

1/20861/2023

Review and updation of Mining Plan REPORT

Bangalore regional office

Mine file No : KNT/GLB/LST-53/BNG

Mine code : 38KAR10020

- (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. J. Pradee  
Official with  
Designation
- (iv) Date of Inspection : 06/10/2023
- (v) Prev.inspection date : 25/10/2018

PART-I : GENERAL INFORMATION

1. (a) Mine Name : KHARCHIKHED LIMESTONE MIN
- (b) Registration NO. : IBM/13906/2012
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : KARNATAKA  
District : GULBARGA  
Village : KHARCHIKHED  
Taluka : CHINCHOLI  
Post office : MIRIYAN  
Pin Code :  
FAX No. : 040-30006955  
E-mail : kalburgicementmines@gmail.  
Phone : 040-30006999
- (f) Police Station : MIRIYAN
- (g) First opening date : 21/06/2016
- (h) Weekly day of rest : SUN
2. Address for : KHARCHIKHED VILLAGE  
correspondance : CHINCHOLI TALUK  
KALABURAGI DISTRICT, KARNATAKA
3. (a) Lease Number :  
(b) Lease area :  
(c) Period of lease :  
(d) Date of Expiry :
4. Mineral worked : LIMESTONE Main

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## 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 : JADALA PRADEEP KUMAR, Full Time  
 Qualification : B. Tech-Mining,  
 Appointment/ : 06/11/2021  
 Termination date

## Geologist

Name : OBULESU, Full Time  
 Qualification : M.Sc GEOLOGY  
 Appointment/ : 07/08/2023  
 Termination date

## Manager

Name : J. PRADEEP KUMAR  
 Qualification : B.E.in (Mining), FCC.  
 Appointment/ : 29/10/2018  
 Termination date

6. Date of approval of Mining : Fresh under rule 22 MCR1960 08/02/2012  
 Plan/Scheme of Mining : MP review under 17(1) MCR 2016 28/11/2018

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No backlog of previous proposals.	NIL	NIL
1b	Exploration over lease area for geological axis 1 or 2	No Proposal	NIL	The entire lease area of 465.39 has been explored by drilling 132 core boreholes at grid interval of 200mx200m in the past.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal	NIL	The entire lease area of 465.39 has been explored by drilling 132 core boreholes at grid interval of 200mx200m in the past.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	NIL	The entire lease area of 465.39 has been explored by drilling 132 core boreholes at grid interval of 200mx200m in the past.
1e	Balance reserve as on 01/04/20	366.61 million tons as on 01.11.2018.	366.28 million tons as on 01.04.2023	As per the Annual Return of Form H-8 for the 2022-23

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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. The entire lease area of 465.39 has been explored under G-1 level by drilling 132 core boreholes at grid interval of 200mx200m.
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## Development :

Sl.No.	Item	Proposals	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.	Local co-ordinates as per the approved document.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed in Overburden and Mineral.	Separate benches maintained in OB and Mineral	Separate benches in topsoil/ overburden and mineral as proposed is maintained. BC Soil -01 & Mineral - 01
2c	Stripping ratio or ore to OB ratio	1:0.16 (in volume)	1:0.12 (in volume)	OB-20512 tons~17093 Cum Ore-169441 tons~67,776.4 Cum. As per annual return 2022-23
2d	Quantity of topsoil generation in m3	2745 Cu.m 3294 MT	2553 Cu.m 3064 MT	As per annual return 2022-23
2e	Quantity of overburden generation in m3	15557 Cu.m 18668 MT	14540 Cu.m 17448 MT	As per annual return 2022-23

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2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	The mine is developed with single pit in operation maintaining separate benches in topsoil/over burden and mineral suitable for the horizontally bedded type of limestone deposit.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit Proposed	One pit working only	NIL
3b	Quantity of ROM mineral production proposed	199900 MT	169441 MT	86% of the proposed production achieved.
3c	Recovery of sailable/usable mineral from ROM production	100 % proposed 198940MT	100% Utilized 169441 MT	There is no reject / Low grade/sub grade material generated. All the ROM so produced is feed to crusher located in the other ML of the lessee and conveyed for manufacturing of cement.
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

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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.	ROM from the mine is directly transported to crusher located in the other ML of the lessee.	ROM from the mine is directly transported to crusher located in the other ML of the lessee.
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 by 115mm dia and blasting by 83mm slurry in conjunction with detonators.
3k	Provision of mining machineries in mineral benches	Excavator-1 (2.2 cu.m) Tipper - 4 (12.5 cu.m) Drill - 1 (115mm dia)	Excavator-1 (2.2 cu.m) Tipper-5 (18 cu.m) Drill-1 (115mm dia)	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 OBbench-2m Height of Mineral Bench: 6-8m	Height of bench in OB- 1.5 m Height of bench in Mineral- 6-8m maintained as per proposal	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	3.89 Ha till end of plan period i.e., till 31.03.2024.	3.5 Ha. As on 01.04.2023	As per the annual return 2022-2023

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3n	Ore to OB ratio for the pit/mine during the year.	1:0.08 (In Volume)	1:0.12 (In Volume)	OB-20512 tons~17093 Cum Ore-169441 tons~67,776.4 Cum. As per annual return 2022-23 **% of production quantity and 93% of the proposed development quantity achieved.
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 3.89 Storage of Top soil 0.55 Over burden 1.32 Roads 2.00 Others-PMCP 0.55 Green Belt 1.25 Total 9.56	Actual (as on 01.04.2023) Area under Mining 3.50 Storage of Top soil 0.50 Over burden 1.28 Roads 1.50 Others-PMCP 0.36 Green Belt 0.36 Total 7.50	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	ROM (MT) 2018-19 1,00,515 2019-20 1,05,040 2020-21 1,04,760 2021-22 1,04,720 2022-23 1,99,900	ROM (MT) 2018-19 45,450 2019-20 54,651 2020-21 33,945 2021-22 36,901 2022-23 1,69,441	Reportedly Less production for the year 2022-23 due to Plant shutdown, Heavy Rains 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 developed as a single pit maintaining separate benches in topsoil/over burden and mineral suitable for the horizontally bedded type of limestone deposit.

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 for top soil and OB along River Safety zone (RSZ) towards East.	OB (BC Soil) is dumping along RSZ as safety bund towards East and temporary dumping of Topsoil.	Yes. Separate dumping of topsoil, OB is done.
4b	Location of topsoil, OB and mineral reject dumps	OB Dump N 686 E 2059 N 691 E 2101  Top Soil Dump N 728 E 2052 N 733 E 2094	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	01 dump within ML	01 dump within ML	NIL
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.	01 No	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.	Proposed retaining wall of 212 mtrs along the river safety zone and construction of garland drain around pit and dump	Retaining wall constructed and a garland drain made around pit and dump.	NIL
4i	Length of Retaining wall or garland drain all along dumps	212m for entire plan period.	42 mtrs retaining wall constructed. a garland drain made around pit and dump covering an area of 0.08 Hect.	As reported the RW and GD are constructed as proposed.
4j	Number of settling ponds	No Proposal	NIL	NIL



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4k	Specific comments of inspecting officer on waste dump management			One single dump is 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.
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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	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.,

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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).	To be submitted before 1st of July every year.	Annual PMCP Report submitted for the year 2022-23 On 28th June, 2023	NIL
6b	Area available for rehabilitation (ha) .	0.25 ha on OB soil Dumps proposed	0.25 ha on OB soil Dumps as proposed	NIL
6c	afforestation done (ha).	0.25 ha on OB soil Dumps proposed	0.25 ha on OB soil Dumps as proposed	NIL
6d	No. of saplings planted during the year	250 nos. of saplings proposed on OB soil dump within ML and 4000 nos. outside ML are	250 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	750 Nos upto 31.03.2022 of the plan period	1,000 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 20,000/- proposed for dump management	Cost incurred on watch & care during the year as per proposal.	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

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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	0.25 ha on OB soil Dumps proposed with 820 nos. of saplings	0.25 ha on OB soil Dumps have been afforested with 250 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 by Thejus Enterprises, Bangalore. 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.

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**Mineral Conservation:**


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Sl.No.	Item	Propasals	Actual work	Remarks
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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.	ROM from the mine is directly transported to crusher located in the other ML of the lessee.	ROM from the mine is directly transported to crusher located in the other ML of the lessee.
7c	Different grade of mineral sorted out at mines.	No Sorting in ROM mineral	No Sorting in ROM mineral	No grade-wise mineral sorting is done. ROM from the mine is directly transported to crusher located in the other ML of the lessee.
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.

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 Environment :
 

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Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	The generation of 2745 cu.m top soil proposed for the year 2022-23.	2,553 cu.m top soil has been generated for the year 2022-23 and stacked separately at the earmarked location to be used for Plantation.	Required quantity Top soil used for plantation and the rest is stacked for utilization as and when required.
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.	Separate Dump 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	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	250 Nos of saplings with in the ML Area.	1,000 nos. within ML area since inception of the mine.	Reported Numbers of Cumulative saplings within the ML and Outside Mining Lease area of plantation is 199468 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.

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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			The Aesthetic beauty in and around the mine is good and satisfactory with green belt development as proposed.

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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, 2022 on 06th September, 2022 ***** A.R. Submitted up to RCOM,Bangalore for the Year 2021-22 on 25th June, 2022		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Mr J. Pradeep Kumar  Geologist: Mr. Ch. Stalin Richardson  Manager: Mr J. Pradeep Kumar	The reported officials were present on the day of inspection.	

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under Mining 3.50 Storage of Top soil 0.50 Over burden 1.28 Roads 1.50 Others-PMCP 0.36 Green Belt 0.36 Total 7.50	In Order.
9d	Scrutiny of Annual return on afforestation	WML: 250Nos @ 95% survivals OML: 2,000 Nos @ 93% survivals	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- Nil ROM Production- 1,69,441 tons ROM C/s- Nil  Graded ore Cement Grade  O/s- 0 tons Production- 1,69,441 tons Dispatched- 1,69,441 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.223.23 /-	
9h	Scrutiny of Annual return on fixed assets	Rs.61,48,04,00 0/- For Land	In Order.

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9k	Scrutiny of Annual return on mining machineries	Excavator-2.2 Cu.m 1 No. Tippers- 25 Ton 5 No. Air Compressor 1 No. Rock Drill- 115 mm 1 No. Water Tanker - 8KL 1 No.	The reported machineries were found deployed on the day of inspection.
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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

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

Indian Bureau of Mines