

MCDR INSPECTION REPORT FOR 2018-19

S. N.	Particulars	Details
1	Name of the Mine	Pedagarlapadu Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total :377.68Ha, Forest :0, Non Forest: 377.68ha
3	Mine code	38APR07069
3a	Date of Inspection	04.06.2019
3b	Name of Inspecting Officer with Designation	S K Muduli, JMG
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 Chettinad Cement Corporation Ltd, Phone:7997979601 Mail: ramamoorthy.s@chettinadcement.com
6	Village	Pedagarlapadu & Kesunapalli
7	Taluk/Mandal	Dachepalli
8	District	Guntur
9	Pincode	522437
10	State	Andhrapradesh
11	Post office	Pedagarlapadu
12	Nearest police station	Dachepalli
13	Nearest Railway station	Nadikudi
14	Date of Grant of Mining Lease	08/07/2016
15	Date of Execution	24/08/2016
16	Date of opening of Mine	27/03/2019
17	Date of first Renewal, if applicable and its period & expiry	Not Applicable
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	L Muthukrishnan, 4th floor, Chettinad Towers, 603, Annasali, Chennai. Tamilnadu. Pin: 600006 Phone: 044-42149955 Mail Id: Muthukrishnan.l@chettinadcement.com DOA: 24/10/2018
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sri. S Ramamoorthy Pedagarlapadu Limestone Mine Chettinad Cement Corporation Pvt. Ltd., Pedagarlapadu, Dachepalli Mandal, Guntur Dist. A.P – 522 437 24/10/2018
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Sri. S Brahmaiah First Class Manager (Restricted) Pedagarlapadu Limestone Mine Chettinad Cement Corporation Pvt. Ltd., Pedagarlapadu, Dachepalli Mandal, Guntur Dist. A.P – 522 437 DOA: 24/10/2018
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Sri. S Ramamoorthy Pedagarlapadu Limestone Mine Pedagarlapadu, Dachepalli Mandal, Guntur Dist. A.P – 522 437

		Qualification – BE (Mining) Years of Experience – 26 years DOA: 27/03/2019
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Sri. TV Rama Rao Pedagarlapadu Limestone Mine Pedagarlapadu, Dachepalli Mandal, Guntur Dist. A.P – 522 437 DOA: 27/03/2019
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	22/07/2014
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	NA
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Opencast, Underground)	Opencast
29	Category (Fully Mechanised, Others or Manual)	Fully Mechanised
30	Captive/ Non captive	Captive

Exploration

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	106 nos core bore holes for a drilling meterage of 5300m.	48 bore holes for a total meterage of 2559.5 is drilled	Violation issued on 24.06.2019 for not drilling 58 nos of core bore holes and the balance drilling meterage.
1b	Exploration over lease area for Geological axis 1 or 2.	G1 – 377.68 Ha	G1 – 56.50 Ha G2 – 66.92 Ha G3 – 254.26 Ha	Violation issued for not drilling balance core bore holes.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Natural Resources Development Co-Operative Society Ltd, Hyderabad Expenditure- Rs.75.00 Lakhs	Natural Resources Development Co-Operative Society Ltd, Hyderabad Expenditure- Rs.44.00 Lakhs	58 nos of core bore holes still pending.
1d	Balance area to be explored to bring Geological axis in 1 or 2	286.39 Ha	254.26 Ha	81.29 Ha explored under G1 & G2 level during PL stage.
1e	Balance reserves as on 01.04.2019	Reserves -88.84 Mil.T Remaining Resources – 342.05 Mil.t	Reserves -99.84 Mil.T Remaining Resources – 342.05 Mil.t	No production under taken. Mine opened on 27/03/2019.
1f	General remarks of inspecting officer on geology, exploration etc.	The strike of the deposit is NE-SW and dipping 5 to 15 degrees towards SE.Both massive and flaggy limestone		

		found to occur. The deposit falls under Narji Stage, Kurnool Group. The CaO% ranges from 42.77% to 49.94% with average grade of CaO%-46.73%.		
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Development

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	N-1828649 to N-1829048 / E-365288 to E-365960	Nil in 2018-19	Mine opened on 27.03.2019. As on date of inspection i.e 04.06.2019 development work was under progress well within the proposed location.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Separate top soil bench proposed to be developed at Location of top soil benches N-1828779 to N-1829529 / E-365222 to E-365456	Separate top soil bench will be maintained	Top soil thickness ranging from 1 m to 3m. Average top soil thickness is 1m.
2c	Stripping ratio or ore to OB ratio	1: 0.03 (Ore : Black Cotton Soil)	Nil (opened the mine on 27/03/2019. So far no limestone is mined)	
2d	Quantity of topsoil generation in m ³	64992cum(132558 T)	Nil	
2e	Quantity of overburden generation in m ³	Nil	Nil	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	On date of inspection the development work was under progress.		

Exploitation

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	One	Nil	As on date of inspection i.e 04.06.2019, development work was under

				progress.
3b	Quantity of ROM mineral production proposed	50,00,000 Tonnes	Nil in 2018-19	Mined opened on 27/03/2019.
3c	Recovery of salable/usable mineral from ROM production	100% recovery, the entire ROM produced will be utilized	Nil.	
3d	Quantity of mineral reject generation	No Proposal.	Nil.	As per the exploratory data the deposit does not have any substantial quantity of Limestone below the cut off grade and is not separable. The average grade of the deposit is CaO%-46.73% which is above cutoff requirement of CaO%-42%.
3e	Grade of mineral reject generation and threshold value declared	NA	NA	Threshold-CaO%-34%, MgO%-5.
3f	Quantity of sub-grade mineral generation	No sub grade generation proposal.	Nil	The entire ROM produced will be used. The average grade of the deposit is CaO%-46.73%.
3g	Grade of sub-grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	No segregation proposed	Nil	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	Nil	Deposit average grade is CaO%-46.73% which does not require any type of beneficiation.
3j	Provision of drilling & blasting in mineral benches	150mm dia hole,4nos Hydraulic drill, Spacing - 5m,burden-4m, depth-10m,Slurry explosive-20%,ANFO-80%	Nil as mine was opened on 27/03/2019	
3k	Provision of mining machineries in mineral benches	Excavators-4.2 cum-1no, Rock breaker, Dumpers-35Tonners-22 nos	Nil as mine was opened on 27/03/2019	
3l	Whether height of benches in overburden	1m in top soil, 9.0 m in mineral bench	Yes, the boom height of the	

	and mineral suitable for method of mining proposed in MP/SOM		excavator is compatible with the proposed bench height.	
3m	Total area covered under excavation/pits	21.50 Ha	Nil	Mine opened on 27.03.2019. First three years from 2016-17 to 2018-19 there is no production as clinker/cement plant has not been installed. As on date of inspection 04.06.2019, 1.014 Ha area has been put under mining (development).
3n	Ore to OB ratio for the pit/mine during the year	1:0.03	---	During 2018-19 no limestone is produced and no top soil has been generated.
3o	Total area put in use under different heads at the end of year	31.54 Ha is proposed to be put to use including 21.50 Ha mining area.	Nil	4.36 Ha is put to use including mining area, road, infrastructure and green belt
3p	Production of ROM mineral during last five-year period, as applicable	11 Mil.T for the first 3years of the plan period.	Nil	Mine operation has commenced on 27.03.2019
3q	General remarks of inspecting officer on method of mining etc.	Mechanised method of mining using shovel-dumper combination and deep hole drilling and blasting method for winning the ore.		

Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	132558 tonnes of top soil to be used for Green belt developement in 7.5m safety zone (3 Ha) & Nala safety barriers(5.31Ha)	Nil in 2018-19.	Mine opened on 27/03/2019.
4b	Location of topsoil, OB & mineral reject dumps	The top soil produced will be utilised for green belt development along 7.5m safety	Nil	

		zone and 50m safety barrier.		
4c	Number of dumps within lease area and outside lease area	No dump is proposed to be created	NA	The top soil generated will be utilized for green belt development. No dump will be created.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No dump proposed	Nil	Mine opened on 27.03.2019.
4e	Number of active & alive dumps	None	Nil	
4f	Number of dead dumps	None	Nil	
4g	Number of dumps stabilized	None	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	NA	NA	NA
4i	Length of Retaining wall or garland drain all along dump	NA	NA	NA
4j	Number of settling ponds	NA	NA	NA
4k	Specific comments of inspecting officer on waste dump management.	Since, there is no over burden and mineral reject in this lease therefore waste/mineral reject dumps are not proposed/required.		

Solid Waste Management-Backfilling

S.N.	Item	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling	No proposal	Nil as Mine opened on 27.03.2019 and mining production is yet to undertake	Mine opened on 27.03.2019. Mineral is yet to exhaust hence the question of backfilling does not arise.
5b	Area under backfilling of mined out area	Not proposed	NA	NA
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not proposed	NA	NA
5d	Total area fully reclaimed & rehabilitated	Not proposed	NA	NA
5e	General remarks of inspecting officer on backfilling, reclamation etc	The mining production is yet to start.		

Progressive Mine Closure Plan

S.N.	Item	Proposals	Actual work	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.	To submit	Submitted on 24.06.2019.	
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	i) No proposal ii) Nil as there is no worked/mined out benches. iii) Nil as there is no worked/mined out benches. However 36424 nos plantation in 22.765 Ha (3.375 Ha 7.5m safety zone 19.39 Ha 50m nala safety barrier) has been proposed in the first five year block period. iv) v)No specific proposal vi)No proposal	i)Nil ii)Nil iii) 2700 nos in 3.5 Ha along 7.5m safety zone in 2018-19. iv)2700 nos v) Nil vi) Rs.433500.00 towards plantation and measures towards its survival.	Mine opened on 27/03/2019. Year wise proposal of plantation is not provided in approved document. Action will be taken for short fall after reviewing the status after completion of first five years.
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	No Proposal	NA	Mining is yet to start, hence the question of reclamation and rehabilitation by backfilling does not arise.
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	No waste lands is available within the mining lease area	NA	NA
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Air, Water & Noise to be monitored	Mine opened on 27.03.2019.	Air, Water & Noise has been monitored in April-2019.
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	It is a virgin mining lease. Mining activities are yet to start for area to be matured enough for PMCP activities.		

Mineral Conservation

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Proposed to despatch ROM. Grade wise sorting not proposed.	Nil	Mine opened on 27.03.2019
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No grade-wise sorting proposed.	NA	Average grade of the deposit is CaO%-46.73%.
7c	Different grade of mineral sorted out at mines	No proposal	NA	
7d	Any beneficiation process at mines	No proposal for beneficiation	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The average grade of the deposit is CaO%-46.73%.Beneficiation study is not warranted.		

Environment

S.No	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	The total top soil proposed to be handled is 1,32,558 Tonnes for the year 2018-19	During 2018-19 there was no top soil handling.	Mine opened on 27/03/2019.
8b	Concurrent use or storage of topsoil	The top soil produced will be utilised for green belt development along 7.5m safety zone and nala safety barrier.	Nil	As on date of inspection 10000 m ³ top soil has been generated and used for green belt development purpose.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal as other than top soil no waste rocks, rejects, overburden is there in the deposit.	NA	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	NA	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal for 2018-19	NA	
8f	Baseline information on	To be done in 7.5m	2700 nos tree	

	existence of plantation & additional plantation done (Rule 41)	buffer zone & on the safety barrier along the Nallah.	saplings planted in 7.5m safety zone.	
8g	Survival rate	70 to 80%	90%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling to be done by 10KL water tanker	Nil as mine opened on 27.03.2019.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	It is a virgin mine and mine is yet to start. Aesthetic beauty in and around mine area found to be ok.		

Compliance of Rule 45

S.N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to May 2019. AR not submitted as on date of inspection, for which the last date of submission of was upto 01.07.2019.		Mine opened on 27/03/2019. AR for 2018-19 not submitted, Violation issued on the basis of scrutiny of .
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	AR for 2018-19 not submitted.	All appointment date is Mining Enginneer- S.Ramamoorthy appointed on 25.03.2019, Geologist - T.Venkata Rama Rao appointed on 27.03.2019 Manager- S.Brahmaiah appointed on 27.03.2019	Form H submitted
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	AR for 2018-19 not submitted.	4.36 Ha is put to use including mining area- 1.014 Ha, road - 2.2709 Ha, office- 0.8693 Ha, Magazine- 0.1819 Ha, WB-.0234.	
9d	Scrutiny of Annual return on afforestation	AR for 2018-19 not submitted.	2700 nos sappling planted in 2018-19.	

9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	AR for 2018-19 not submitted.	Nil as there is no mineral reject and no production obtained	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	AR for 2018-19 not submitted.	Nil as during 2018-19 no production has been under taken.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	AR for 2018-19 not submitted.	Nil as during 2018-19 no production has been under taken.	
9i	Scrutiny of Annual return on fixed assets	AR for 2018-19 not submitted.	Mine opened on 27.03.2019.	
9k	Scrutiny of Annual return on mining machineries	AR for 2018-19 not submitted.	Mine opened on 27.03.2019.	

S K Muduli

S K MUDULI,
JUNIOR MINING GEOLOGIST
(Name of inspecting officer with designation)