### INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

### MCDR inspection REPORT

## Bangalore regional office

	Mine :	file No : KNT/GLB/LST	. / 48	/BNG Mine code : 38KAR10017
	(i)	Name of the Inspecting Officer and ID No.	g :	SQ06 ) SURESH PRASAD
	(ii)	Designation	:	Regional Controller Mines
	(iii)	Accompaning mine Official with Designation	:	G. Sudhakar, DGM-Mines and Nagur Meera Saheb Sheik, G
	(iv)	Date of Inspection	:	29/12/2022
	(v)	Prev.inspection date	:	03/08/2021
		PZ	ART	I : GENERAL INFORMATION
1.	(a)	Mine Name	:	KALBURGI CEMENT LST MINE
	(b)	Registration NO.	:	IBM/13906/2012
	(c) (d) (e) (f) (g) (h)	Category Type of Working Postal address State District Village Taluka Post office Pin Code FAX No. E-mail Phone Police Station First opening date Weekly day of rest		A Fully Mechanised Opencast KARNATAKA GULBARGA Chincholi Chincholi Kharchikhed 040-30006955 (F),sudhakar. sudhakar.g@vicat.com 040-30006999 (O), 91 96637; Mirian 21/06/2012 SUN
2.	Addre corre	ess for espondance	:	M/s Kalburgi Cement Private Limited, ( Formerly Formerly Vicat SagarReliance Majestic,Road No. 1 Banjara Hills, Hyderabad-500034, Telengana
3.	(a) (b) (c) (d)	Lease Number Lease area Period of lease Date of Expiry	:	KAR1616 446.77 20 08/11/2029
4.	Mine	ral worked	:	LIMESTONE Main

5.	Name and Address of	the	
	Lessee	:	M/S KALBURGI CEMENT PRIVATE LIMITED
			CHATRASALA VILLAGE
			CHINCHOLI IALUK 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 : AMIT MEHTA KALBURGI CEMENT PVT LTD, CHATRASALA KHERCHIKHED, CHINCHOLI TQ, KALBURGI GULBARGA KARNATAKA Phone: 8688826186 FAX :

:	G Venkateswarlu,Full	Time
:	BE Mining	
: e	21/06/2018	
	: : e	: G Venkateswarlu,Full : BE Mining : 21/06/2018 e

Geologist		
Name	:	K.NAGARAJ RAO,Full Time
Qualification	:	M.SC, (MINERAL EXPLORATION)
Appointment/	:	14/02/2011

Manager

Termination date

Name	:	Sh.G Sudhakar
Qualification	:	BE Mining
Appointment/	:	21/06/2018
Termination da	te	

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

#### 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)
lc	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	No proposal	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)
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	No proposal.	No proposal
le	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.	381.55 million tons as on 01.04.2022	As per the Annual Returnof Form H-8 for the 2021-22

1f General remarks of inspecting officers on geology, exploration etc

#### Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 3075 E 2652 N 3148 E 3550	Development carried out within the proposed extent.	Development carried out within the proposed grid intervals.
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 8 m maintained for mineral	Separate benches are formed as proposed.
2c	Stripping ratio or ore to OB ratio	1:0.08 (In volume)	1:0.07 (In volume)	For the Year 2021- 22, it was proposed to produce 39,90,090 Tonnes of Limestone with Development quantity of 1,34,057 tonnes of waste. However only 31,99,402 Tonnes of limestone Production (-) 20% with 95,645 tonnes of waste (-) 29% Development is achieved thereby deviating from the proposed quantities. Violation issued.

99% of the Mining Lease area has been explored under G1 level of exploration. 5 Ha is occupied by Chatrasala Village. During inspection it was suggested to explore the possibilities for exploration covering this village also.

2d	Quantity of topsoil generation in m3	19714 Cu.m 23657 MT	14065 Cu.m 16878 MT	As per annual return 2021-22
2e	Quantity of overburden generation in m3	111714 Cu.m 134057 MT	79704 Cu.m 95645 MT	As per annual return 2021-22
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development carried out within the proposed grid intervals and formation of separate benches in topsoil, overburden & mineral as proposed suitable to the bedded type of deposit.

# Exploitation:

Sl.No.	Item	Propasals	Actual w	vork	Remarks
3a	Number of pit proposed for production	One pit Proposed	One pit w	working only .	As per proposal.
3b	Quantity of ROM mineral production proposed	3990090 MT	3199402 M	МТ .	For the Year 2021- 22, it was proposed to produce 39,90,090 Tonnes of Limestone with Development quantity of 1,34,057 tonnes of waste. However only 31,99,402 Tonnes of limestone Production (-) 20% with 95,645 tonnes of waste (-) 29% Development is achieved thereby deviating from the proposed quantities reportedly due to Plant shutdown & Low market demand.

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3c Recovery of 100 % proposed 100% Utilized 3199402 MT There is no reject sailable/usable 3990020 MT / low grade/sub mineral from ROM grade material production generated. All the ROM so produced is feed to crusher and conveyed for manufacturing of cement. 3d Quantity of No Proposal NIL NIL mineral reject generation Nil. Nil. 3e Grade of mineral No Proposal. rejects generation and threshold value declared. 3f Quantity of sub No Proposal. Nil. Nil. grade mineral generation. Grade of sub Nil. 3g No Proposal. Nil. grade mineral generation Manual / No segregation Only Crushing carried All the limestone Зh Mechanised from ROM out for size reduction. (ROM) method adopted proposed. Only generated of Crushing for segregating different grade is used from ROM proposed for sizing of the after size limestone and reduction for also, stacker, cement Reclaimer for manufacturing in blending of the captive cement Plant. relatively high grade and No segregation of low-grade ROM is practiced. limestone. Any analysis or No Proposal NIL 3i NIL beneficiation study proposed and carried out for sub grade mineral and rejects. Зj Provision of Deep hole Deep hole drilling and Drilling is drilling and drilling and blasting carried out. carried out with blasting in blasting Sandvik mineral benches proposed. DP 1500 I top hammer dia -152 mm and Blasting id carried out using Slurry Explosives + ANFO with Nonel

Detonators.

3k	Provision of mining machineries in mineral benches	<pre>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</pre>	<pre>i)Drill -152 mm-1 nos. ii)Excavator-6.5 Cum-1no ,1.6 Cum-1 no &amp; Back Hoe- 6.7 Cum-1 no. iii)Dumper-55 tons-4nos&amp; 100 tons- 1no. iv)Wheel loader-6.5 Cum- 1 no. vi)Dozer-1no. vii)Water tanker-8KL-1 No</pre>	As per the proposal.
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of benches in Mineral-8 m	Height of bench in OB- 1.5 m Height of bench in Mineral- 8m maintained	As per the proposal bench height and width is maintained. In Mineral the bench height is 8 meters and in OB is 1.2 to 1.5 meters.
3m	Total area covered under excavation/pits	81.76 Ha till end of plan period i.e., till 31.03.2024.	62.14 Ha. As on 01.04.2022	As per the annual return 2021-22
3n	Ore to OB ratio for the pit/mine during the year.	1:0.08 (In Volume)	1:0.07 (In Volume)	A small variation from the proposal due to less production and Development. OB- 112523 tons~93769.17 Cum.,

Cum., Ore-3199402 tons~1279760.8 Cum., As per annual return 2021-22

30	Total area put in use under different heads at the end of year	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 At the end of RMP(31.03.2024).	Area under Mining 62.14 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 2.62 Green Belt 10.12 Limestone Stock 4.40 Total 97.24	Details are furnished as per the annual return submitted for the year 2021-22.
3p	Production of ROM mineral during the last five year period as applicable	2017-18 30,00,000 2018-19 45,00,010 2019-20 39,90,005 2020-21 39,90,020 2021-22 39,90,090 ROM (MT)	2017-18 30,98,615 2018-19 31,58,169 2019-20 30,07,297 2020-21 29,69,357 2021-22 31,99,402 ROM (MT)	Less production for the year 2021- 22reportedly due to Plant shutdown and low market conditions.
3q	General remarks of inspecting officers on method of mining etc.			Mining method is by open pit mechanized means with deep hole drilling, blasting and shovel & dumper combination as proposed.

Solid Waste Management - Dumping:

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-C& Dump-3	. Top soil-1 No. OB-2 nos Dump-C& 3 Dump-3	As per the proposals.

No mineral reject 4b Location of Top soil dumping & OB Top soil topsoil, OB and N 2306 E2982 Soil Dumping carried out generation. Local mineral reject N 2362 E 3214 at the earmarked co-ordinates as dumps location within the per the approved OB Dump-C proposed extent as per mining plan. N 2747 E 3996 the proposal N 2943 E 4091 OB Dump-3 N 2264 E 2491 N 2352 E 2625 Number of dumps 4c 1 top soil 1Top soil dump and 4 Top soil dump and within lease OB Soil dumpwithin ML. OB Soil dump-A, dump proposed and 4 OB Soil area and outside (No dump outside lease B,1&2 as proposed. of lease area dump within area). ML. (No dump outside lease area) 4d Location of Since the entire Proposed All dumps are within UPL within UPL dumps w.r.t. lease area is ultimate pit mineralized, limit (Rule 16) temporary dumping is proposed for rehandling for backfilling of mined out pits in future. Number of active OB Dumps-2 4e OB Dumps-As per the and alive dumps. Nos. proposal. Dump C Dump-3 Dump C Dump-3 Topsoil Dump-Topsoil Dump-01 No. lno. 4f Number of dead NIL No proposal NIL dumps. Number of dumps NIL 4g No proposal established. 4h Whether Retaining wall Retaining wall with All the Retaining wall proposed all Garland drains all along engineering or garland drain along dumps the proposed dumps are structures in all along dumps place along the provided as per approved are there. document. existing dumps as proposed. 4i Length of Retaining Wall Retaining Wall As per the Retaining wall Length-407 mtr Length-407 mtr proposal. or garland drain all along dumps DumpC-195Mtr DumpC-200Mtr Dump3-148Mtr Dump3-148Mtr 4j Number of NIL NIL No Proposal settling ponds

4k Specific comments of inspecting officer on waste dump management All the engineering structures in place and along the existing dumps along with plantation carried out as proposed for stabilization of the dumps.

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 for backfilling. Mineral exists at depth.
5b	Area under backfilling of mined out area	No Proposal	NIL	No part of the mine pit is matured for backfilling. Mineral exists at depth.
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 for backfilling. Mineral exists at depth.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks

бa Whether Annual To be Verified and found Annual PMCP Report report on PMCP submitted submitted for the year that Annual PMCP submitted on before 1stof 2021-22 On 25thJune, Report submitted time and July every 2022 within the correctly. Rule prescribed time year. 23 E(2). limit. 6b Area available 0.82 ha on OB 0.82 ha on OB NTT. soil Dumps as proposed for soil Dumps rehabilitation proposed (ha) . бc afforestation 0.82 ha on OB 0.82 ha on OB soil Dumps Afforestation done (ha). soil Dumps carried out in as proposed. excess of the proposed. proposed quantity. 6d No. of saplings 820 nos. of 1870 nos. of saplings Details as planted during planted within ML on OB furnished in the saplings the year proposed on OB soil dump and 4000 nos. Annual Return for soil dump outside ML area. the year 2021-22 within ML and and verified in 4000 nos. the field. outside ML area. 6e Cumulative no 2620 Nos upto 25,936 nos. within ML Plantation carried 31.03.2022 of Area since inception of out is till date .of plants the plan the mine. is very good. period. бf Any other method No Proposals Nil of rehabilitation бg Cost incurred on Rs 50,000/-Cost incurred on watch & NIL watch and care proposed for care during the year is during the year dump Rs. 3,69,567/management. 6h Compliance on No Proposal NIL No part of the reclamation and mine pit is rehabilitation matured for by backfilling backfilling. (i) Voids Mineral exists at available for depth. backfilling ( Lx ВхD 6i Compliance on No Proposal NIL No part of the reclamation and mine pit is rehabilitation matured for backfilling. by backfilling (ii) Voids Mineral exists at filled by waste depth. / tailings

бj Compliance on No Proposal NIL NIL reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area 6k Compliance on No Proposal NIL NIL reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir 61 Compliance on No Proposal Nil Nil reclamation and rehabilitation by backfilling (v)any other specific means. бm Compliance of 0.82 ha on OB 0.82 ha on OB soil Dumps NIL rehabilitation soil Dumps have been afforested of waste land proposed with with 1870 no of within lease 820 nos. of saplings. (i)afforestation saplings Compliance of бn No Proposal Nil rehabilitation of waste land within lease (ii)Area rehabilitation (ha) 60 Compliance of No Proposal Nil rehabilitation of waste land within lease (iii)Method of rehabilitation Compliance of Environmental Environmental monitoring бp environmental monitoring carried out with Global monitoring (core proposed. Environment & Mining zone and buffer Serves, Hosepet. Air zone) 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. PMCP compliance & progressive closure operations are carried out as per the proposals.

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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.
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 Mineralsorting Proposed as the entire ROM is blended and used in cement production.
7c	Different grade of mineral sorted out at mines.	No Sorting in ROM mineral	No Sorting in ROM mineral	No grade wise Mineralsorting Proposed as the entire ROM is blended and used in cement production.
7d	Any beneficiation process at mines	No Proposal	NIL	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The entire ROM is blended and used in cement production thereby taking care of Mineral Conservation aspect. No beneficiation is required in the mineral produced.

Environment:

8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal of Top soil and storage proposed.	Top soil removed separately and dumped in proposed top soil dump location.	Top soil used for plantation and part is stacked for utilization in future.
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.	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 dumpcarried out for OB soil.	Dump 3&C 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 for backfilling or restoration of land to its original use. Mineral exists at depth.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	Nil	No part of the mine pit is matured for backfilling or restoration of land to its original use. Mineral exists at depth.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2620 Nos of saplings with in the ML Area.	25,936 nos. within ML Area since inception of the mine.	Cumulative 25,936 Nos of saplingscovering over 64.42 Ha.
8g	Survival rate	90% (WML) & 92% (OML)	95%(WML) & 93%(OML)	As per information furnished in the annual return for the year 2021-22.
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

8i General remarks of inspecting officer on aesthetic beauty in and around mines area Aesthetics in and around the mine is very good and Laudable.

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, 2022 on 06th September, 2022 ***** A.R. Submitted up to RCOM,Bangalore for the Year 2021-22 on 25th June, 2022	
9Ъ	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Mr G Venkateswrlu Geologist: Mr. Nagur Meera Saheb Manager: Mr Gundla Sudhakar	The designated officials were present during the inspection.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under Mining 62.14 Storage of Topsoil 3.10 Over burden 7.35 Infra structure 0.67 Roads 4.50 Others-PMCP 2.34 Others-Wat Har Pit 2.62 Green Belt 10.12 Limestone Stock 4.40 Total 97.24	As per the approved proposals.	

# Compliance of Rule 45:

9d Scrutiny of WML: Claimed plantation Annual return on 1,870 Nos @ carried out during the 95% survival afforestation RY appears to be OML: correct. 4,000 Nos @ 93% survival 9e Scrutiny of NIL No mineral rejects Annual return on proposed or produced in mineral reject the mine. generation (Grade and quantity) 9f Scrutiny of ROM 0/s-Appears to be correct. Annual return on 11,71,171 tons ROM stock and/or ROM graded ore Production-31,99,402 tons ROM C/s-9,75,351 tons Graded ore Cement Grade 0/s-0 tons Production-33,95,222 tons Dispatched-33,95,222 tons C/s-0 tons. 9g Scrutiny of Total Appears to be correct. Annual return on Production sale value, Ex. Cost: Mine price and Rs.187.33/production cost 9h Scrutiny of Rs.123,38,73,0 Appears to be correct. Annual return on 00/fixed assets Including Plant, Machinery, Land and Residential

УК	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 1 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.	Appears		De	correct.	
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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)	10/02/2023	21/03/2023				
MCDR17 Rule 45(7)(a	; 10/02/2023	21/03/2023				

Date :

(SURESH PRASAD)

Indian Bureau of Mines