

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

**MCDR inspection REPORT  
Hyderabad regional office**

Mine file No : AP/GNR/LST-55/HYD

Mine code : 38APR07069

- (i) Name of the Inspecting : C\$10 ) Ch.Suseela  
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Shri S. Brahmaiah, Manager (Mines), Sri.T.Venkata Ram  
Official with  
Designation
- (iv) Date of Inspection : 05-APR-23
- (v) Prev.inspection date : 11-AUG-22

**PART-I : GENERAL INFORMATION**

1. (a) Mine Name : PEDAGARLAPADU (377.523 HA)
- (b) Registration NO. : IBM/170/2011
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : ANDHRA PRADESH  
District : GUNTUR  
Village : PEDAGARLAPADU  
Taluka : DACHEPALLI  
Post office : PEDAGARLAPADU  
Pin Code : 522437  
FAX No. : 044-28291558  
E-mail : chtdmds vsnl.com  
Phone : 9698011144
- (f) Police Station : DACHEPALLI
- (g) First opening date : 27-MAR-19
- (h) Weekly day of rest : SUN
2. Address for : Pedagarlapadu-Village,  
correspondance : Dachepalli-mandal, Guntur.  
AP
3. (a) Lease Number :  
(b) Lease area : 377.68 ha  
(c) Period of lease : 50 yrs  
(d) Date of Expiry : 23.8.2066
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : M/S.CHETTINAD CEMENTS  
GUNTUR ANDHRA PRADESH  
Phone:  
FAX :

Owner : M/S. CHETTINAD CEMENTS  
M/S. chettinad Cement  
Corporation (p) Ltd,4th  
floor, Chettinad Towers  
603, Annasalai, Chennai-  
600006 T.N. GUNTUR ANDHRA  
PRADESH  
Phone:  
FAX :

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	22-JUL-14
Plan/Scheme of Mining	:	MP review under 17(1) MCR 2016	10-NOV-20

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	NIL	
1b	Exploration over lease area for geological axis 1 or 2	2022-23-- No proposal	NIL	Total mineralised area is covered under G1 Category.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal	NIL	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	NIL	Total mineralised area is explored under G1 Category.
1e	Balance reserve as on 01/04/20	Proved-- 261.11 million tonnes (111) Resources-- 434.74 million tonnes (211)	Proved-- 262.04 million tonnes (111) Resources-- 434.74 million tonnes (211)	
1f	General remarks of inspecting officers on geology, exploration etc	_____	_____	The ML area constitutes part of Northern kadapa basin underlain by Kadapa and Kurnool super group of rocks. The Limestone beds are showing a trend of NE-SW with a dip of 5-15 deg due SE

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N-1828553 to 1829058 E- 365511 to 365933	N-1828553 to 1829058 E- 365511 to 365933	



2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, Proposed separate benches for top soil and mineral.	As proposed top soil bench and mineral benches are developed. Top Soil is occurring as a thin layer.	
2c	Stripping ratio or ore to OB ratio	No proposal	NIL	There is no OB available . Limestone is occurring as outcrop with a thin layer of top soil
2d	Quantity of topsoil generation in m3	28442 cu.m	28692 cu.m	
2e	Quantity of overburden generation in m3	No proposal	NIL	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	_____	_____	Topsoil is scrapped and stored in the earmarked area for utilising to the plantation. No overburden generated in the mining area.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit	One Pit	
3b	Quantity of ROM mineral production proposed	2022-23--- 3101000 MT	2022-23- 2171000 MT	Achieved less production due to lack of demand from plant and in the market
3c	Recovery of sailable/usable mineral from ROM production	100 %	100%	
3d	Quantity of mineral reject generation	No proposal	NIL	

3e	Grade of mineral rejects generation and threshold value declared.	Not Applicable as no mineral reject is envisaged to be generated	NIL
3f	Quantity of sub grade mineral generation.	No Proposal	Nil
3g	Grade of sub grade mineral generation	Not Applicable	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	NIL
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	NIL
3j	Provision of drilling and blasting in mineral benches	Yes, drilling and blasting is proposed in mineral benches 115 mm dia, 62020 mt, Spacing--5 m, Burden--4 x 7.5 x 2.5 m (BD)	Drilling and Blasting is carried out in mineral benches 115 mm dia, 43420 mt, Spacing--5 m, Burden--4 x 7.5 x 2.5 m (BD)
3k	Provision of mining machineries in mineral benches	Excavator--3.5 cu.m, Rock Breaker, wagon drill tippers-18 cu.m capacity, Dozer, Explosive Van, water tanker	Excavator--2.6cu.m, Rock Breaker, wagon drill tippers-18 cu.m capacity, Dozer, Explosive Van, water tanker
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	One meter in top soil and 7.5 m in mineral bench	Less than 1 m in top soil and 7.5 m in mineral bench

3m	Total area covered under excavation/pits	20.62 ha	19.81 ha	
3n	Ore to OB ratio for the pit/mine during the year.	No Proposal	Nil	
3o	Total area put in use under different heads at the end of year	pit--20.62 ha, Roads--3.98 ha, Infrastructure -- 0.09 ha, Top soil--1.3 ha, Green Belt--10.6 ha, Total--36.59 ha	Pit--19.81ha, Roads-- 3.50 ha, Infrastructure- - 0.09 ha, Top soil-- 1.02 ha, Green Belt-- 9.76 ha, Total--34.18 ha	
3p	Production of ROM mineral during the last five year period as applicable	2018-19-- 50,00,000 MT, 2019-20-- 50,00,000 MT, 2020-21-- 50,00,000 MT, 2021-22-- 28,00,850 MT, 2022-23-- 31,01,000 MT	2018-19--NIL , 2019-20-- 1,00,000 MT, 2020-21-- 9,23,000 MT, 2021-22-- 16,77,000 MT, 2022-23-- 21,71,000 MT	
3q	General remarks of inspecting officers on method of mining etc.			Mining is being carried out by fully mechanised method by deploying HEMM.

#### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposed to dump the topsoil seperately in the earmarked area near magazine.	As proposed the topsoil is dumped seperately in the earmarked area near magazine.	
4b	Location of topsoil, OB and mineral reject dumps	Topsoil to be stored near magazine	As proposed Topsoil is stored near magazine	



4c	Number of dumps within lease area and outside of lease area	No waste dump proposed	NIL	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No Proposal	NIL	
4e	Number of active and alive dumps.	No proposal	NIL	
4f	Number of dead dumps.	No proposal	NIL	
4g	Number of dumps established.	No proposal	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	NIL	
4i	Length of Retaining wall or garland drain all along dumps	No proposal	NIL	
4j	Number of settling ponds	No proposal	NIL	
4k	Specific comments of inspecting officer on waste dump management	_____	_____	No waste dump proposed in the lease area. Garland drain proposed and developed along the lease boundary to divert the runoff water.

#### 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	

5b	Area under backfilling of mined out area	No Proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	NIL	
5d	Total area fully reclaimed and rehabilitated	No Proposal	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	_____	_____	The mine is opened in 2019. Hence the pit is not reached to its ultimate depth. As such , the back filling and reclamation does not arise at this stage.

#### Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Annual Report on PMCP compliance is to be submitted before 1st July every year.	Annual Report on PMCP compliance has been submitted for the year 2021-22. For the year 2022-23, it is to be submitted before 1.7.2023.	As on date, it is not due.
6b	Area available for rehabilitation (ha) .	No proposal	NIL	
6c	afforestation done (ha).	No proposal	NIL	
6d	No. of saplings planted during the year	No Proposal	NIL	
6e	Cumulative no .of plants	No proposal	NIL	



6f	Any other method of rehabilitation	No Proposal	NIL
6g	Cost incurred on watch and 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) Voids filled by waste / tailings	No proposal	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on 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 rehabilitation (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 and buffer zone)	Quarterly monitoring of environmental parameters are to be carried out.	Quarterly monitoring of environmental parameters have been carried out.	The results are cross checked and found within limits.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	_____	_____	The mining operations have been started in the year 2019. As such, the mine pit is not reached to its ultimate limit.

#### Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal for sorting . Total ROM is being utilised.	No grade wise sorting is practiced as total ROM is being utilised	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not Applicable	NIL	
7c	Different grade of mineral sorted out at mines.	Not Applicable	NIL	

7d	Any beneficiation process at mines	No Proposal	NIL	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	_____	_____	No beneficiation is required as total ROM is being utilised.

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**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	The top soil proposed to be handled is 28 442 Cu.m	The top soil handled and utilised is 28 692 Cu.m	
8b	Concurrent use or storage of topsoil	The top soil generated will be utilised for bund formation along safety zone and for afforestation.	The top soil generated is utilised for bund formation and for afforestation all along east side of ML boundary.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Proposal	NIL	There is no generation of waste rock or mineral reject.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Applicable	NIL	



8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	NIL	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2500 plants for the year 2022-23	3638 plants have been planted in the year 2022-23. Cumulative plants --14848 Nos	
8g	Survival rate	70 to 80%	90%	
8h	Water sprinkling on roads to control airborne dust	water sprinkling on roads is proposed to control airborne dust	water sprinkling on roads is being carried out to control airborne dust	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	_____	_____	Plantation is being carried out in and around the mine to improve aesthetic beauty.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Returns submitted up to March,2023 Annual Returns submitted up to F.Y : 2021-22	Monthly Returns submitted up to March,2023 Annual Returns submitted up to F.Y : 2021-22	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager - Sri. S.Bramaiah Mining Engineer - Sri. Naresh Kumar Geologist - Sri. T.Venkata Ramarao	Manager - Sri. S.Bramaiah Mining Engineer - Sri. Naresh Kumar Geologist - Sri. T.Venkata Ramarao
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Openpit - 11.07 Ha Infrastructure & Roads - 2.81 Ha Afforestation - 8.7 Ha	Found to be in order
9d	Scrutiny of Annual return on afforestation	2370 within ML 11365 outside ML	Verified in the afforestation Register and found to be in order
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	NIL	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price and COP is reported as Rs.203.38/-	Found in order
9h	Scrutiny of Annual return on fixed assets	The value of fixed assets reported by the lessee in annual returns is Rs.195431461/-	Seems to be correct

9k Scrutiny of Annual return on mining machineries

Backhoe - 2 Nos.	Backhoe - 2 Nos.
Drilling machine - 1 No.	Drilling machine - 1 No.
Shovel - 1 No.	Shovel - 1 No.
Dozer - 1 No.	Dozer - 1 No.
Explosive van - 1No.	Explosive van - 1No.
Tipper - 11 Nos.	Tipper - 11 Nos.
Water tanker - 1 No.	Water tanker - 1 No.
Pump - 2	Pump - 2
Backhoe - 2 Nos.	
Drilling machine - 1 No.	
Shovel - 1 No.	
Dozer - 1 No.	
Explosive van - 1No.	
Tipper - 11 Nos.	
Water tanker - 1 No.	
Pump - 2	

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Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	18-APR-23			

Date : 18.4.2023 .

*Ch. Suseela*  
(Ch. Suseela)

Indian Bureau of Mines