

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

**MCDR inspection REPORT**

**Hyderabad regional office**

**Mine file No :** AP/KSN/LST-15/HYD

**Mine code :** 38APR10015

- (i) Name of the Inspecting : S11 ) SHAILENDRA KUMAR  
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Sri Jani Reddy, Rep. of Lessee  
Official with  
Designation
- (iv) Date of Inspection : 18/09/2019
- (v) Prev.inspection date : 17/07/2018

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : JAYANTHIPURAM MS NO 71
- (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 : JAGGAYYAPET
- Post office : KUMARASWAMYRAJA NAGAR
- Pin Code : 521457
- FAX No. : 08654-222532
- E-mail : mcljpm@madrascements.co.in
- Phone : 08654-224400 to 09
- (f) **Police Station** : CHILLAKALLU
- (g) **First opening date** : 16/05/1986
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : JAYANTIPURAM LIMESTONE MINE  
JAYANTIPURAM, CHILLAKALLU (M)  
KRISHNA DIST.
3. (a) **Lease Number** : APR0125
- (b) **Lease area** : 18.64
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 19/08/2011
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 : P.R.VENKATRAMA RAJA  
 AURAS CORPORATE CENTRE, Vth  
 FLOOR, Dr.RADHAKRISHNA  
 ROAD,MYLAPORE, CHENNAI  
 CHENNAI CITY TAMIL NADU  
 Phone: 044-28478666  
 FAX : 044-28478676

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

## Mining Engineer

Name : KHAJA ASHRAF ALI,Full Time  
 Qualification : B.E(Mining)  
 Appointment/ : 01/08/2017  
 Termination date

## Geologist

Name : P.SURYANARAYANA MURTHY,Full Time  
 Qualification : M.Sc  
 Appointment/ : 11/06/1992  
 Termination date

## Manager

Name : S.VENKATESWARA REDDY  
 Qualification : FCC  
 Appointment/ : 01/08/2017  
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	13/05/2002
Plan/Scheme of Mining		Modif.of approved Mining Plan	18/06/2003
		Renewal under rule 24 MCR1960	07/04/2006
		Modif.approved Mining Scheme	17/10/2014
		MP modif under 17(3) MCR 2016	22/09/2016

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	There was no proposal for exploration during 2018-19	No exploration carried out during 2018-19	None
1b	Exploration over lease area for geological axis 1 or 2	None	None	None
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	---	36.34 million tonnes	none
1f	General remarks of inspecting officers on geology, exploration etc	---	The total potentially mineralised zone is covered under g1 scale of exploration. The lease area is slightly undulating with dip of 12-15 degrees	None

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	It was proposed to work between E405600-N1866100 and E406200 and N1865700 for pit-1 and E404800-N186630 and E405200-N186200 for pit-2	It was observed that the development of mine is as per the proposals submitted in the approved mining plan.	two pits were observed during the inspection with following dimensions: Pit no.11388x5056x56 meters pit-2 650x285x47 meters
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in OB were proposed with a height of 8 meters	Two benches in OB with a height of 8 meters observed during inspection.	None

2c	Stripping ratio or ore to OB ratio	0.29	0.21	None
2d	Quantity of topsoil generation in m3	No topsoil generated during the year 2018-19 and no proposal was also there.	No topsoil was generated during the year 2018-19	None
2e	Quantity of overburden generation in m3	It was proposed to generate about 483764 Cum of OB during the year 2018-19	About 375971 Cum of OB was generated during the year 2018-19	None
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-----	----	The Mining operations are being carried out by way of opencast, fully mechanised method. two pits with dimensions 1388x505 and 650x285 with three benches of 8-9 meters height were developed.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	It was proposed to work in one pit	During the inspection it was observed that excavation is being carried out in single pit only	The dimensions of the pits are as follows: Pit No.1 : 1388x505x56 m Pit no.2: 650 x285x47m
3b	Quantity of ROM mineral production proposed	During the year 2018-19, it was proposed to produce 1.87 million tonnes	During the year 2018-19, actual production reported was 1.77 million tonnes	None
3c	Recovery of sailable/usable mineral from ROM production	It was proposed to use entire ROM generated in the captive cement Plant of the lessee.	Entire ROM generated is being consumed in the captive cement plant of the lessee.	None

3d	Quantity of mineral reject generation	There was no proposal for generation of mineral reject	Mineral rejects has not been generated during the year 2018-19	None
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable	None
3f	Quantity of sub grade mineral generation.	Not applicable	Not applicable	None
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	None
3h	Manual / Mechanised method adopted for segregating from ROM	No segregation of ore is required. Hence, not proposed.	Not applicable	None
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	None
3j	Provision of drilling and blasting in mineral benches	it is proposed to carry out blasting with a spacing of 4.0 m and burden of 3.0 meters. The drill hole depth is 8.5 m	During the inspection the same was observed.	None
3k	Provision of mining machineries in mineral benches	It was proposed to use wagon drills, exvators & dumpers for drilling, loading & transporting of ore to crushing plant.	During the inspection, it was observed that wagon drills, dumpers & excavators are being used for drilling, loading & transportation of ore to crushing plant.	None
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 8-9 meters	During the inspection it was noticed that the bench height is being maintained between 8-9 m and digging height of the excavators are compatible with bench height as per MMR, 1961	None

3m	Total area covered under excavation/pits	90.88 ha	90.50 ha	None
3n	Ore to OB ratio for the pit/mine during the year.	Nil	Nil	None
3o	Total area put in use under different heads at the end of year	161.85 ha	160.97 ha	None
3p	Production of ROM mineral during the last five year period as applicable	2014-15 - 1.40 million tonnes 2015-16 - 1.39 million tonnes 2016-17 - 1.34 million tonnes 2017-18 - 1.41 million tonnes 2018-19 - 1.87 million tonnes	2014-15 - 0.85 million tonnes 2015-16 - 0.63 million tonnes 2016-17 - 0.79 million tonnes 2017-18 - 1.40 million tonnes 2018-19 - 1.77 million tonnes	None
3q	General remarks of inspecting officers on method of mining etc.	--	There is no deviation in the production of mineral during the year 2018-19. Mechanised opencast mining method has been adopted with deep hole drilling and blasting techniques for ore fragmentation. For loading & haulage, Hydraulic excavators, backhoe & dumpers are being used.	--

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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)	Separate waste dumps are proposed	Separate waste dumps are observed.	None

4b	Location of topsoil, OB and mineral reject dumps	No top soil was generated during year 2018-19. Two active dumps location is as follows: OB Dump - 1:800 N-1400 N and 400 E to 600 E (13.59 ha) OB dump - 2:2000 N to 2200 N and 1000 E to 1400 E(3.10 ha) one inactive dump with location: 350 E - 600 E and 900 N-1300 N (7.52 ha)	Two active and one inactive dumps were observed during the inspection. The passive dump was stabilised with plantation	None
4c	Number of dumps within lease area and outside of lease area	Two active dumps were proposed	Two active dumps were observed during the inspection.	--
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not applicable	Not applicable	--
4e	Number of active and alive dumps.	2 active and 01 inactive	2 active and 01 inactive	--
4f	Number of dead dumps.	01	01	--
4g	Number of dumps established.	01	01	--
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall proposed	Retaining wall was installed	-
4i	Length of Retaining wall or garland drain all along dumps	3600 m x 2 x 1.5 m	3838 x 2 x 1.5m	--
4j	Number of settling ponds	None	None	--
4k	Specific comments of inspecting officer on waste dump management	--	Separate OB dumps were proposed and accordingly they are being maintained. Boundary pillars have been erected as per the guidelines issued by IBM. Further, one inactive dump was also noticed.	

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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.	it was proposed to backfill the mined out area during the year 2018-19.it was proposed to backfill 0.68 ha.	1 ha was backfilled during 2018-19	None
5b	Area under backfilling of mined out area	0.68 ha proposed for backfilling during 2018-19.	1 ha backfilled during 2018-19	None
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	The OB generated is proposed to be used in backfiling	The same was observed during the inspection.	None
5d	Total area fully reclaimed and rehabilitated	--	Till 31.3.2019 a total of 12.91 ha has been backfilled	None
5e	General remarks of inspecting officers on backfilling and reclamation etc.	---	---	About 12.91 ha has been matured for reclamation and backfilling over the area.

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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).	It was proposed to submit all the statutory returns on time.	The yearly report was submitted for 2018-19	None
6b	Area available for rehabilitation (ha) .	Not applicable	Not applicable	None
6c	afforestation done (ha).	0.50 ha (2018-19)	1.63 ha (2018-19)	None

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6d	No. of saplings planted during the year	1000 Nos. (2018-19)	1780 Nos.(2018-19)	None
6e	Cumulative no .of plants	Nil	140067 Nos. (cumulative)	--
6f	Any other method of rehabilitation	Nil	Nil	--
6g	Cost incurred on watch and care during the year	Nil	Rs.2,71,000/-	--
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	Not applicable	Not applicable	--
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not applicable	Not applicable	--
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not applicable	Not applicable	--
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not applicable	Not applicable	--
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	0.68 ha	1.0 ha	None

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.68 ha	1.0 ha	None
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	0.68 ha	1.0 ha	None
6p	Compliance of environmental monitoring (core zone and buffer zone)	It was proposed to carry out environmental monitoring in core and buffer zone every quarter.	Quarterly monitoring of the environmental parameters such as Air/Noise/Water etc. are being carried out regularly and all the parameters are within the permissible limits.	An expenditure of Rs.4,75,000/- incurred during 2018-19
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	--	The proposal made in the PMCP for plantation and environmental monitoring are being carried out regularly.	--

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	There was no proposal for gradewise sorting within lease area.	Total ROM being consumed in the captive plant of lessee.	None
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not applicable	Not applicable	None
7c	Different grade of mineral sorted out at mines.	Not applicable	Not applicable	Not applicable
7d	Any beneficiation process at mines	None	None	None

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	---	----	The entire ROM being produced is being consumed in the captive cement plant of the lessee.
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## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	There is no generation of topsoil. So no proposal was made.	Not applicable	-
8b	Concurrent use or storage of topsoil	Not applicable	Not applicable	None
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Two waste dumps are proposed.	Two dumps were noticed during the inspection.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	It was proposed to use the OB generated for backfilling	The OB generated is being used for backfilling the mine out area	None
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	0.68 ha during 2018-19	1.00 ha of backfilling during 2018-19 was carried out.	None
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	It was proposed to plant about 1000 saplings during the year 2018-19	Besides, plantation done by lessee, few shrubs are observed in the mining lease area. During the year about 1780 saplings were planted by the lessee.	none
8g	Survival rate	85%	85%	None

8h	Water sprinkling on roads to control airborne dust	It was proposed to carry out control of dust generation by using water sprinklers	Water sprinkling was done with water tanker.	none
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	Separate OB dumps are proposed and phase wise reclamation is being carried out. For dust suppression water sprinkling carried out.	

#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	It was proposed to submit all the statutory returns in time	All the Monthly and Annual returns being submitted regularly.	None
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	---	As per the Annual return 2018-19, it was ereported that Sri p Vidya Kiran is the Mining Engineer and Sri P Suryanarayana Murthy is the Geologist.	None
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	-----	As per the Annual return 2018-19 the total area put to use under various heads is as follows: working pits:90.05 ha area covered by roads/plants: 20.630 ha Area under green belt: 63.820 ha	None
9d	Scrutiny of Annual return on afforestation	1000 no.s in 0.50 ha`	140067 no.s over an extent of 11 ha	None
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not Applicable	Not Applicable	None
9f	Scrutiny of Annual return on ROM stock and/or graded ore	--	As per the Annual return 2018-19 the total ROM was reported as 1.77 Million tonnes	None

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	---	The ex-mine price reported as per annual return 2018-19 is Rs.184.07/-	None
9h	Scrutiny of Annual return on fixed assets	----	As per annual return 2018-19 the value of fixed assets reported was Rs.200 lakhs.	None
9k	Scrutiny of Annual return on mining machineries	---	Hydraulic Shovel - 3 No.s Dozer - HP 1No.s Air compressor - 12.75 Cu.meters -1 water tanker - 10000 litre- 1 no. Wagon drill- 115mm dia - 1 no. Backhoe 2.10 cum-3 no.s Dumpers-10 no.s	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)	28/09/2019	01/11/2019			

**Date :**

**(SHAIENDRA KUMAR)**

Indian Bureau of Mines