

MCDR INSPECTION REPORT

S. N.	Particulars	Details
1	Name of the Mine	Kallur Limestone mine, ML No.2648
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	422.94 Ha
3	Mine code	38KAR10016
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/170/2011
5	Name of the lessee, Address, phone, email and fax number	M/s.ChettinadCementCorporation Pvt Limited, Rani Seethai Hall Building, IV Floor, 603, Anna Salai, Chennai, Tamilnadu– 600006.anandharaja@chettinadcement.com
6	Village	Kallur
7	Taluk/Mandal	Chincholi
8	District	Gulbarga
9	Pin code	585 305
10	State	Karnataka
11	Post office	Garagapalli
12	Nearest police station	Miryan
13	Nearest Railway station	Tandur
14	Date of Grant of Mining Lease	25/09/2010
15	Date of Execution	25/09/2010
16	Date of opening of Mine	07/03/2012
17	Date of first Renewal, if applicable and its period & expiry	Not Applicable
18	Date of second Renewal, if applicable and its period & expiry	Not Applicable
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	Mohan Muthukaruppan, Director and Nominated owner, Rani Seethai Hall Building, IV Floor, 603,Anna Salai, Chennai,Tamilnadu – 600006 Date of Appointment: 01.04.2022 anandharaja@chettinadcement.com
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri K. Sai Kumar, Unit Head & Mines Agent, Kallur (Village), Garagapalli (Post), Chincholi (Taluk), Gulbarga Dist. Karnataka – 585 305. Phone: 09480827525, E-mail: saikumar.k@chettinadcement.com Date of Appointment: 01.08.2022
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri.V.Balasubramani, M/s Chettinad Cement Corporation Pvt. Limited, Kallur (Village), Garagapalli (Post), Chincholi (Taluk) Gulbarga District. Karnataka – 585 305. Phone: 09480827511 E-mail: subramani.v@chettinadcement.com Date of Appointment: 07.03.2012.

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23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri P. Chalapathi Rao, AMIE (Mining), Experience: 23.0 Years M/s Chettinad Cement Corporation Pvt. Limited, Kallur (Village), Garagapalli (Post), Chincholi (Taluk) Gulbarga District. Karnataka – 585 305. Phone: 09480832711 E-mail: chalapathi.purama@chettinadcement.com Date of Appointment: 07.07.2023.
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri N. Srinivasulu, M.Sc., (Geology), Experience: 13.0 Years M/s Chettinad Cement Corporation Pvt. Limited, Kallur (Village), Garagapalli (Post), Chincholi (Taluk) Gulbarga District. Karnataka – 585 305. Phone: 09480832667 E-mail: srinivasulu.n@chettinadcement.com Date of Appointment: 24.11.2022
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	a) On 15.04.2009 Approval of Mining Plan Period from 2009-10 to 2013-14.
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	b) On 23.07.2012 Modified Mining Plan Period from 2012-13 to 2013-14. c) On 15.04.2014 Scheme of Mining Period from 2014-15 to 2018-19. d) On 04.08.2017 Modification & Review Mining Plan Period from 2017-18 to 2018-19. e) On 27.11.2018 Review and updation of Mining Plan Period from 2019-20 to 2023-24.
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining (Opencast, Underground)	Opencast
29	Category (Fully Mechanized, Others or Manual)	Fully Mechanised
30	Captive/ Non captive	Captive
31	Date of inspection	23.10.23
32	Name of accompanying mine officials with designation	V. Balasubramani-Manager P. Chalapathi Rao-Mining Engineer N. Srinivasulu-Geologist M. Ravichandran-Surveyor

Exploration

S.N.	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
1a	Backlog of previous year	No proposal.	Nil	-
1b	Exploration over lease area for Geological axis 1 or 2.	No proposal	Nil	-
1c	Exploration Agency & Expenditure in lakh Rupees during the year		Nil	-

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		Nil		
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposals	G1-422.94ha G2- Nil G3-Nil G4-Nil	-
1e	Balance reserves as on 01.04.2023	-	-	Reserves as on 1.4.2023 is 301209314 t
1f	General remarks of inspecting officer on geology, exploration etc.	There are no proposals of exploration for the year 2022-23.		

Development

S.N.	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
2a	Location of development w.r.t. lease area	Block A : Section B-B' to F-F' Block B : Section I-I' & J-J'.	Block A : Section B-B' to F-F' Block B : Section I-I' & J-J'.	-
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Yes	Separate benches Maintained	-
2c	Stripping ratio or ore to OB ratio	1 : 0.04 (in tonnes)	1: 0.05 (in tonnes)	Ore :2686654 t OB :144032 t
2d	Quantity of topsoil generation in m ³	57960m ³	36892 m ³	-
2e	Quantity of overburden generation in m ³	23200 m ³	18,505 m ³	-
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	There are no specific remarks on development of pit.		

Exploitation

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	One	One	

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3b	Quantity of ROM mineral production proposed	40,00,000 t	26,86,654 t	Less production due to cement marketing conditions in the region.
3c	Recovery of salable/usable mineral from ROM production	100%	%	-
3d	Quantity of mineral reject generation	NIL	NIL	-
3e	Grade of mineral reject generation and threshold value declared	NIL	NIL	-
3f	Quantity of sub-grade mineral generation	NIL	NIL	-
3g	Grade of sub-grade mineral generation	-	-	-
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method	Mechanised method	This mine is mechanized and captive.
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	No	-
3j	Provision of drilling & blasting in mineral benches	Deep hole Drilling & Blasting	Deep hole Drilling & Blasting Drill dia-115mm	-
3k	Provision of mining machineries in mineral benches	Excavator & Tipper Combination	Excavator -6 Back hoe 1.0cum -1 Drill - 2 Tipper -25 Water Tanker -1 (12000lt) Dozer -1	
3l	Whether height of	Yes	Yes, Bench height-9m	

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	benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height-9m Width -30m	Width -30m	
3m	Total area covered under excavation/pits	76.57 Ha (At the end of the plan period)	67.10Ha	
3n	Ore to OB ratio for the pit/mine during the year	1 : 0.04 (in tonnes)	1: 0.05 (in tonnes)	Ore :2686654 t OB :144032 t
3o	Total area put in use under different heads at the end of year	Area of Excavation : 76.57ha Storage of topsoil : 13.20ha OB Soil dump : 4.12ha Mineral Storage : 11.82ha Infrastructure : 1.51ha Roads : 15.00ha Greenbelt/ Afforestation :4.90ha (At the end of plan period)	Mining -67.10Ha Dumping – 4.11 Ha Mineal Storage, topsoil, Plantation : 30.06ha Roads : 12.00ha	
3p	Production of ROM mineral during last five-year period, as applicable	2018-19 : 99,00,000 2019-20 : 39,99,500 2020-21 : 39,99,750 2021-22 : 40,00,000 2022-23 : 40,00,000 (in Tonnes)	2018-19 : 28,36,248 2019-20 : 26,69,429 2020-21 : 23,98,243 2021-22 : 31,49,255 2022-23 : 26,86,654 (in Tonnes)	
3q	General remarks of inspecting officer on method of mining etc.	There is no change in method of mining.		

Solid Waste Management-Dumping

S.N.	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Yes	Yes	

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4b	Location of topsoil, OB & mineral reject dumps	Top soil (E-760296 & N-1923942) OB- (E-762141 & N-1924905)	Top soil (E-760295 & N-1923940) OB E-760308&N-1923322 in Block-A E-762102 & N-923995 in Block-B	
4c	Number of dumps within lease area and outside lease area	WML – 3 nos Soil Dump-1 Waste Dump-2	WML – 3 nos Soil Dump-1 Waste Dump-2	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL	Within UPL	
4e	Number of active & alive dumps	Active – 3 Soil Dump-1 Waste Dump-2	Active – 3 Soil Dump-1 Waste Dump-2	
4f	Number of dead dumps	NIL	nil	
4g	Number of dumps stabilized	nil	nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dump	RW: Dimension (LxWxH): (588m x 2m x 2m) E-760148-760492 & N-1923993-1923880 & GD: Dimension (LxWxH): (683mx1.5mx1.5m) E-762148-760492 & N-923993-1923880	RW: (693m x 2m x 2m) E-760159-760460 & N-1923935-1923963 & GD (690m x 1.5m x 1.5m) E-760159-760460 & N-1923935-1923963	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management.	There are no specific comments on waste dump management.		

Solid Waste Management-Backfilling

S.N.	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposal	Nil	

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5b	Area under backfilling of mined out area	No proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal	Nil	
5d	Total area fully reclaimed & rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No proposals for backfilling for the year 2022-23.		

Progressive Mine Closure Plan

S.N.	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-20.	Yes	submitted on 26.06.2023.	-
6b	Area available for rehabilitation (ha)	No proposal	Nil	-
6c	Afforestation done (ha)	2.00 ha	1.945 ha	Haulage road and Green belt
6d	No. of saplings planted during the year	4,000 saplings	4,000 saplings	Haulage road and Green belt
6e	Cumulative no. of plants	51,000 saplings	58,531 saplings	Haulage road and Green belt
6f	Any other specific method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch & care during the year	No proposal	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D)	No proposal	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings	No proposal	Nil	

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6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the 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 rehabilitated (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 & buffer zone)	Environment monitoring proposed	Environment monitoring carried out.	All the environmental parameters within limit
6q	General remarks of inspecting officer on PMCP compliance & progressive closure operations	The PMCP proposals have been implemented in the mine as per the proposed		

Mineral Conservation

S.N.	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal for grade wise sorting. Only crushing and screening proposed	Crushing of ROM carried out.	Crusher Specification: Make: Thyssen Krupp Industries India, Capacity:1200 TPH, Input size:1580mm-

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				corner to corner, Output size: 0-40mm. The crusher located outside ML area.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No proposal	nil.	-
7c	Different grade of mineral sorted out at mines	No proposal	nil.	-
7d	Any beneficiation process at mines	No proposal	nil.	-
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No specific comments.		

Environment

S.N.	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	57960 m ³	36892m ³	
8b	Concurrent use or storage of topsoil	Yes	Yes	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining	No proposal	Nil	-

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	operations (Pits, dumps etc)			
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	4,000 saplings	4,000 saplings	Haulage road and Green belt
8g	Survival rate	70%	95%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul roads proposed to control airborne dust.	Water sprinkling carried out to control the airborne dust on haul roads and screening plant.	A water tanker of 12000 liters capacity used for water sprinkling.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	There is no change in aesthetic beauty in and around mines area.		
Compliance of Rule 45				
S.N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Returns. Submitted up to September, 2023 as on 07.02.2022. Annual Returns Submitted up to 2022-2023 as on 30.06.2021.		
S.N.	Item	Details GIVEN in A.R.	Observation of I/ Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	N. Srinivasulu, Geologist; V.Rami Reddy, Mining Engineer ; V. Balasubramani, Manager	Appears to be correct	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining -67.10Ha Dumping – 4.11 Ha Mineal Storage, topsoil, Plantation : 30.06ha Roads : 12.00ha	Appears to be correct	
9d	Scrutiny of Annual return on afforestation	4,000 saplings	Appears to be correct	
9e	Scrutiny of Annual return on mineral reject	Nil	Appears to be	

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	generation (Grade & quantity)		correct	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	O/S –Nil Production - 2682654t C/S – Nil	Appears to be correct	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of production- Rs225.12/tonne. Ex-pricemine- Rs225.12/tonne	Appears to be correct	This is a captive mine.
9i	Scrutiny of Annual return on fixed assets	Fixed Assets : 2808673746/-.	Appears to be correct	-
9k	Scrutiny of Annual return on mining machineries	Excavator -6 Back hoe 1.0cum -1 Drill - 2 Tipper -25 Water Tanker -1 (12000lt) Dozer -1		

Date :

(K. Srinivas)
Junior Mining Geologist
Indian bureau of Mines