dated 19/8/22
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Open cast, Underground)	Open cast
29	Category (Fully Mechanized, Others Or Manual)	'A' Category (Fully Mechanized)
30	Captive/ Non captive	Captive
31	Date of inspection	8.11.2024
32	Name of accompanying mine officials with designation	P. Venkateswara Rao- Mines Manger & Mining Engineer

Exploration:

Sl.No.	Item	Proposals (year 2023-24)	Actual work (year 2023-24)	Remarks
1a	Backlog of previous year	22 core drilling 1760m 11 DTH 880m	32 Core drilling holes, 2451m	Proposed drilling achieved.
1b	Exploration over lease area for Geological axis 1 or 2.	G1-88 Ha G2- 44Ha	G1-132Ha.	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Synergy Geotech Rs.49,28,000	Rs.62,40,000	As per AR 2023-24 Rs. 57.60,000/- is spent on exploration.
1d	Balance area to be explored to bring Geological axis in 1	-	-	100.98 Ha under G3 remaining to be converted to G1 & G2 as per draft

	or 2			modifications to Approved RMP submitted
1e	Balance Reserves as on 31.03.2024	-	In Metric Tones Proved = 214252551 Probable = 170987097	As per AR 2023-24
1f	General remarks of inspecting officer on geology, exploration etc.	The extent of limestone deposit within the ML area is established up to average depth of 360.77 mRL i.e, thickness of limestone mine varies from 6-70m as per the current exploration data. Grade Cao-40-48.02 Mgo-0.33-3.70. Based on the exploration carried out till date G1 extent is 477.25Ha, G2-186.99Ha & G3-100.98 Ha. Exploration by 98 core boreholes over 8000m is proposed over next 3 years in the draft modifications to Approved RMP submitted to cover the entire ML under G1 Level of exploration.		

Development

S/ No	Item	Proposals (year 2023-24)	Actual work (year 2023-24)	Remarks
2a	Location of development w.r.t. lease area	E694972- E694896 N1892058-N1891798	E694972- E694896 N1892058-N1891798	Working carried out within the proposed grid intervals.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Separate benches for overburden & mineral proposed	Separate benches of overburden & Mineral are Maintained as per proposal.	
2c	Stripping ratio ore to OB ratio	0.28Ton/m3 19.1: 1	1:0	No waste is generated during the FY. Violation issued.
2d	Quantity of topsoil generation in m3	25381	NIL	No top soil was generated in reporting year
2e	Quantity of overburden generation in m3	228429 in m ³	nil	452,289 tonnes of Topsoil & Waste (OB) for development was proposed and nil quantity achieved. Violation issued.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The deposit is flat sedimentary deposit with OB ranging from 1-14m thick with maximum height of 9m bench in OB and 5m in Mineral with bench width of +25m. Presently two benches each in the OB and Mineral is developed suitable to the type of deposit.		

Exploitation

S/ No	Item	Proposals (year 2023-24)	Actual work (year 2023-24)	Remarks
3a	Number of pits proposed for production	One pit proposed	working is carried out in only one pit	
3b	Quantity of ROM mineral	20000 MT	20000 MTs	100% Proposed production

	production proposed			achieved.
3c	Recovery of salable/usable mineral from ROM production	Recovery 100%	Recovery 100%	-
3d	Quantity of mineral reject generation	No Proposal	No Proposal	-
3e	Grade of mineral reject generation and threshold value declared.	Not applicable	Not applicable	-
3f	Quantity of sub-grade mineral generation	No proposal	Not Applicable	-
3g	Grade of sub-grade mineral generation	No proposal	Not Applicable	-
3h	Manual / Mechanized method adopted for segregating from ROM	Mechanized method proposed	Mechanized method	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	Not Applicable	-
3j	Provision of drilling & blasting in mineral benches	Deep hole Drilling & Blasting is proposed for removal of hard strata in mineral benches.	Drilling & Blasting carried out in hard strata.	
3k	Provision of mining machineries in mineral benches.	Mining Machineries 1) Excavator - 1Nos. 2) Dumpers/Tippers - 3Nos. 3) Water Tankers - 1Nos. 4) Drilling Machine - 1Nos.	Mining Machineries 1) Excavator - 1Nos. 2) Dumpers/Tippers - 3Nos. 3) Water Tankers - 1Nos. 4) Drilling Machine - 1Nos.	The reported machineries found deployed on the day of inspection.
3l	Whether height of benches in overburden and mineral suitable for method of mining	Bench Height 5 Mtrs & Width 25 Mtrs proposed	Bench height and width is maintained as per the proposal.	-

	proposed in MP/SOM																											
3m	Total area covered under excavation/pits	Mining – 7.96 Ha.	Mining – 7.96Ha.	The work is carried out within broken up area.																								
3n	Ore to OB ratio for the pit/mine during the year	0.26 T/m3	nil	1:0 achieved and violation issued.																								
3o	Total area put in use under different heads at the end of year	1) Area under mining- 7.96Ha 2) OB- 8.04Ha 3) Mineral storage- 1.26Ha 4) Roads - 2.66Ha 5) Bund fencing- 0.32 Ha 6) Green belt - 2.46 Ha	1) Area under mining- 7.96Ha 2) OB- 7.97Ha 3) Mineral storage- 1.26Ha 4) Roads - 1.8Ha 5) Bund fencing- 0.32 Ha 6) Green belt - 2.46 Ha	-																								
3p	Production of ROM mineral during last five-year period, as applicable	(in Metric Tonnes) <table border="1"> <tr><td>2019-20</td><td>nil</td></tr> <tr><td>2020-21</td><td>20000</td></tr> <tr><td>2021-22</td><td>20000</td></tr> <tr><td>2022-23</td><td>20000</td></tr> <tr><td>2023-24</td><td>20000</td></tr> <tr><td></td><td></td></tr> </table>	2019-20	nil	2020-21	20000	2021-22	20000	2022-23	20000	2023-24	20000			(in Metric Tonnes) <table border="1"> <tr><td>2019-20</td><td>nil</td></tr> <tr><td>2020-21</td><td>20000</td></tr> <tr><td>2021-22</td><td>20000</td></tr> <tr><td>2022-23</td><td>20000</td></tr> <tr><td>2023-24</td><td>20000</td></tr> <tr><td></td><td></td></tr> </table>	2019-20	nil	2020-21	20000	2021-22	20000	2022-23	20000	2023-24	20000			-
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2023-24	20000																											
3q	General remarks of inspecting officer on method of mining etc.	Mining is carried out by opencast mechanized method with deep hole drilling and blasting proposals.																										

Solid Waste Management-Dumping:

S/ No.	Item	Proposals (Year 2023-24)	Actual work (Year 2023-24)	Remarks
4a	Separate Dumping of topsoil, OB & mineral reject (Rule 32, 33)	Topsoil is stacked in the dump located in non-mineralized zone	Topsoil is stacked in the dump located in non-mineralized zone	
4b	Location of topsoil, OB dumps	N1892248-E695700 N1892183-E695720	N1892248-E695700 N1892183-E695720	
4c	Number of dumps within lease area and outside lease area	2 dumps within lease area No dumps are proposed out side the lease area	2 dumps within lease area	As proposed.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	N1892248-E695700 N1892183-E695720	N1892248-E695700 N1892183-E695720	
4e	Number of active &	2 Dumps are active.	2 Dumps are active.	-

	alive dumps			
4f	Number of dead dumps	nil	nil	-
4g	Number of dumps stabilized	Not applicable	Not applicable	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes	72m of RW and GD proposed and only GD is achieved.
4i	Length of Retaining wall or garland drain all along dumps	Proposed Retaining wall 72 Mtrs. & Garland Drain 72 Mtrs.	Retaining wall-0 Mtrs & Garland Drain 72 Mtrs	Violation issued for not constructing the proposed retaining wall.
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management.	There are 3 Active Waste dump and 1 topsoil dump ranging from 5 to 10m height only and. The proposed Garland drains are constructed and no retaining wall constructed as proposed. Violation is issued.		

Solid Waste Management-Backfilling:

S/ No.	Item	Proposals (Year 2023-24)	Actual work (Year 2023-24)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	nil	Not applicable	
5b	Area under backfilling of mined out area	nil	nil	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal	No top soil was generated.	No part of the Mining Pit is fully exhausted.
5d	Total area fully reclaimed & rehabilitated	nil	Not applicable	-
5e	General remarks of inspecting officer on backfilling, reclamation etc.	No part of the Mining Pit is fully exhausted.		

Progressive Mine Closure Plan:

S/ No.	Item	Proposals (Year 2023-24)	Actual work (Year 2023-24)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2).	Yes	Submitted on time	-
6b	Area available for rehabilitation (ha)	No Proposal	Nil	-
6c	Afforestation done (ha)	1.00 Ha	1.00 Ha	-
6d	No. of saplings planted during the year	2000 Nos.	2000 Nos.	2000 plants within ML and 2000

				plants outside the ML is carried out and reported in the AR 2023-24.
6e	Cumulative no. of plants	No Proposal	5415	
6f	Any other specific method of rehabilitation	No Proposal	-	-
6g	Cost incurred on watch & care during the year	-	Rs.21,60,0000	Appears to be correct.
6h	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D)	NA	NA	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste /tailings	NA	NA	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii) afforestation 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 in the core zone & buffer zone	Environmental monitoring carried out in the core zone & buffer zone.	
6q	General remarks of inspecting officer on PMCP compliance & progressive closure operations.	All the proposed PMCP activities and environment monitoring are carried out except for construction of 72m proposed retaining wall. Violation issued.		

Mineral Conservation:

S/ No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	20000MT	20000MT Stacked within the lease area	The entire production of limestone achieved till date is stacked within the lease area as the Captive Cement plant is not yet established.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	
7c	Different grade of mineral sorted out at mines	NA	NA	-
7d	Any beneficiation process at mines.	No Proposal	Not Applicable	-
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The Limestone deposit grade is above the threshold area and entire production is proposed to be utilized in their upcoming cement plant. Mineral conservation aspect is taken care and beneficiation does not arise.		

Environment:

S/ No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	No top soil was generated for its usage.	Working in the broken-up area.
8b	Concurrent use or storage of topsoil	No proposal	No top soil was generated	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for topsoil and OB	Separate dumps for topsoil and OB	Separate dumps for waste are being maintained.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	No proposals in this plan period	Nil	-
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Proposed plantation:2000 Nos saplings	Achieved plantation:2000 Nos saplings	
8g	Survival rate	-	95%	Appears to be correct.
8h	Water sprinkling on roads to control airborne	Sprinkling on haul roads proposed to	Sprinkling on haul roads is carried out	

	dust	control the air borne dust	regularly to control the dust generated during various mining activities.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in and around the mine area is being maintained by good number of plantations like green belt.		

Compliance of Rule 45

Sl. No.	Item	Comments	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Returns submitted up to Oct-2024 (06.11.2024). Annual Returns is submitted for the year 2023-24(26.06.2024).	

S/ No	Item	Details given in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager :Sri.P.Venkateswararao Geologist :Kumari Jyotirmai mohanty Mining Engineer :Sri.P.Venkateswararao	Mining Engineer was present on the day of inspection and Geologist was reported to be on leave.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	1) Area under mining- 7.96Ha 2) OB- 7.97Ha 3) Mineral storage-1.26Ha 4) Roads - 1.8Ha 5) Bund fencing- 0.32 Ha 6) Green belt - 2.46 Ha		
9d	Scrutiny of Annual return on afforestation	Within ML = 2000Nos.	The reported figures are found to be correct.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	NIL	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	2000MT limestone generated and stored in stock yard		-
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of Production- Rs.525.28/-	Cost of Production per tonne of ore-mineral produced, a royalty amount of Rs. 80 per tonne is included in	

			the cost of production, but dead rent is not factored into the cost of production. There is contradiction in the reported figures between the two sections. SCN issued.	
9h	Scrutiny of Annual return on fixed assets	182.04 crores	Cost of Land acquisition.	
9k	Scrutiny of Annual return on mining machineries	1) Excavator = 1 Nos. 2) Dumpers/Tipper = 3 Nos 3)Water Tanker = 1 Nos. 4) Drilling Machine = 1 Nos.	The reported machineries were found deployed in the mines on the day of inspection.	

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
11(1) of MCDR	29.11.2024	--	45(7) of MCDR	29.11.2024	--

H.M. SHIVAKUMAR
Assistant Controller of Mines
