

1/20860/2023

Review and updation of Mining Plan REPORT

Bangalore regional office

Mine file No : KNT/GLB/LST/48/BNG

Mine code : 38KAR10017

- (i) Name of the Inspecting : S21 ) H M Shivakumar  
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Sri. Dinesh Singh,Chief Manager-Mines, Sri. G Venkate  
Official with  
Designation
- (iv) Date of Inspection : 05/10/2023
- (v) Prev.inspection date : 24/10/2018

PART-I : GENERAL INFORMATION

1. (a) Mine Name : KALBURGI CEMENT LST MINE
- (b) Registration NO. : IBM/13906/2012
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : KARNATAKA  
District : GULBARGA  
Village : Chincholi  
Taluka : Chincholi  
Post office : Kharchikhed  
Pin Code :  
FAX No. : 040-30006955 (F),sudhakar.g  
E-mail : sudhakar.g@vicat.com  
Phone : 040-30006999 (O), 91 966378
- (f) Police Station : Mirian
- (g) First opening date : 21/06/2012
- (h) Weekly day of rest : SUN
2. Address for : M/s Kalburgi Cement Private Limited, ( Formerly  
correspondance Formerly Vicat SagarReliance Majestic,Road No. 1  
Banjara Hills, Hyderabad-500034, Telengana
3. (a) Lease Number : KAR1616
- (b) Lease area : 446.77
- (c) Period of lease : 50
- (d) Date of Expiry : 08/11/2059
4. Mineral worked : LIMESTONE Main

I/20860/2023

## 5. Name and Address of the

Lessee : M/S KALBURGI CEMENT PRIVATE LIMITED  
 CHATRASALA VILLAGE  
 CHINCHOLI TALUK GULBARGA,  
 KARNATAKA GULBARGA  
 KARNATAKA  
 Phone:040-30006999  
 FAX :040-30006955

Owner : ANOOP KUMAR SAXENA, Nominated Owner  
 M/S KALBURGI CEMENT PRIVATE  
 LIMITED CHATRASALA VILLAGE,  
 KHERCHKED P.O CHINCHOLI  
 TALUK, GULBARGA DISTRICT  
 GULBARGA KARNATAKA  
 Phone: 040-30006999  
 FAX : 040-30006955

Agent : SHYAM VAISHNAV  
 Chatrasala (V), Kherchikhed  
 (P), Chincholi (T),  
 Kalaburagi Dist. 585 320.  
 GULBARGA KARNATAKA  
 Phone: +91 9611466008  
 FAX :

## Mining Engineer

Name : G Venkateswarlu, Full Time  
 Qualification : BE Mining  
 Appointment/ : 25/06/2018  
 Termination date

## Geologist

Name : Ch STALIN RICHARDSON, Full Time  
 Qualification : M.Sc. (Geology)  
 Appointment/ : 07/08/2023  
 Termination date

## Manager

Name : DINESH SINGH  
 Qualification : FCC  
 Appointment/ : 27/05/2023  
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	20/04/2009
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	24/04/2014
		Modif.approved Mining Scheme	05/05/2016
		MP modif under 17(3) MCR 2016	18/05/2017
		MP modif under 17(3) MCR 2016	14/05/2018
		MP review under 17(1) MCR 2016	20/11/2018

I/20860/2023

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Proposal	NIL	NIL
1b	Exploration over lease area for geological axis 1 or 2	No Proposal	NIL	Out of 446.77 Ha Mining lease area G1-441.77 Ha G3-5.00 Ha (area occupied by Chatrasala Village accordingly no exploration was proposed)However, the proposal for exploration in the aforesaid area is proposed in the draft RUMP submitted for the period from 2024-25.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal	NIL	Out of 446.77 Ha Mining lease area G1-441.77 Ha G3-5.00 Ha (area occupied by Chatrasala Village accordingly no exploration was proposed)However, the proposal for exploration in the aforesaid area is proposed in the draft RUMP submitted for the period from 2024-25.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	NIL	Out of 446.77 Ha Mining lease area G1-441.77 Ha G3-5.00 Ha (area occupied by Chatrasala Village accordingly no exploration was proposed)However, the proposal for exploration in the aforesaid area is proposed in the draft RUMP submitted for the period from 2024-25.

1/20860/2023

1e	Balance reserve as on 01/04/20	392.01 million tons of limestone as on 01.09.2018. Grade- CaO- 45.49% & MgO- 2% Max for 324.29 million tons and Grade- 35.36% & MgO- 2%(Max) for 67.72 million tons.	378.77 million tons as on 01.04.2023	As per the Annual Returnof Form H-8 for the 2022-23
1f	General remarks of inspecting officers on geology, exploration etc			The entire Mining Lease is mineralized with horizontally bedded cement grade limestone with proved thickness varying from 28-30m, underlain by pink shale and overlain by black cotton soil cover of 0.5-2.0m. Out of 446.77 Ha Mining lease area Exploration carried out in the past in G1 level is 441.77 Ha and G3 level is 5.00 Ha (area occupied by Chatrasala Village. However, the proposal for exploration in the aforesaid area is proposed in the draft RUMP submitted for the period from 2024-25.

---

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 3149N 3210 E2650E 3538	N 3149 N 3204 E 2650 E 3543	Local co-ordinates as per the approved document.

I/20860/2023

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	For top soil/OB - 1 bench For Mineral: 5 benches. Proposed bench height for Mineral-8 meters	Overburden-1 Mineral -5 Bench height of as per proposed height	Separate benches in topsoil/ overburden and mineral as proposed is maintained.
2c	Stripping ratio or ore to OB ratio	1:0.08 (in volume)	1:0.10 (in volume)	OB-123560 tons~102967 Cum Ore-2922927 tons~1169170.8 Cum. As per annual return 2022-23. Violation is issued for not maintaining the proposed Stripping ratio.
2d	Quantity of topsoil generation in m3	16258Cu.m 19509 MT	15445Cu.m 18534 MT	As per annual return 2022-23
2e	Quantity of overburden generation in m3	92128Cu.m 110554 MT	87522Cu.m 105026 MT	As per annual return 2022-23
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The mine is systematically developed with one single pit in operation maintaining separate benches in topsoil/overburden and mineral suitable for the horizontally bedded type of limestone deposit.

---

**Exploitation:**

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit Proposed	One pit working only	NIL

I/20860/2023

3b	Quantity of ROM mineral production proposed	3990020 MT	2781750 MT	Reportedly Less production is due to Plant shutdown & Low market conditions. However, Violation is issued for not achieving the proposed production and not maintaining the proposed stripping ratio.
3c	Recovery of sailable/usable mineral from ROM production	100 % proposed 3990020 MT	100% Utilized 2781750 MT	There is no reject / low grade/sub grade material generated during the RY. All the ROM so produced is feed to crusher and conveyed for manufacturing of cement in the captive plant.
3d	Quantity of mineral reject generation	No Proposal	NIL	NIL
3e	Grade of mineral rejects generation and threshold value declared.	No Proposal	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 segregation from ROM proposed. Only Crushing proposed for sizing of the limestone and also stacker, Reclaimer for blending of relatively high grade and low-grade limestone.	Only Crushing carried out for size reduction.	All the limestone generated of all grade is used after size reduction for cement manufacturing in the captive cement plant. Crusher of 1400 TPH. Feed size < 1.2 m3 Product Size-(-55 mm)

I/20860/2023

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal	NIL	NIL
3j	Provision of drilling and blasting in mineral benches	Deep hole drilling and blasting proposed.	Deep hole drilling and blasting carried out.	Drilling-Sandvik DP 1500 I top hammer dia -152 mm Blasting -Slurry Explosives + ANFO with Nonel Detonators
3k	Provision of mining machineries in mineral benches	i)Drill -152 mm-1 nos. ii)Excavator-6.5 Cum-1no. iii)Dumper-55 tons-4nos. iv)Wheel loader-6.5 Cum-1 no. v)Rock Breaker-1no. vi)Dozer-1nos vii)Water tanker-8KL-1No	i)Drill -152 mm-1 nos. ii)Excavator-6.5 Cum-1no ,1.6 Cum-1 no & Back Hoe- 6.7 Cum-1 no. iii)Dumper-55 tons-4nos& 100 tons- 1no. iv)Wheel loader-6.5 Cum-1 no. vi)Dozer-1 no. vii)Water tanker-8KL-1 No	The reported mining machineries are found deployed during the site inspection.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of benches OB-1.2 to 1.5 Mineral- 4-8m	Height of benches OB-1.2 to 1.5 Mineral- 4-8m maintained	Yes, the height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM
3m	Total area covered under excavation/pits	81.76 Ha till end of plan period i.e., till 31.03.2024.	67.26 Ha. As on 01.04.2023	As per the annual return 2022-2023.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.08 (In Volume)	1:0.10 (In Volume)	OB-123560 tons~102967 Cum Ore-2922927 tons~1169170.8 Cum. As per annual return 2022-23. Violation issued for maintaining the proposed stripping ratio.

1/20860/2023

3o	Total area put in use under different heads at the end of year	At the end of RMP (31.03.2024) Area under Mining 81.76 Storage of Top soil 3.60 Over burden 8.35 Infra structure 0.67 Roads 4.50 Others-PMCP 3.96 Others-Wat Har Pit 3.60 Green Belt 11.14 Limestone Stock 0 Total 122.58	Actual (As on 01.04.2023) Area under Mining 67.26 Storage of Top soil 3.10 Over burden 7.35 Infra structure 0.67 Roads 4.50 Others-PMCP 2.34 Others-Wat Har Pit 3.28 Green Belt 10.97 Limestone Stock 4.00 Total 103.47	Details are furnished as per the annual return submitted for the year 2022-2023.
3p	Production of ROM mineral during the last five year period as applicable	ROM (MT) Stock (MT) 2018-19 45,00,010 0 2019-20 39,90,005 2,10,000 2020-21 39,90,020 2,10,000 2021-22 39,90,090 2,10,000 2022-23 39,90,020 2,10,000	(MT) Stock (MT) 2018-19 31,58,169 0 2019-20 30,07,297 0 2020-21 29,69,357 85,304 2021-22 31,99,402 1,95,820 2022-23 27,81,750 1,41,177	ROM Reportedly Less production for the year 2022-23 due to Plant shutdown and low market conditions.
3q	General remarks of inspecting officers on method of mining etc.			The open pit mechanized method is adopted and mine is systematically developed as a single pit maintaining separate benches in topsoil/over burden and mineral suitable for the horizontally bedded type of limestone deposit.



I/20860/2023

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Top soil-1 No. OB- 2 nos.- Dump-D& Dump-4	Top soil-1 No. OB-2 nos.- Dump-D& Dump-4	Yes. Separate dumping of topsoil, OB is done.
4b	Location of topsoil, OB and mineral reject dumps	Top soil N 2306 E2982 N 2362 E 3214 OB Dump-D N 2933 E 4049 N 3134 E 4163 OB Dump-4 N 2327 E 2352 N 2406 E 2501	Top soil dumping & OB Soil Dumping carried out at the earmarked location within the proposed extent as per the proposal.	No mineral reject generation. Local co-ordinates as per the approved mining plan.
4c	Number of dumps within lease area and outside of lease area	1 top soil dump proposed and 4 OB Soil dump within ML. (No dump outside lease area)	1Top soil dump and 4 OB Soil dump within ML. (No dump outside lease area).	Top soil dump and OB Soil dump- A,B,1&2
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed within UPL	All dumps are within UPL	All the dumps are located within the UPL with proposals to utilize for back filling of mined out pits in future.
4e	Number of active and alive dumps.	OB Dumps-2 Nos. Dump D Dump-4 Topsoil Dump-1no.	OB Dumps- Dump D Dump-4 Topsoil Dump-01 No.	NIL
4f	Number of dead dumps.	No proposal	NIL	NIL
4g	Number of dumps established.	No proposal	NIL	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall proposed all along dumps	Retaining wall with Garland drains constructed all along the dumps are provided as per approved document.	NIL
4i	Length of Retaining wall or garland drain all along dumps	Retaining Wall Length-407 mtr DumpD-259Mtr Dump4-148Mtr	Retaining Wall Length-407 mtr DumpD-258Mtr Dump4-149Mtr	As reported the RW and GD are constructed as proposed.
4j	Number of settling ponds	No Proposal	NIL	NIL

I/20860/2023

4k	Specific comments of inspecting officer on waste dump management			All the dumps are located within the UPL with proposals to utilize for back filling of mined out pits in future. The dumps are systematically maintained with all the proposed engineering structures & plantation for their stability as proposed.
----	--	--	--	---

---

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	No part of the Mine pit is matured or fully extracted for starting of backfilling.
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)	No Proposal	NIL	NIL
5d	Total area fully reclaimed and rehabilitated	No Proposal	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No part of the Mine pit is matured or fully extracted of mineral for starting of backfilling, reclamation etc.,

---

Progressive Mine Clousre Plan:

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

I/20860/2023

6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	To be submitted before 1st of July every year.	Annual PMCP Report submitted for the year 2022-2023 On 28th June, 2023	NIL
6b	Area available for rehabilitation (ha) .	0.85 ha on OB soil Dumps proposed	0.85 ha on OB soil Dumps as proposed	NIL
6c	afforestation done (ha).	0.85 ha on OB soil Dumps proposed	0.85 ha on OB soil Dumps as proposed	
6d	No. of saplings planted during the year	850 nos. of saplings proposed on OB soil dump within ML and 4000 nos. outside ML are	1410 nos. of saplings planted within ML on OB soil dump and 2000 nos. outside ML area	Details as furnished in the Annual Return for the year 2022-23 appears to be in order.
6e	Cumulative no .of plants	2620 Nos upto 31.03.2024 of the plan period	28,346 nos. within ML Area since inception of the mine	Appears to be correct.
6f	Any other method of rehabilitation	No Proposals	NIL	
6g	Cost incurred on watch and care during the year	Rs 50,000/- proposed for dump management	Cost incurred on watch & care during the year is Rs. 6,63,250/-	Appears to be correct.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( L x B x D	No Proposal	NIL	NIL
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

I/20860/2023

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	0.85 ha on OB soil Dumps proposed with 850 nos. of saplings	0.85 ha on OB soil Dumps have been afforested with 1410 no of saplings.	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No Proposal	NIL	NIL
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 proposed.	Env. monitoring carried out byThejus Enterprises, Banglore. Air quality, Surface Water, Ground water, Noise level, Dust & soil monitoring carried out. All parameters are within Limits	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			All the proposed PMCP activities and Environmental monitoring work are satisfactorily carried out.

---

**Mineral Conservation:**


---

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

---

1/20860/2023

7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM Mineral no sorting only crushing and size reduction	ROM Mineral no sorting only crushing and size reduction by Double rotor impact hammer crusher capacity of 1400 TPH	All the limestone generated of all grade is used after size reduction for cement manufacturing in the captive cement plant. Crusher of 1400 TPH. Feed size? 1.2 m3 Product Size-(-55mm)
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No grade wise Mineral sorting proposed. Only Mechanized crushing Proposed.	Mechanized crushing carried out as per the proposal.	No grade-wise mineral sorting is done except for crushing to the required size of Captive Cement Plant.
7c	Different grade of mineral sorted out at mines.	No Sorting in ROM mineral	No Sorting in ROM mineral	NIL
7d	Any beneficiation process at mines	No Proposal	NIL	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The entire mineral/ROM produced is utilized in the captive Cement plant thereby taking care of Mineral Conservation aspect.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal of soil and storage proposed.	Top soil removed separately and dumped in proposed top soil dump location. Utilized Quantity - 300 MT	Required quantity Top soil used for plantation and the rest is stacked for utilization as and when required.

1/20860/2023

8b	Concurrent use or storage of topsoil	Storage of topsoil proposed	Topsoil stored at the earmarked location and used for plantation as and when required.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump proposed for OB soil.	Separate dump proposed for OB soil.	Dump 4&D for OB soil dumping There is no reject generation.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	Nil	No part of the Mine pit is matured or fully extracted of mineral for starting of backfilling with waste generated.
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)	2620 Nos of saplings with in the ML Area.	28,346 nos. within ML Area since inception of the mine.	Reported Numbers of Cumulative 199468 sapling plantation & 64.42 Ha appears to be correct.
8g	Survival rate	WML 90 % OML 92 %	WML 95 % OML 93 %	As per information furnished in the annual return for the year 2022-23.
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads proposed.	Water sprinkling carried out as per the proposal	8KL capacity water tanker with jet spray system for arrest the dust suppression in the pit and A permanent water sprinkling system provided all along haul road from Pit to Crusher

I/20860/2023

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The Aesthetic beauty in and around the mine is good and satisfactory with green belt development as proposed.
----	--	---

---

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 RCOM,Bangalore for the month of August, 2023 on 09th September, 2023 ***** A.R. Submitted up to RCOM,Bangalore for the Year 2022-23 on 28th June, 2023		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Mr G Venkateswrlu  Geologist: Mr.Nagur Meera Saheb Shaik  Manager: MrDinesh Singh	The reported officials were present on the day of inspection.	

1/20860/2023

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under Mining 67.26 Storage of Topsoil 3.10 Over burden 7.35 Infra structure 0.67 Roads 4.50 Others-PMCP 2.34 Others-Wat Har Pit 3.28 Green Belt 10.97 Limestone Stock 4.00 Total 103.47	In Order.	
9d	Scrutiny of Annual return on afforestation	WML: 1,410Nos @ 90% survival OML: 2,000 Nos @ 85% survival	Appears to be correct.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM O/s- 9,75,351 tons ROM Production- 2781750 tons ROM C/s- 8,34,174 tons Graded ore  Cement Grade O/s- 0 tons Production- 29,22,927 tons Dispatched- 29,22,927 tons C/s- 0 tons.	In order.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Total Production Cost:Rs.211.91 /-	The depreciation is not correctly accounted for arriving at the cost of production.	Violation issued.



1/20860/2023

9h	Scrutiny of Annual return on fixed assets	Rs.121,81,22,0 In Order. 00/- Including crusher Machinery, and Land.	
9k	Scrutiny of Annual return on mining machineries	Excavator-6.5 Cu.m 1 No. Back Hoe- 6.7 Cu.m 1 No. Wheel loader- 6.5 Cu.m 1 No. Exc/Rock Breaker 2.1 1 No. Dumper- 55 Ton 4 No. Dumper -100 ton 1 No. Dozer-320 HP 1 No. Compactor 10 Ton 1 No. Rock Drill- 152 mm 2 No. Explosive Van- 10 T 1 No. Water Tanker - 8KL 1 No. Crusher 1400 TPH 1 No. Pumps-Ele 3 No. Jeep 1 No. Mobile Service Van 1 No.	The reported machineries were found deployed on the day of inspection.

---

I/20860/2023

**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
MCDR17 Rule 11(1)	19/10/2023				
MCDR17 Rule 45(7)(a)	19/10/2023				

**Date :****(H M Shivakumar)**

Indian Bureau of Mines