

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

**MCDR inspection REPORT**

**Hyderabad regional office**

**Mine file No :** AP/GNR/LST-21/HYD

**Mine code :** 38APR07013

- (i) Name of the Inspecting : **K007** ) **SHAIVAL KARTIKEYA**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri B. Gurusekhar Reddy, AGM & Manager (Mines)  
Official with  
Designation
- (iv) Date of Inspection : 01-FEB-23
- (v) Prev.inspection date : 17-MAR-22

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **PETASANNIGANDLA**
- (b) **Registration NO.** :
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address  
State : ANDHRA PRADESH  
District : GUNTUR  
Village : PETASANNIGANDLA  
Taluka : GURUZALA  
Post office : KAREMPUDI  
Pin Code : 522614  
FAX No. :  
E-mail :  
Phone : 08649-272254
- (f) Police Station : KARAMPUDI
- (g) First opening date : 21-DEC-82
- (h) Weekly day of rest : SUN
2. Address for : PETASANNIGANDLA Limestone MINE  
correspondance : KARAMPUDI  
GUNTUR DIST
3. (a) Lease Number : APR1340  
(b) Lease area : 202.35  
(c) Period of lease : 20  
(d) Date of Expiry : 23-DEC-02
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : M/S SRI CHAKRA CEMENTS LTD  
 H.NO 6-3-668/10/66  
 P.B.NO.33, PUNJAGUTTA,  
 DURGANAGAR COLONY HYDERABAD  
 TELANGANA  
 Phone:3318939,65023474  
 FAX :040-3318938

Owner : SRI CHAKRA CEMENTS LTD  
 H.NO 6-3-668/10/66  
 P.B.NO.33, PUNJAGUTTA,  
 DURGANAGAR COLONY, HYD  
 GUNTUR ANDHRA PRADESH  
 Phone:  
 FAX :

Agent : D.V.D.S.N.Murthy  
 Sri Narasimhapuri(po)  
 Karampudi(M) Guntur Dist.  
 GUNTUR ANDHRA PRADESH  
 Phone:  
 FAX :

## Manager

Name : B.GURUSEKHAR REDDY  
 Qualification : DIPLOMA IN MINING  
 Appointment/ :  
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	03-MAR-05
Plan/Scheme of Mining	:	Modif.approved Mining Scheme	20-FEB-07
	:	Mining Scheme rule 12 MCDR1988	22-JUL-09
	:	MP review under 17(1) MCR 2016	16-JAN-18
	:	MP review under 17(1) MCR 2016	06-MAY-22

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal.	Nil.	65.62 Ha. potentially mineralized area has been converted in G1 level of exploration during F.Y. 2017-18 to 2021-22.
1b	Exploration over lease area for geological axis 1 or 2	No proposal.	Nil.	-
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.	G4: 35.27 Ha potentially mineralized area is remaining for detailed exploration. Violation has been pointed out.
1e	Balance reserve as on 01/04/20	Balance reserves as on 01.04.2022 Under (111): 40.089 Million Tonnes	Balance reserves as on 01.04.2022 Under (111): 40.089 Million Tonnes	Updated reserves has been obtained from the latest approved Review of Mining Plan dated 06/05/2022  Average Grade: CaO: 46.63% SiO <sub>2</sub> : 12.97

1f	General remarks of inspecting officers on geology, exploration etc	The geological setup of the region is part of Kurnool system which is regarded as equivalent to the Lower Vindhya (Semri Series) of the Sone and Narmada Vally in the standard Indian Stratigraphy. The area forms a part of Palnad Basin comprising Precambrian Proterozoic Strata. Lithounits belonging to the Jammalamadugu series of kunool system and co-relatable to Narji limestone formation occurs in and around the lease area.	The limestone formation has an estimated thickness of about 100 meters in the Palnad basin but not all of it is useable as raw material for cement manufacturing. The carbonate rocks do manifest litho-facies variation both along and across the strike.	The lease area and its surrounding constitute a portion of the western end of the Palnad Sub-basin of Late Proterozoic sediments; the later in turn forms a part of the NE corner of the "Kadapa Basin" This is a conspicuous entity in Indian Geology and is the repository of vast thickness of marine sediments of Proterozoic age, comprising the "Kadapa" Super Group" and "Kurnool/Palnad" Group of rocks. The general strike of the formations varies from NE-SW with dip 2-5 degree due south.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	F.Y. 2021-22: In between local co-ordinates N1400 to N1800 and E2400 to E2800	F.Y. 2021-22: In between local co-ordinates N1400 to N1800 and E2400 to E2800	Broadly development and production have been carried out within the proposed co-ordinates.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Topsoil: Nil OB/Waste: Nil Mineral/Ore: 08 nos.	Topsoil: Nil OB/Waste: Nil Mineral/Ore: 08 nos.	Intercalated waste is present in 2 to 3 top benches.
2c	Stripping ratio or ore to OB ratio	1 : 0.10	1 : 0.016	-
2d	Quantity of topsoil generation in m3	No proposal.	Nil.	-
2e	Quantity of overburden generation in m3	34342.70 CuM	8867.50 CuM	-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The development and production is being done through fully mechanized means.

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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01 no.	01 no.	-
3b	Quantity of ROM mineral production proposed	772710.75 Metric Tonnes	535001.90 Metric Tonnes	-
3c	Recovery of sailable/usable mineral from ROM production	90%	90%	10% intercalated waste is present.
3d	Quantity of mineral reject generation	No proposal.	Nil.	-
3e	Grade of mineral rejects generation and threshold value declared.	No proposal.	Nil.	-
3f	Quantity of sub grade mineral generation.	No proposal.	Nil.	-
3g	Grade of sub grade mineral generation	No proposal.	Nil.	-

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3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised crushing and screening have been proposed.	Mechanised crushing and screening have been proposed.	-
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	-do-	-do-	-
3j	Provision of drilling and blasting in mineral benches	Diameter: 115 mm Burden: 3.00 m Spacing: 5.00 m Depth: 7.70 m Explosive: ANFO	Diameter: 115 mm Burden: 3.00 m Spacing: 5.00 m Depth: 7.70 m Explosive: ANFO	-
3k	Provision of mining machineries in mineral benches	1. Compressor 01 no. with 486 CFM capacity. 2. Wagon Drill 01 no. with 115mm bit diameter. 3. Back Hoe 02 nos. with 0.90 CuM and 1.70 CuM bucket capacity. 4. Pay Loader (Front End) 01 no. with 1.5 CuM bucket capacity. 5. Dumpers 03 nos. with 25.0 Metric Tonnes carrying capacity. 6. Primary Crusher 01 no. 275 Tonnes/Hour capacity. 7. Secondary Crusher 02 nos. with 150 Tonnes/Hour capacity.	1. Back Hoe 02 nos. with 0.90 CuM and 1.70 CuM bucket capacity. 2. Wheel Loader 01 no. with 1.7 CuM bucket capacity. 3. Truck 03 nos. with 25.0 Metric Tonnes capacity. 4. Air Compressor 01 no. with 10.0 CuM/Mn capacity. 5. Rock Drill Machine 01 no. with 115.0 MM bit diameter. 6. Primary Crusher 01 no. with 250.0 TPH capacity. 7. Secondary Crusher 02 nos. with 150 TPH capacity.	-

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	OB/Waste: Nil. Mineral/Ore: 06 m to 8.0 m	OB/Waste: Nil. Mineral/Ore: 06 m to 8.0 m	-
3m	Total area covered under excavation/pits	26.114 Ha. up to end of F.Y. 2021-22.	26.114 Ha. up to end of F.Y. 2021-22.	-
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.10	1 : 0.016	-
3o	Total area put in use under different heads at the end of year	Pit: 26.114 Ha. Waste/reject- 3.022 Ha. Others- 13.90 Ha. Up to end of F.Y. 2021-22	Pit: 26.114 Ha. Waste/reject- 3.022 Ha. Others- 13.902 Ha. Up to end of F.Y. 2021-22	-
3p	Production of ROM mineral during the last five year period as applicable	Yr. 2017-18: 373133.25 Metric Tonnes Yr. 2018-19: 714627.00 Metric Tonnes Yr. 2019-20: 726360.75 Metric Tonnes Yr. 2020-21: 751385.25 Metric Tonnes Yr. 2021-22: 772710.75 Metric Tonnes	Yr. 2017-18: 575447.59 Metric Tonnes Yr. 2018-19: 623387.84 Metric Tonnes Yr. 2019-20: 444199.88 Metric Tonnes Yr. 2020-21: 535001.90 Metric Tonnes Yr. 2021-22: 610637.00 Metric Tonnes	-
3q	General remarks of inspecting officers on method of mining etc.			Mining has been carried out through the opencast method with fully mechanized means using conventional drilling and blasting.

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Solid Waste Management - Dumping:

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Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposal has been given in the approved document for separate dumping of waste in between local co-ordinates N1330 to N1495 and E2600 to E2960	Separate dumping of waste has been done in between local co-ordinates N1330 to N1495 and E2600 to E2960	-
4b	Location of topsoil, OB and mineral reject dumps	OB/Waste Dump: In between local co-ordinates N1330 to N1495 and E2600 to E2960	OB/Waste Dump: In between local co-ordinates N1330 to N1495 and E2600 to E2960	-
4c	Number of dumps within lease area and outside of lease area	01 no.	01 no.	01 no. of Old dump was found in between local co-ordinates N1440 to N1495 and E2225 to E2275
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed beyond ultimate pit limit.	Existing dump present beyond ultimate pit limit.	-
4e	Number of active and alive dumps.	01 no.	01 no.	-
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.	The existing protective measures taken around the Waste Dump no. 1 are insufficient and it was found that the waste material were falling from the waste dump slopes. Violation has been pointed out.
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	Nil.
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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	F.Y. 2021-22: 0.60 Ha. area will be utilized for plantation of 1500 nos. of saplings.	F.Y. 2021-22: 0.60 Ha. area has been utilized for plantation of 1500 nos. of saplings.	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Nil.

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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).	As per rule 26(2), lessee has to submit the annual report before 1st day of July of every year.	Annual report on PMCP for F.Y. 2021-22 is not submitted.	Violation has been pointed out.

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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 ( 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	1500 nos.	1500 nos.	-
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.60 Ha.	0.60 Ha.	-
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	By plantation	By plantation	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposal has been given in the approved document for regular monitoring of the environmental parameters in the core and buffer zone.	Being done as per proposal.	All the parameters are within the permissible limits.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Nil.

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#### Mineral Conservation:

Sl.No.	Item	Propasals	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			Nil.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal.	Nil.	-
8b	Concurrent use or storage of topsoil	No Proposal.	Nil.	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposal has been given in the approved document for separate dumping of waste in between local co-ordinates N1330 to N1495 and E2600 to E2960	Separate dumping of waste has been done in between local co-ordinates N1330 to N1495 and E2600 to E2960	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal.	Nil.	-

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8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	F.Y. 2021-22: 0.60 Ha. area will be utilized for plantation of 1500 nos. of saplings.	F.Y. 2021-22: 0.60 Ha. area has been utilized for plantation of 1500 nos. of saplings.	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1500 nos. of saplings will be planted over 0.60 Ha. area.	1500 nos. of saplings have been planted over 0.60 Ha. area.	-
8g	Survival rate	No Proposal.	Approximate 50%	-
8h	Water sprinkling on roads to control airborne dust	Proposal has been given in the approved document for water sprinkling on roads to control airborne dust through the water tanker.	Being done as per proposal.	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Nil.

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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 February 2023 A. R. Submitted up to F.Y. 2021-22	M.R. Submitted up to February 2023 A. R. Submitted up to F.Y. 2021-22	Nil.

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager: Shri B. Guru Sekhar Reddy Mining Engineer: Shri G. Ramesh Geologist: Not given.	Manager: Shri B. Guru Sekhar Reddy Mining Engineer: Shri G. Ramesh Geologist: Shri N. V. SP. L. Ravikanth	Nil.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit: 26.114 Ha. Waste/reject- 3.022 Ha. Others- 13.902 Ha.	Pit: 26.114 Ha. Waste/reject- 3.022 Ha. Others- 13.902 Ha.	Nil.
9d	Scrutiny of Annual return on afforestation	Within Lease area: 1500 nos. with 50% survival rate.	Within Lease area: 1500 nos. with approx. 50% survival rate.	Nil.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral-reject: NIL Grade: NIL	Mineral-reject: NIL Grade: NIL	Nil.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing Stock ROM: NIL Graded Ore (Cement Grade): 9485.00 Metric Tonne	Closing Stock ROM: NIL Graded Ore (Cement Grade): 9485.00 Metric Tonne	Nil.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value: Nil. Ex-mine Price: Rs. 217.00 Per Metric Tonne Cost of Production: Rs. 217.00 Per Metric Tonne	Sale value: Nil. Ex-mine Price: Rs. 217.00 Per Metric Tonne Cost of Production: Rs. 217.00 Per Metric Tonne	Irrespective of month wise production quantity of limestone, similar Ex-mine price have been reported in the Monthly Returns from April 2022 to December 2022. Violation has been pointed out.
9h	Scrutiny of Annual return on fixed assets	Rs. 605784329/-	Rs. 605784329/-	Nil.

9k	Scrutiny of Annual return on mining machineries	1. Back Hoe 02 nos. with 0.90 CuM and 1.70 CuM bucket capacity. 2. Wheel Loader 01 no. with 1.7 CuM bucket capacity. 3. Truck 03 nos. with 25.0 Metric Tonnes capacity. 4. Air Compressor 01 no. with 10.0 CuM/Mn capacity. 5. Rock Drill Machine 01 no. with 115.0 MM bit diameter. 6. Primary Crusher 01 no. with 250.0 TPH capacity. 7. Secondary Crusher 02 nos. with 150 TPH capacity.	1. Back Hoe 02 nos. with 0.90 CuM and 1.70 CuM bucket capacity. 2. Wheel Loader 01 no. with 1.7 CuM bucket capacity. 3. Truck 03 nos. with 25.0 Metric Tonnes capacity. 4. Air Compressor 01 no. with 10.0 CuM/Mn capacity. 5. Rock Drill Machine 01 no. with 115.0 MM bit diameter. 6. Primary Crusher 01 no. with 250.0 TPH capacity. 7. Secondary Crusher 02 nos. with 150 TPH capacity.	Cross verified from the machinery logbooks.
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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 12(4)	16-FEB-23			
MCDR17	Rule 14(3)	16-FEB-23			
MCDR17	Rule 26(2)	16-FEB-23			
MCDR17	Rule 33	16-FEB-23			
MCDR17	Rule 37(2)	16-FEB-23			
Rule 55		16-FEB-23			

**Date :**

**(SHAIVAL KARTIKEYA)**

Indian Bureau of Mines