

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

**MCDR inspection REPORT**

**Hyderabad regional office**

**Mine file No :** AP/KSN/LST-25/HYD

**Mine code :** 38APR10026

- (i) Name of the Inspecting : **M029** ) **MADHU SUDHAN YADAV M**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Jani Reddy, Agent  
Official with  
Designation
- (iv) Date of Inspection : 19/12/2019
- (v) Prev.inspection date : 15/07/2018

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **RAVIRALA**
- (b) **Registration NO.** : **IBM/638/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : ANDHRA PRADESH
- District : KRISHNA
- Village : JAYANTHIPURAM
- Taluka : JAGGAYYAPETA
- Post office : KUMARASAMYRAJA
- Pin Code : 521457
- FAX No. : 08654-222532
- E-mail : mcljpm@madrascements.co.in
- Phone : 08654-224400
- (f) Police Station : JAGGAYYAPETA
- (g) First opening date : 25/06/2003
- (h) Weekly day of rest : SUN
2. Address for : THE RAMCO CEMENTS LIMITED,  
correspondance : kUMARASWAMY RAJA NAGAR,  
JAGGAYYAPETA, KRISHNA DIST.
3. (a) Lease Number : APR1204
- (b) Lease area : 124.33
- (c) Period of lease : 50
- (d) Date of Expiry : 30/09/2047
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : THE RAMCO CEMENTS LTD  
 KUMARASWAMY RAJANAGAR  
 JAGGAYAPET MANDAL KRISHNA  
 ANDHRA PRADESH  
 Phone:08654-224400  
 FAX :08654-222532

Owner : THE RAMCO CEMENTS LIMITED.  
 KUMARASAMY RAJA NAGAR-  
 5217457, JAGGAYAPET  
 MANDAL, KRISHNA DISTRICT.  
 KRISHNA ANDHRA PRADESH  
 Phone:  
 FAX : 08654-222532

Agent : P JANI REDDY  
 KUMARASWAMY .RAJA.NAGAR,  
 JAYATNTHIPURAM KRISHNA  
 DISTRICT KRISHNA ANDHRA  
 PRADESH  
 Phone: 08654-224400  
 FAX : 08654-222532

## Mining Engineer

Name : P VIDYA KIRAN, Full Time  
 Qualification : B TECH MINING  
 Appointment/ : 04/07/2007  
 Termination date

## Geologist

Name : B RAJU, Full Time  
 Qualification : MSC GEOLOGY  
 Appointment/ : 02/03/2006  
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Modif.of approved Mining Plan	31/07/2001
		Mining Scheme rule 12 MCDR1988	13/05/2008
		Mining Scheme rule 12 MCDR1988	21/10/2013
		MP modif under 17(3) MCR 2016	13/11/2017
		MP modif under 17(3) MCR 2016	26/02/2019

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Not Applicable	Not Applicable	
1b	Exploration over lease area for geological axis 1 or 2	Not applicable	Not applicable	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not applicable	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20	Ason 31.03.2019 - 14.21 Million tonnes As on 30.11.2019 - 13.12 Million tonnes	Ason 31.03.2019 - 14.21 Million tonnes As on 30.11.2019 - 13.12 Million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	E-408000 to E-408700 N-1861600 to N-1862100	E-408000 to E-408700 N-1861600 to N-1862100	Work done as per proposal
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	OB: Top & I bench Mineral : I,II, III, IV & V,IV Benches	OB: Top & I bench Mineral : I,II, III, IV & V,IV Benches	Work done as per proposal
2c	Stripping ratio or ore to OB ratio	1:0.22	1:0.20	

2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	2018-19 - 208480Cu.M 2019-20 - 107197 Cu.M	2018-19 - 107078Cu.M 2019-20 - 60053 Cu.M (upto Nov-19)	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mechanised opencast method of mining is being carried out

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**Exploitation:**

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1 Pit	1 Pit	
3b	Quantity of ROM mineral production proposed	2018-19 - 1204095 mT 2019-20 - 1202065 mT	2018-19 - 1199500 mT 2019-20 - 742666 mT (upto Nov-19)	
3c	Recovery of sailable/usable mineral from ROM production	100 %	100 %	Captive Consumption.
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	Not carrying out	

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3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	
3j	Provision of drilling and blasting in mineral benches	Conventional deep hole drilling and blasting	Crawler mounted cabin drill - 115mm, 8.5m (max.)depth. ANFO- coloumn charge (80%) Slurry - 20% (cartridge) Class-2, 83mm dia, NONELS.	115 mm dia crawler mounted drilling machine, Spacing=4 m to 4.5m. Burden=3 m. Depth=8.5 m.
3k	Provision of mining machineries in mineral benches	Type of Machinery Capacity of each unit Backhoe Excavators 2.0 Cu.m Tippers 25 MT Cabin Drills 115 mm dia., 550 cfm (air compressor) Bull Dozer 320HP Water ranker 10 KL Jeep ---	Type of Machinery Capacity of each unit Backhoe Excavators 2.0 Cu.m Tippers 25 MT Cabin Drills 115 mm dia., 550 cfm (air compressor) Bull Dozer 320HP Water ranker 10 KL Jeep ---	Drilling machine is replaced with new one.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	Complied with the provisions of Rule 106 (2) (b) of MMR 1961.
3m	Total area covered under excavation/pits	28.46 Ha	28.46 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	2018-19 - 1:0.51 2019-20 - 1:0.22	2018-19 - 1:0.22 2019-20 - 1:0.20 (upto Nov'19)	
3o	Total area put in use under different heads at the end of year	49.65	44.67	

3p	Production of ROM mineral during the last five year period as applicable	2014-15 - 1072664M.T 2015-16 - 1015273M.T 2016-17 - 1129500M.T 2017-18 - 1040668M.T 2018-19 - 1204095M.T	2014-15 - 820600 M.T 2015-16 - 536000 M.T 2016-17 - 397000 M.T 2017-18 - 526164 M.T 2018-19 - 1199500 M.T
3q	General remarks of inspecting officers on method of mining etc.		

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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)	1. There is not topsoil and mineral reject. 2. OB dumping seperately.	1. There is not topsoil and mineral reject. 2. OB dumping seperately.	
4b	Location of topsoil, OB and mineral reject dumps	1. There is not topsoil and mineral reject. 2. OB dumping - E-407700 to E-407900 and N-1862100 to N-1862400. Dump top 80RL and bottom 50 RL in three terrace. 3. Temporary Dump - E-408800 to E-409000 and N-1861600 to N-1861900 Dump top 65RL bottom and 55RL in one terrace.	1. There is not topsoil and mineral reject. 2. OB dumping - E-407700 to E-407900 and N-1862100 to N-1862400. 3. Temporary Dump - E-408800 to E-409000 and N-1861600 to N-1861900. Dump top 65RL bottom and 55RL in one terrace.	
4c	Number of dumps within lease area and outside of lease area	2 Dumps	2 Dumps	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	i)OB dumping in West side of Mining Lease ii)Temporary Dump South East side Mining Lease	i)OB dumping in West side of Mining Lease ii)Temporary Dump South East side Mining Lease	
4e	Number of active and alive dumps.	2	2	
4f	Number of dead dumps.	0	0	
4g	Number of dumps established.	0	0	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dumps	Garland drain and retaining bund is proposed.	No Garland drain and retaining bund is proposed.	Violation issued as per rule.
4j	Number of settling ponds	1	1	
4k	Specific comments of inspecting officer on waste dump management			

#### 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.	Not applicable	Not applicable	
5b	Area under backfilling of mined out area	Not applicable	Not applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not applicable	Not applicable	

5d	Total area fully reclaimed and rehabilitated	Not applicable	Not applicable
5e	General remarks of inspecting officers on backfilling and reclamation etc.		

## Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Submitted in time	Submitted in time	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	2018-19 - 0.10 Ha 2019-20 - 0.10 Ha	2018-19 - 0.50 Ha 2019-20 - 0.10 Ha	Plantation done all along the lease boundary and dump.
6d	No. of saplings planted during the year	2018-19 - No proposal 2019-20 - 150 Nos.	2018-19 - 925 Nos. 2019-20 - 150 Nos (upto Nov'19)	
6e	Cumulative no .of plants	No proposal	2018-19 - 10407 Nos. 2019-20 - 11557 Nos. (upto Nov'19)	
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	Rs.50000	Rs.50000	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Not Applicable	Not Applicable	



6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Season Wise Monitoring to be done	Quarterly monitoring is being done and reports are being submitted.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir		
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.		
6m	Compliance of rehabilitation of waste land within lease (i) afforestation		
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)		
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation		
6p	Compliance of environmental monitoring (core zone and buffer zone)		

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Mineral Conservation:

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Sl.No.	Item	Proposals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	2018-19 - 1204095M.T 2019-20 - 1101893MT	2018-19 - 1199500 M.T 2019-20 - 742666 MT
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		

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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)	OB Dumps - 2 Nos. Mineral reject - Nil	OB Dumps - 2 Nos. Mineral reject - Nil	
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)	No proposal	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Yes	Yes
8g	Survival rate	100%	94%
8h	Water sprinkling on roads to control airborne dust	One mobile water sprinkler with spraying arrangement will be used for dust suppression on haul roads.	One mobile water sprinkler with spraying arrangement will be used for dust suppression on haul roads.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Good

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Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted within time		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer : P.Vidya Kiran Geologist : B.Raju Mines Manager : P. Vidya Kiran	Mining Engineer : P.Vidya Kiran Geologist : B.Raju Mines Manager : P. Vidya Kiran	As per 2018-19 Annual returns

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current workings : 28.46 Ha. Reclamation : 0.00 Used waste disposal : 9.03Ha. Occupied by Plants and buildings &Roads : 4.03 Ha. Others : 7.51 Ha.	Covered under current workings : 28.46 Ha. Reclamation : 0.00 Used waste disposal : 9.03Ha. Occupied by Plants and buildings &Roads : 4.03 Ha. Others : 7.51 Ha.	
9d	Scrutiny of Annual return on afforestation	925 Nos.	925 Nos.	
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	Sale Value is 0. Ex. Mine Price Per tonne - Rs214.28/-	Sale Value is 0. Ex. Mine Price Per tonne - Rs214.28/-	Captive Consumption
9h	Scrutiny of Annual return on fixed assets	Closing Balance : 200202638	Closing Balance : 200202638	
9k	Scrutiny of Annual return on mining machineries	Excavator - 2 Dozer-1 Tippers - 11 Water Tanker - 1 Blast hole Drill -1 Compressor- 1	Excavator - 2 Dozer-1 Tippers - 11 Water Tanker - 1 Blast hole Drill -1 Compressor- 1	New drilling machine installed.

**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)	05/02/2020			

**Date :**

**(MADHU SUDHAN YADAV M)**

Indian Bureau of Mines