

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT 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 : **M029**) **MADHU SUDHAN YADAV M**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri S. Brahmaiah, Manager (Mines), Sri.T.Venkata Ram
Official with
Designation
- (iv) Date of Inspection : 11/08/2022
- (v) Prev.inspection date : 08/11/2021

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 : **chtdmvs vsnl.com**
- Phone : **9698011144**
- (f) **Police Station** : **DACHEPALLI**
- (g) **First opening date** : **27/03/2019**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **Pedagarlapadu-Village,**
correspondance **Dachepalli-mandal,Guntur.**
AP
3. (a) **Lease Number** :
- (b) **Lease area** :
- (c) **Period of lease** :
- (d) **Date of Expiry** :
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 22/07/2014
Plan/Scheme of Mining : MP review under 17(1) MCR 2016 10/11/2020

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	2021-22 - 10 Nos.	2021-22 - 10 Nos. boreholes drilled	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	----	Drilling carried out by the lessee	
1d	Balance area to be explored to bring Geological axis in 1 or 2	-----	Entire mining lease area is covered under G1 level of exploration	
1e	Balance reserve as on 01/04/20	-----	Proved Mineral Reserves as on 01/04/2022 - 264.21 million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			Entire lease area is covered under G1 level of exploration.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N1828739 to N1829058 & E365511 to E365896	Work done within the proposed co-ordinates	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Only mineral benches proposed	Mineral benches developed	
2c	Stripping ratio or ore to OB ratio	No proposal	Nil	
2d	Quantity of topsoil generation in m3	2021-22 - 9594 cu.m	2021-22 - 9594 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 to utilise for plantation. No overburden generated in the mining area.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	2021-22 - 2800850 Te	2021-22 - 1677000 Te	
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	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	Drifling and blasting is Proposed in the mineral benches.	Wagon drill being used for drilling with a blast hole dia of 115 mm & depth of 7.7 m, spacing of 5 meters and burden of 4 meters. Blasting vrith slurry explosives with NONELS as initiating system. as initiating system.
3k	Provision of mining machineries in mineral benches	It was proposed to use wagon driIIIs, excavators & dumpers for drilling, loading & transporting of ore to crushing plant.	Wagon drills, dumpers & excavators are being used for drifling. load.ing & transportation of ore to crushing plant .
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	It was proposed to maintain the bench height of 7.5 meters.	Bench height is being within 7.5 m and digging height of the excavators are compatible with bench height.
3m	Total area covered under excavation/pits	37.91 Ha	11.07 Ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.002	Nil
3o	Total area put in use under different heads at the end of year	Open pit - 37.91 Ha Infrastructure - 6.01 Ha Plantation - 11.19 Ha	Open pit - 11.07 Ha Infrastructure - 2.81 Ha Plantation - 8.7 Ha
3p	Production of ROM mineral during the last five year period as applicable	2017-18 - 5000000 Te 2018-19 - 5000000 Te 2019-20 - 5000000 Te 2020-21 - 5000000 Te 2021-22 - 2800850 Te	2017-18 - Nil 2018-19 - Nil 2019-20 - Nil 2020-21 - 923000 Te 2021-22 - 1677000 Te

3q	General remarks of inspecting officers on method of mining etc.	Mining is carried out by fully mechanised method by deploying HEMM.
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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	Top soil dumped seperately	
4b	Location of topsoil, OB and mineral reject dumps	Topsoil to be stored near explosive magazine	Topsoil stored near explosive magazine	
4c	Number of dumps within lease area and outside of lease area	No proposal	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.	Nil	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 boundrary 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 pit is not mined out upto its ultimate plt limit to start backfilling.

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).	To be submitted	Submitted	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	2021-22 - 1.37 Ha	2021-22 - 1.37 Ha	
6d	No. of saplings planted during the year	2021-22 - 2000 Nos.	2021-22 - 2370 Nos.	
6e	Cumulative no .of plants	No proposal	11210 Nos.	

6f	Any other method of rehabilitation	No proposal	Nil
6g	Cost incurred on watch and care during the year	No proposal	Lessee has reported that Rs.512840/- spent for watch and care during the year 2021-22.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx 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 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 environmental monitoring of core and buffer zone.	Quarterly environmental monitoring carried out during 2021-22 and all the parameters are within the permissible limit.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			No area of pit has reached its ultimate pit limit to start Reclamation and Rehabilitation and backfilling activities.

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal	Nil	
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 and beneficiation issues			No sub grade has been generated. Beneficiation is not required as the entire ROM mineral is utilised for captive plant.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Topsoil to be removed and utilised seperately	Topsoil removed and utilised seperately	
8b	Concurrent use or storage of topsoil	Topsoil to be utilised for plantation	Topsoil utilised for plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	Nil	
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 operations (Pits, dumps etc)	No proposal	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed to plant 2000 Nos. of plantation at 1.37 Ha	2370 Nos. of plantation done at 1.37 Ha	
8g	Survival rate	70 %	90%	
8h	Water sprinkling on roads to control airborne dust	Proposed to sprinkle water by water tanker	Dust suppression done by sprinkling water with water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation is being caried out in and around the mine to improve aesthetic beauty

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	To be submitted	Submitted
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 - 37.91 Ha Infrastructure - 1.83 Ha Roads - 4.18 Ha Afforestation - 14.45 Ha	Openpit - 11.07 Ha Infrastructure & Roads - 2.81 Ha Afforestation - 8.7 Ha
9d	Scrutiny of Annual return on afforestation	2370 Nos.	Broadly as submission and same quantity is verified in afforestation register maintained.
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 is reported as Rs.203.38/-	Ex-mine price is Rs.203.38/-
9h	Scrutiny of Annual return on fixed assets	The value of fixed assets reported by the lessee in annual returns is Rs.195431461/-	Fixed asset could not be verified

9k	Scrutiny of Annual return on mining machineries	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 Nos.	Machineries found the mining area.
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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 31(1)	30/08/2022	16/09/2022			
MCDR17	Rule 45(5)(c)	30/08/2022	16/09/2022			

Date :

(MADHU SUDHAN YADAV M)

Indian Bureau of Mines