

**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 : **M015**) **MANISH K. MAINDIRATTA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 08/03/2018
- (v) Prev.inspection date : 23/04/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **RAVIRALA**
- (b) **Registration NO.** :
- (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 : 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 : B.S.P.RAJU
 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/ : 04/07/2007
 Termination date

Geologist

Name : P.GANESH NARENDRA REDDY,Full Time
 Qualification : M.Sc(GEOLOGY)
 Appointment/ : 11/06/1992
 Termination date

Manager

Name : S.VENKATESWARA REDDY
 Qualification : FCC
 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	Nil	Nil	Analysis and reserve assessment is being done.
1b	Exploration over lease area for geological axis 1 or 2	2016-17- Nil 2017-18 -Nil	2016-17- Nil 2017-18 -16 Entire lease area is now under G1	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Applicable	J P Core drilling	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20		Reserves assessed as on 31.8.17 are as under 111/121/122=16.58 million tonnes Depletion from 31/8/2017 to feb 18 0.178 million tonnes The reserves as on 1.3.2018 is 16.402 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	In south west and south east direction of the pit	As per proposal	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)		Overburden bench is being worked seperately.	
2c	Stripping ratio or ore to OB ratio	1: 0.11	1:0.28	

2d	Quantity of topsoil generation in m3	Nil	Nil
2e	Quantity of overburden generation in m3	17-18 = 288825 cu.m 16-17 - 118625 cu m	17-18=134577 (till feb 18) 16-17 = 84920 cu m
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		

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	17-18 - 1040668 T 16-17 - 1129500 T	17-18 - 486098 T as on 1st March 18 16-17 = 397000 T	Less production due to less demand from cement plant.
3c	Recovery of sailable/usable mineral from ROM production	NA	NA	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	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA	

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	Conventional deep hole drilling and blasting 115mm dia ANFO
3k	Provision of mining machineries in mineral benches	Hydraulic excavators and tippers are to be deployed.	Hydraulic excavators and tippers are deployed.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM		Yes
3m	Total area covered under excavation/pits	28.67 Ha	26.69 Ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.11 for 2016-17	1: 0.21 for 2016-17
3o	Total area put in use under different heads at the end of year	46.39 ha	46.13 ha
3p	Production of ROM mineral during the last five year period as applicable	2013-14 - 1089413 T 2014-15 - 1072664 T 2015-16 - 1015273 T 2016-17 - 1129500 T 2017-18 - 1040668 T	2013-14 -1040179 T 2014-15 - 820600 T 2015-16 - 536000 T 2016-17 - 397000 T 2017-18 - 486098 T (till feb 2018)
3q	General remarks of inspecting officers on method of mining etc.		

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 top soil and mineral reject. OB dumping seperate.	There is no top soil and mineral reject. OB dumping seperate.
4b	Location of topsoil, OB and mineral reject dumps	There is no top soil and mineral reject. OB dump (west side of ML area).	There is no top soil and mineral reject. OB dump (west side of ML area).
4c	Number of dumps within lease area and outside of lease area	1 dump is in ML area	1 dump is in ML area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	OB dumping in west side of mining lease.	OB dumping in west side of mining lease.
4e	Number of active and alive dumps.	1	1
4f	Number of dead dumps.	0	0
4g	Number of dumps established.	0	None
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	Not proposed	950m x 2m x 1.5m garland drain is there
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.	Full extraction on west side of south west and north west of pit.	Under progress
5b	Area under backfilling of mined out area	0.76 ha	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	NA
5d	Total area fully reclaimed and rehabilitated	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.		

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).		Submitted	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).		Area is not mature for rehabilitationof benches	
6d	No. of saplings planted during the year		Not applicable. Area is not mature for rehabilitation of benches	
6e	Cumulative no .of plants		Not applicable. Area is not mature for rehabilitation of benches	
6f	Any other method of rehabilitation	Nil	Nil	

6g	Cost incurred on watch and care during the year	NA	NA
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	Not applicable. Area is not mature for rehabilitation by backfilling
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings		Not applicable.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area		Not applicable. Area is not mature for rehabilitation by backfilling
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir		Not applicable.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.		Not applicable.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	There is no waste land	afforestation in the safety barrier and dump 750 saplings in 2016-17 over 1.1 hectare area 750 sapling in 2017-18 so far
6p	Compliance of environmental monitoring (core zone and buffer zone)	Report not provided after November 2017	violation pointed

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	17-18= 1040668 MT	17-18= 486098 MT	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	
7c	Different grade of mineral sorted out at mines.	NA	NA	
7d	Any beneficiation process at mines	NA	NA	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	NA	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NA	NA	
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	-	Separate waste is there for Overburden (phylite) No reject generaton is there.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	500 sapling in 2017-18 over 0.5 ha. 500 sapling in 2016-17 over 0.5 ha.	afforestation in the safety barrier and dump 750 saplings in 2016-17 over 1.1 hectare area 750 sapling in 2017-18 so far
8g	Survival rate		85%
8h	Water sprinkling on roads to control airborne dust	One mobile water sprinkler with spraying arrangement will be used for dust suppression of haul roads.	One mobile water sprinkler with spraying arrangement provided for dust suppression of haul roads.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Good

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted in time		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	-	Mining Engineer P Shashank Geologist: B Raju	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		submitted in returns	

9d	Scrutiny of Annual return on afforestation		Information furnished in returns
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	reported 397000T	ROM 397000T
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		Ex Mine Price 203.12 PMT
9h	Scrutiny of Annual return on fixed assets		
9k	Scrutiny of Annual return on mining machineries		furnished in the returns

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 55(1)(3)	05/04/2018	16/05/2018			
MCDR17 Rule 11(1)	05/04/2018	16/05/2018			

Date :

(MANISH K. MAINDIRATTA)

Indian Bureau of Mines