

**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 : **RK13**) **A.V.Ramesh Kumar**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : P VIDYA KIRAN, MANAGER-MINES
Official with
Designation
- (iv) Date of Inspection : 15/07/2018
- (v) Prev.inspection date : 08/03/2018

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 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** : 20
- (d) **Date of Expiry** : 30/09/2017
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	:	Modif.of approved Mining Plan	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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	There was no backlog of exploration from previous year.	However, during the year 2017-18, lessee has carried out exploration by way of 19 coreboreholes in a grid interval of 150*150m with a total meterage of 1148 meters.	None
1b	Exploration over lease area for geological axis 1 or 2	There was no proposal for exploration during 2017-18.	Additional exploration of 19 coreboreholes was carried out during 2017-18. Out of total lease area of 60.72 ha, 51.61 ha is covered under G1 and 1.10 ha under G2 scale of exploration.	None
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None	It was reported that about Rs.2,00,000 was incurred for carrying out exploration during 2017-18.	None
1d	Balance area to be explored to bring Geological axis in 1 or 2	None	8.01 ha	None
1e	Balance reserve as on 01/04/20	---	UNFC(111)-13.38 Million tonnes (121 & 122)-3.20 Million tonnes Resources (211)- 7.81 Million tonnes (221) & (222)-4.620 Million tonnes	None
1f	General remarks of inspecting officers on geology, exploration etc	None	None	None

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	During the year 2017-18 it was proposed to work in South west part of the lease in II bench	The same was observed duirng the inspection.	None
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	It was proposed to have seperate becnhes in OB and ore.	It was observed duirng the inspection that there are seperate benches in OB and Ore.	None
2c	Stripping ratio or ore to OB ratio	0.28	0.26	None
2d	Quantity of topsoil generation in m3	Nil	Nil	None
2e	Quantity of overburden generation in m3	288825 Cu.M	138703 Cu.M	None
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	None	None	None

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	It was proposed to produce 1040668 tonnes	The actual production was reported as 526164 tonnes	None
3c	Recovery of sailable/usable mineral from ROM production	Nil	Nil	None
3d	Quantity of mineral reject generation	Nil	Nil	None
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	None

3f	Quantity of sub grade mineral generation.	Nil	Nil	None
3g	Grade of sub grade mineral generation	Nil	Nil	None
3h	Manual / Mechanised method adopted for segregating from ROM	None	None	Entire mineral produced is used in the captive cement plant.
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 provide provision for blasting and drilling in mineral benches.	The same was observed during the inspection.	None
3k	Provision of mining machineries in mineral benches	Yes.Provision has been made for mining machineries in mineral benches.	The same was observed during the inspection.	None
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	None
3m	Total area covered under excavation/pits	28.61 ha	28.26 ha	None
3n	Ore to OB ratio for the pit/mine during the year.	1:0.28	1:0.26	None
3o	Total area put in use under different heads at the end of year	43.89 ha	41.19 ha	None

3p	Production of ROM mineral during the last five year period as applicable	2013-14=1.08 Million tonnes 2014-15=1.07 ' 2015-16=1.01 ' 2016-17=1.12 ' 2017-18=1.04 '	2013-14=1.04 Million tonnes 2014-15=0.82 ' 2015-16=0.536 ' 2016-17=0.397 ' 2017-18=0.526 '	None
3q	General remarks of inspecting officers on method of mining etc.	None	None	None

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	There is no proposal for generation of topsoil and OB.	There was no generation of OB and Topsoil duiring the year 2017-18.However, it was proposed to generate 2,88,825 Cu.M of waste duiring 2017-18 and actual waste reported was 3,19,018 Cu.M.	None
4b	Location of topsoil, OB and mineral reject dumps	It was proposed to dump on the exisitng dump on west side of the lease.	The same was observed duiring the inspection.	None
4c	Number of dumps within lease area and outside of lease area	It was proposed to have one dump on Western side of the lease.	The same was observed duiring the inspection.	None
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	It proposed to dump OB on Western part of the lease.	The same was noticed.	None
4e	Number of active and alive dumps.	One dump	One dump	None
4f	Number of dead dumps.	None	None	None
4g	Number of dumps established.	One	One	None
4h	Whether Retaining wall or garland drain all along dumps are there.	NO proposal	One retaining wall of dimesninos 950x2x1.5m	None

4i	Length of Retaining wall or garland drain all along dumps	--	950x2x1.5m	None
4j	Number of settling ponds	One	One	None
4k	Specific comments of inspecting officer on waste dump management	None	None	None

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 for backfilling duirng 2017-18.	None	None
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	Nil	Nil	None
5e	General remarks of inspecting officers on backfilling and reclamation etc.	None	None	none

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).	No annual report for protective measures submitted for 2017-18.	A violation for the same was issued to lessee.	None

6b	Area available for rehabilitation (ha) .	Nil	Nil	None
6c	afforestation done (ha).	0.5 ha	1.10 ha	None
6d	No. of saplings planted during the year	500	750	None
6e	Cumulative no .of plants	--	9482	None
6f	Any other method of rehabilitation	None	None	None
6g	Cost incurred on watch and care during the year	Rs,231000/-	Rs.607657/-	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 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 carry out quarterly monitoring of eenvironmental parameters in both buffer and core zone	The lessee is carrying out environmental monitoring on quarterly basis and all the parameters are within permissible limits	None
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	None	None	None

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	It was proposed to prodcue 10,40,668 tonnes	The actual production reported was 526164 tonnes	None
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Nil	Nil	None
7c	Different grade of mineral sorted out at mines.	Nil	Nil	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

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	None	None	None
8b	Concurrent use or storage of topsoil	None	None	None
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	One OB dump on westernside of the lease	One OB dump on Western side of the lease was observed.	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)	It was proposed to plant 500 numbers	Actual plantation was 750 no.s duirng 2017-18	None
8g	Survival rate	--	73%	None

8h	Water sprinkling on roads to control airborne dust	One mobile water sprinkler was proposed to be utilised for dust suppression measures.	The same was observed during the inspection.	None
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	None	None	None

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and Annual return are submitted regularly	It was noticed that the lessee is submitting Monthly and Annual return regulalry vide online.	None
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	--	While going through the Annual return 2017-18.It was noticed that Sri P Shashank was appointed as Mining Engineer and Sri B Raju as Geologist.	None
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining 28.26 ha Infrastructure 4.03 ha Dump - 8.90 ha	Mining 28.26 ha Infrastructure -4.03 ha Dump - 8.90 ha	None
9d	Scrutiny of Annual return on afforestation	500	750	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	--	It was reported that 526164 tonnes	None
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	--	It was reported that the ex-mine price as Rs.235.84	None

9h	Scrutiny of Annual return on fixed assets	--	Rs.124662747/-	None
9k	Scrutiny of Annual return on mining machineries	--	Back HOE - 1 no.(2.1 Cu.M) Tipper - 10 No.s(16 Cu.M) Air compressor - 1 no.(12.740 Cu.M) Wagon drill - 1 no.(115 MM dia) Dozer - 1 no.(163 HP) Water Tanker - 1 no.(10000 litres)	None

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 26(2)	27/07/2018				
MCDR17 Rule 47(a)	27/07/2018				

Date :

(A.V.Ramesh Kumar)

Indian Bureau of Mines