

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

MCDR inspection REPORT

Bangalore regional office

Mine file No : KNT/GLB/LST/50/BNG

Mine code : 38KAR10016

- (i) Name of the Inspecting : **S19**) **SANDEEP KUMAR SINGH**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sri.V.Balasubramani-Manager, Sri.V.Rami Reddy-Mining
Official with
Designation
- (iv) Date of Inspection : 25/02/2022
- (v) Prev.inspection date : 11/09/2020

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KALLUR LIMESTONE MINE ML**
- (b) **Registration NO.** : **IBM/170/2011**
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : KARNATAKA
- District : GULBARGA
- Village : KALLUR
- Taluka : CHINCHOLI
- Post office : KALLUR
- Pin Code : 585305
- FAX No. : 08475-295608, 9480827511
- E-mail : subramani.v@chettinadcement
- Phone : 044-42988652 (O) 044-42988
- (f) **Police Station** : Miryan
- (g) **First opening date** : 07/03/2012
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : KALLUR VILLAGE, GARAGAPALLI POST,
CHANDAPUR, CHINCHOLI TALUK
GULBARGA - 585305
3. (a) **Lease Number** : KAR1677
- (b) **Lease area** : 423.11
- (c) **Period of lease** : 30
- (d) **Date of Expiry** : 24/09/2040
4. **Mineral worked** : LIMESTONE Main

5. Name and Address of the

Lessee : CHETTINAD CEMENT CORPORATION LIMITED
 KALLUR VILLAGE, GARAGAPALLI
 POST CHANDAPUR, CHINCHOLI
 TALUK GULBARGA - 585305
 GULBARGA KARNATAKA
 Phone:
 FAX :

Owner : L.MUTHUKRISHNAN
 Nominated owner, Rani
 Seethai Hall Building, IV &
 V 603, Anna Salai,
 Chennai, Tamilnadu CHENGAI-
 ANNA TAMIL NADU
 Phone:
 FAX :

Agent : Devesh Kumar Mishra
 Kallur (Vil), Garagapalli
 (Post), Chincholi (Tq),
 Gulbarga Dist. KARNATAKA
 GULBARGA KARNATAKA
 Phone: 09480827525
 FAX :

Mining Engineer
 Name : V.Rami Reddy, Full Time
 Qualification : B.TECH(MINING) SECOND CLASS MINES MANAGE
 Appointment/ : 10/06/2013
 Termination date

Geologist
 Name : M.Anandharaja, Full Time
 Qualification : M.Sc GEOLOGY
 Appointment/ : 12/11/2021
 Termination date

Manager
 Name : V.BALASUBRAMANI
 Qualification : D.MIN.ENGG.& 1st CLASS COMPETENCY CERTIF
 Appointment/ : 07/03/2012
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	15/04/2014
Plan/Scheme of Mining		MP modif under 17(3) MCR 2016	02/08/2017
		MP review under 17(1) MCR 2016	20/11/2018
		MP modif under 17(3) MCR 2016	04/02/2021

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	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	Nil	G-1 level of exploration completed over the entire lease area. However, the Geological Study Report have not been submitted to this office in accordance with Rule 12(4B) of MCDR 2017(amended 3rd Nov,2021) after completion of the G-1 level of Exploration. The Lessee was advised to submit the same vide letter no KNT/GLB/LST/50/BNG -Vol-II dated 11/03/2022.
1e	Balance reserve as on 01/04/20	308,168,575 tonnes with average grade CaO-44.76 %, MgO- 1.09 % (as on 01.12.2020)	307,045,223tonnes after depleting production.	As reported in AR 2020-21.

1f	General remarks of inspecting officers on geology, exploration etc	It was observed during inspection that the Geological Study Report have not been submitted to this office in accordance with Rule 12(4B) of MCDR 2017(amended 3rd Nov,2021) after completion of the G-1 level of Exploration. The Lessee was advised to submit the same vide letter no KNT/GLB/LST/50/BNG -Vol-II dated 11/03/2022.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Block-A E760726-761250, (CC'-DD') N1923575-1922861, Block-B E761113-761229 (J-J') N1924431-1924131	The development carried out within the proposed extent for Block A & B as per the proposal.	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed for OB & mineral.	Separate benches maintained in OB & mineral.	OB- 1 no. bench-4meter height, Mineral-4 nos. of benches-8-meter height.
2c	Stripping ratio or ore to OB ratio	1:0.03 (In tons)	1:0.11 (In tons)	Ore-2,398,243 tons Waste- 2,74,052 tons. As reported in AR 2020-21.
2d	Quantity of topsoil generation in m3	28,400Cum of topsoil generation proposed.	25,000 Cum of topsoil generated.	NIL

2e	Quantity of overburden generation in m3	26,600M3	1,06,755M3	Excess quantity of overburden generated due to more clay contaminated material encountered in top bench.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development carried out within the proposed extent as per the proposal.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2 pits Proposed (Block-A & Block-B).	Actual work carried out in two pits (Block-A & Block-B).	Block A -Sec-CC' to DD' Block B - Sec-JJ'
3b	Quantity of ROM mineral production proposed	39,99,750	23,98,243	The deviation in the overall ROM production is 40 % less than the approved proposal. Violation issued under Rule 11(1) of MCDR 2017.
3c	Recovery of sailable/usable mineral from ROM production	34,74,750 (86 % proposed)	23,98,243 (100 % achieved)	NIL
3d	Quantity of mineral reject generation	5,25,000 tons	Nil	The Low-grade limestone utilized concurrently through blending with the high-grade limestone.
3e	Grade of mineral rejects generation and threshold value declared.	Cao-34.17% SiO2-26.59 %	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	Mechanized method only Crushing proposed.	Mechanized method only crushing.	Crusher Specification: Make: Thyssen Krupp Industries India, Capacity:1200TPH, Input size:1580mm-corner to corner, Output size: 0-40mm.The crusher is located outside ML area.
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 & Blasting proposed.	Deep hole drilling and blasting carried out as per the proposal.	Drill dia-115mm Explosive- Slurry Explosive, ANFO
3k	Provision of mining machineries in mineral benches	Mining Machineries proposed	1.Excavator-2.1 Cum- 5 nos. & 1 Cum- 1 no. 2.Tippers-18.5 Cum- 16 nos. 3.Drill-115 mm- 1 no. 4.Water tanker-8KL - 1 no. 5. Wheel Loader-2.5 Cum- 1 no.	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Block-A(Bench Ht:9m proposed in mineral.) Block-B(Bench Ht:5m proposed in mineral.)	Bench height for Block-A and Block-B maintained as per the proposal.	NIL
3m	Total area covered under excavation/pits	76.57 ha at end of plan period.	61.97ha.	As reported in AR 2020-21.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.03 (In tons)	1:0.11 (In tons)	Ore-2,398,243 tons Waste- 2,74,052 tons. As reported in AR 2020-21.

3o	Total area put in use under different heads at the end of year	i)Area under Mining- 76.57 ha. ii) Used for Waste disposal- 4.12 ha. iii)Infrastruc ture & roads- 16.51 ha	i)Area under Mining- 61.97 ha. ii) Used for Waste disposal- 2.61 ha. iii)Infrastructure & roads-13.84 ha	As reported in AR 2020-21.
3p	Production of ROM mineral during the last five year period as applicable	2016-17: 70,00,000 2017-18: 99,00,000 2018-19: 99,00,000 2019-20: 39,99,500 2020- 21:39,99,750 (In Tonnes)	2016-17: 19,47,042 2017-18: 30,80,702 2018-19: 28,36,248 2019-20: 26,69,429 2020-21:23,98,243 (In Tonnes)	NIL
3q	General remarks of inspecting officers on method of mining etc.			The total ROM production proposed for the year 2020-21 is 3,999,750 tonnes against which 2,398,243 tonnes of ROM production has been done. The deviation in the overall ROM production is 40 % less than the approved proposal.Violation issued under Rule 11(1) of MCDR 2017.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of Topsoil, OB & Mineral Reject proposed.	Separate dumping of Topsoil & OB carried out.	No mineral Reject generation.

4b	Location of topsoil, OB and mineral reject dumps	Topsoil- Soil dump-1- E-760294, N- 1923966. OB: - WD-1-E-762123, N-1923858. WD-2-E-760306, N-1923344.	Topsoil dumping at Soil dump-1 and waste dumping at WD-1 & WD-2 carried out as per the proposal.	NIL
4c	Number of dumps within lease area and outside of lease area	Soil Dump-1 no. Waste Dump-2 nos.	Soil Dump-1 no. Waste Dump-2 nos.	WD-1 & WD-2.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	ProposedDumps within UPL	Within UPL	NIL
4e	Number of active and alive dumps.	Soil Dump-1 Waste Dump-2	Soil Dump-1 Waste Dump-2	WD-1 & WD-2 for OB dumping and Soil dump-1 for Top soil dumping.
4f	Number of dead dumps.	NIL	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 & garland drain proposed all along the dump.	It was observed during inspection that the Retaining Wall and Garland drain along toe of the waste Dump-2 at co-ordinates N-1923290, E- 780400 to N-1923400 E- 760200 are not maintained.	Violation issued under Rule 11(1) of MCDR 2017.
4i	Length of Retaining wall or garland drain all along dumps	537 m Retaining wall &550 m Garland drain proposed along Waste dump-WD-2.	It was observed during inspection that the Retaining Wall and Garland drain along toe of the waste Dump-2 at co-ordinates N-1923290, E- 780400 to N-1923400 E- 760200 are not maintained.	Violation issued under Rule 11(1) of MCDR 2017

4j	Number of settling ponds	No Proposal	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management			It was observed during inspection that the Retaining Wall and Garland drain along toe of the waste Dump-2 at co-ordinates N-1923290, E- 780400 to N-1923400 E-760200 are not maintained. Violation issued under Rule 11(1) of MCDR 2017.

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	NIL
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 backfilling proposals.

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 report on PMCP for the year 2020-21 submitted on 15.06.2021.	NIL
6b	Area available for rehabilitation (ha) .	2.50 ha afforestation proposed.	2.56 ha afforestation carried out.	Afforestation carried on green belt.
6c	afforestation done (ha).	2.50 ha proposed.	2.56 ha carried out.	As reported in Annual PMCP report 2020-21.
6d	No. of saplings planted during the year	4,000 nos. of saplings plantation proposed.	4,100 nos. of saplings plantation carried out within lease area.	As reported in AR 2020-21.
6e	Cumulative no .of plants	44,000nos. of saplings.	47,392nos. of saplings.	As reported in Annual PMCP report 2020-21.
6f	Any other method of rehabilitation	No Proposal	NIL	NIL
6g	Cost incurred on watch and care during the year	No Proposal	NIL	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx 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 on backfilled area	No Proposal	NIL	NIL

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	No Proposal	NIL	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.	Environmental monitoring carried out for Air; water & Noise carried out as per the proposal. Environmental monitoring report for the month of March-21 available during inspection. The environmental monitoring parameters are within limits	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			The PMCP work have been carried out inside the mine as per the proposal.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal for sorting. Only crushing proposed.	No sorting carried out. Only crushing.	Crusher Specification: Make: Thyssen Krupp Industries India, Capacity:1200TPH, Input size:1580mm-corner to corner, Output size: 0-40mm.The crusher is located outside ML area.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	NIL	NIL
7c	Different grade of mineral sorted out at mines.	No proposal	NIL	NIL
7d	Any beneficiation process at mines	No proposal	NIL	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No specific comments.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	28,400Cum of topsoil generation proposed.	25,000 Cum of top soil generated.	Topsoil storage location- Soil dump-1- E-760294, N-1923966
8b	Concurrent use or storage of topsoil	28,400 Cum of topsoil generation and storage proposed.	25,000 Cum of top soil generated and stored at the earmarked location.	Topsoil storage location- Soil dump-1- E-760294, N-1923966
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping proposed for Overburden & mineral Reject.	Separate dumping maintained for OB at the earmarked location. No mineral rejects generated	OB: - WD-1-E-762123, N-1923858. WD-2-E-760306, N-1923344.

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	NIL	NIL
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)	44,000nos. of saplings.	47,392nos. of saplings.	As reported in Annual PMCP report 2020-21
8g	Survival rate	70% proposed.	80% achieved within ML area.	As reported in AR 2020-21.
8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed to control airborne dust inside the mine.	Water tanker of capacity 8KL- 1 no utilized for water sprinkling to control airborne dust.	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The aesthetic beauty in and around the mines looks good.

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 Jan-22 on07.02.2022. A.R. Submitted 2020-21 on29.06.2021.	M.R. Submitted up to Jan-22 on07.02.2022. A.R. Submitted till year 2020-21 on29.06.2021.	NIL

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	i)Mining Engineer-Sri. V.Rami Reddy, ii)Geologist-Sri.K.V.Subba Reddy iii)Manager-Sri. V.Balasubraman i	Appears to be correct.	The Geologist have been changed. Notice of appointment of Geologistof Sri. M.Anandharaja sent on 12.11.2021 in place of Sri. K.V.Subba Reddy.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	i)Area under Mining- 61.97 ha. ii) Used for Waste disposal- 2.61 ha. iii)Infrastruc ture & roads- 13.84 ha	Appears to be correct.	NIL
9d	Scrutiny of Annual return on afforestation	WML-4,100 nos. of saplings with 80 % survival rate &OML-2,900 nos. of saplings with 80% survival rate.	Appears to be correct.	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	Appears to be correct.	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Stock Opening stock- Nil Production - 2398243 tons Closing stock - Nil Graded ore: - Opening Stock- 1064115 tons Production- 2398243 tons Dispatch- 2646838 tons Closing stock- 815520 tons	Appears to be correct.	NIL

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	COP:Rs.199.70/ Ton, Ex. Mine price:Rs.199.70/Ton.	Appears to be correct.	The mine is Captive.
9h	Scrutiny of Annual return on fixed assets	Rs.2905095840 including Land, Industrial & Plant and Machinery.	Appears to be correct	NIL
9k	Scrutiny of Annual return on mining machineries	1. Excavator- 2.1 Cum- 5 nos. & Cum- 1 no. 2.Tippers-18.5 Cum- 16 nos. 3.Drill-115 mm- 1 no. 4.Water tanker-8KL - 1 no. 5. Wheel Loader-2.5 Cum- 1 no.	Appears to be correct	NIL

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)	14/03/2022			

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines