

**INDIAN BUREAU OF MINES  
MINERALS DEVELOPEMMENT 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 : S11 ) SHAILENDRA KUMAR  
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Sri Jani Reddy Agent(Mines)  
Official with  
Designation
- (iv) Date of Inspection : 25/02/2022
- (v) Prev.inspection date : 08/09/2021

**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 correspondance** : THE RAMCO CEMENTS LIMITED,  
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 SHASHANK, Full Time  
 Qualification : B TECH MINING  
 Appointment/ : 16/12/2021  
 Termination date

## Geologist

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

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	31/07/2001
Plan/Scheme of Mining		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
		MP modif under 17(3) MCR 2016	16/03/2020

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	-----	There is no backlog for exploration.	None
1b	Exploration over lease area for geological axis 1 or 2	There is no proposal for exploration during the year 2020-21.	No exploration was carried out during the year 2020-21.	The entire lease area is covered under g1 level.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None	None	None
1d	Balance area to be explored to bring Geological axis in 1 or 2	None	None	None
1e	Balance reserve as on 01/04/20	---	The reserves as on 01.04.2021 are 21 Million tonnes.	None
1f	General remarks of inspecting officers on geology, exploration etc	No exploration was proposed during the year 2020-21	No exploration was carried out during the year 2020-21.	The entire lease area covered under G1 level. The Ravirala Limestone Mining lease area lies in the north-eastern margin of the Palnad Sub-basin of the Kurnool sedimentary basin overlying the Cuddapah Super Group of rocks. The Cuddapah group of rocks are in turn deposited over the Archean basement. Limestone occurring in this area is in shades of grey or white, fine grained, hard and compact with shale partings. The limestone show typical bedded nature with varying thickness.

## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It was proposed to develop the mine between gridlines E408485 to E408680 & N1861730 to N1861910	The mine development being carried out as proposed.	None
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	One bench in OB and five benches in Mineral	The same was noticed duirng the inspection.	None
2c	Stripping ratio or ore to OB ratio	1:0.11	1:0.10	None
2d	Quantity of topsoil generation in m3	None	None	None
2e	Quantity of overburden generation in m3	116274 Cu.meters	40789 cu.meters	None
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	None	None	The development of Mine being carried out as proposed.

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit	One pit	None
3b	Quantity of ROM mineral production proposed	2 Million tonnes duirng the year 2020-21	The actual production reported duirng the year 2020-21 was 0.79 Million tonnes	None
3c	Recovery of sailable/usable mineral from ROM production	None	None	None
3d	Quantity of mineral reject generation	None	None	None
3e	Grade of mineral rejects generation and threshold value declared.	None	None	None

3f	Quantity of sub grade mineral generation.	None	None	None
3g	Grade of sub grade mineral generation	None	None	None
3h	Manual / Mechanised method adopted for segregating from ROM	None	None	None
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None	None	None
3j	Provision of drilling and blasting in mineral benches	It was proposed to carry out deep hole drilling and blasting in the mineral benches.	Deep hole drilling by wagon drill of 115 mm dia and blasting with a spacing of 4.5 meters, Burden of 3 meters and depth 8 meters.	None
3k	Provision of mining machineries in mineral benches	It was proposed to use HEMM for excavation and loading of mineral.	The same was noticed during the inspection.	None
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	it was proposed to maintain a height of 8 meters.	* meters height was noticed during the inspection.	None
3m	Total area covered under excavation/pits	30.86 ha	28.46 ha	None
3n	Ore to OB ratio for the pit/mine during the year.	1:0.11	1:0.10	None
3o	Total area put in use under different heads at the end of year	44.50 ha	43.76 ha	None

3p	Production of ROM mineral during the last five year period as applicable	2016-17 - 1.12 Million tonnes	2016-17 - 0.39 Million tonnes	There is no deviation in the actual production reported vis-a-vis proposed quantities.
		2017-18 - 1.04 Million tonnes	2017-18 - 0.52 Million tonnes	
		2018-19 - 1.20 Million tonnes	2018-19 - 1.19 Million tonnes	
		2019-20 - 1.20 Million tonnes	2019-20 -1.18 Million tonnes	
		2020-21 - 2.0 Million tonnes	2020-21 -0.79 Million tonnes	

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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)	It was proposed to developa seperate dump duiring the current plan period.The proposed dump is to developed between gridlines E408800 - E409000 and N1861680 to N1861900.	The dump being developed as proposed.	None
4b	Location of topsoil, OB and mineral reject dumps	One dump on Eastern side of the lease and one old dump on western side of the lease.	During the inspection it was observed that the development of dumps is as proposed.	None
4c	Number of dumps within lease area and outside of lease area	Two dumps within lease area	Two dumps within lease area.	None
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	It was proposed to develop the dumps outside the UPL.	Both the dumps developed outside the UPL.	None
4e	Number of active and alive dumps.	One active dump.	One active dump.	None
4f	Number of dead dumps.	One dump	One dump.	None
4g	Number of dumps established.	Two dumps	two dumps	None

4h	Whether Retaining wall or garland drain all along dumps are there.	It was proposed to construct a bund around the active dump on eastern side and retaining wall around the passive dump on western side.	No such bund or retaining wall constructed.	A violation was issued for the same.
4i	Length of Retaining wall or garland drain all along dumps	It was proposed to construct a bund and one retaining wall of dimensions 600 m x 8 m x 10 m	No such bund or retaining wall constructed.	A violation for the same issued to lessee.
4j	Number of settling ponds	None	None	None
4k	Specific comments of inspecting officer on waste dump management	None	None	It was proposed to construct the bund and retaining wall all along the two dumps. However, the same was not constructed and a violation for the same was issued.

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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.	None	None	No area matured for reclamation.
5b	Area under backfilling of mined out area	None	None	None
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	None	None	None

5d	Total area fully reclaimed and rehabilitated	None	None	None
5e	General remarks of inspecting officers on backfilling and reclamation etc.	None	None	None

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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).	---	The Annual report on PMCP submitted in time and correctly.	None
6b	Area available for rehabilitation (ha) .	it was proposed to afforest during the year an extent of 0.30 ha	0.30 ha	None
6c	afforestation done (ha).	0.30 ha	0.30 ha	None
6d	No. of saplings planted during the year	500 no.s	2135 no.s	None
6e	Cumulative no .of plants	---	16902 no.s	None
6f	Any other method of rehabilitation	None	None	None
6g	Cost incurred on watch and care during the year	---	It was reported by the lessee that an expenditure of Rs.9,84,922/- was incurred duirng the year 2020-21 towards watch and ward.1`	None
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	None	None	None



6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	None	None	None
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	None	None	None
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	None	None	None
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	None	None	None
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	None	None	None
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	None	None	None
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	None	None	None
6p	Compliance of environmental monitoring (core zone and buffer zone)	It was proposed to monitor environmental parameters during every quarter.	Quarterly monitoring of environmental parameters being carried out regularly and environmental parameters found to be within permissible limits.	None

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	None	None	All the proposed measures for protection of environment in Progressive Mine closure being implemented as proposed.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	The Limestone up to cut off grade will be seggregated and dispatched to crusher and later to cement plant of lessee.	The entire ROM produced above the cut off grade being utilised in the cement plant of lessee.	None
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	None	None	None
7c	Different grade of mineral sorted out at mines.	None	None	None
7d	Any beneficiation process at mines	None	None	None
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	None	None	None

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	None	None	None

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8b	Concurrent use or storage of topsoil	None	None	None
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	It was proposed to maintain a dump on the eastern side of the lease during the present plan period.	A separate dump on the Eastern side of the lease was noticed.	None
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	None	None	None
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	None	None	None
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	-----	Except for the plantation made by the lessee there is no other vegetation except few bushes.	None
8g	Survival rate	90%	87%	None
8h	Water sprinkling on roads to control airborne dust	It was proposed to use water sprinkling for dust suppression.	The same was noticed during the inspection.	None
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	None	None	None

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Compliance of Rule 45:

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Sl.No.	Item	Proposals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	----	The Annual and Monthly returns being submitted regularly by the lessee.	None
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	As per the Annual return 2020-21, Sri B. Shashank and Sri B. Raju are reported as Mining Engineer and Geologist respectively.	The same was noted during the inspection.	None
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	---	Area under Pit - 28.46 ha Area under waste dump - 10.89 ha Area under Infrastructure - 4.03 ha	None
9d	Scrutiny of Annual return on afforestation	3210 no.s	3210 no.s	None
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	None	None	None
9f	Scrutiny of Annual return on ROM stock and/or graded ore	7,92,000 tonnes during the year 2020-21.	The same was noticed.	None
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The ex-mine price reported was 215.32/- per tonne during the year 2020-21.	Same was confirmed during the inspection.	None
9h	Scrutiny of Annual return on fixed assets	2.22 crores during the year 2020-21	The same was not verified.	None

9k	Scrutiny of Annual return on mining machineries	As per Annual return 2020-21, following mining machineries were reported during the year 2020-21: 1. Two Back hoe 2. One dozer. 3. 12 Tippers 4. One Air compressor 5. One Wagon drill 6. One water tanker.	The same was observed during the inspection.	None
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**Details of violations observed during current inspection and compliance position of violation pointed out**

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	10/03/2022			

**Date :**

**(SHAILENDRA KUMAR)**

Indian Bureau of Mines