

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

**MCDR inspection REPORT
Hyderabad regional office**

Mine file No : AP/KSN/LST-20/HYD

Mine code : 38APR10014

- (i) Name of the Inspecting : **PR09**) **M.Pratap.Reddy**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : P.JANI REDDY MINES MANAGER
Official with
Designation
- (iv) Date of Inspection : 18/07/2018
- (v) Prev.inspection date : 15/03/2018

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JAYANTHIPURAM (ML NO.317)**
- (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**
- (f) **Police Station** : **Chilakallu**
- (g) **First opening date** : **19/08/1991**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **JAYANTIPURAM-V(SOUTH BLOCK)**
correspondance : **JAYANTIP[URAM, CHILLAKALLU (MO**
: **KRISHNA DIST.**
3. (a) **Lease Number** : **APR0330**
- (b) **Lease area** : **7.28**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **27/11/2014**
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 : T.Manikanta,Full Time
 Qualification : B.Tech(Mining)
 Appointment/ : 01/08/2017
 Termination date

Geologist

Name : K.Anjaneyulu,Full Time
 Qualification : MSc (Gology)
 Appointment/ : 01/08/2017
 Termination date

Manager

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

6. Date of approval of Mining Plan/Scheme of Mining : MP modif under MCR 1960 01/10/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Four boreholes have been proposed.	Seven DTH holes have been drilled.	
1b	Exploration over lease area for geological axis 1 or 2	G1 scale of exploration.	G1 Scale of exploration has been carried out over an extent of 79.93 ha G2 Scale of exploration has been carried over an extent of 4.32 ha and G4 Scale of exploration has been carried over an extent of 4.11 ha.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Exploration Agency:Lessee him self Proposed expenditure: Not given	Exploration Agency:Lessee him self expenditure incurred:Rs.1,07,300/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not furnished	An extent of 4.11 ha. to be explored.	
1e	Balance reserve as on 01/04/20	16.33 million tonne reserve	16.93 million tonne reserve.	The balance reserve is on heigher side since the anticipated production has not been achived due to less intake of Limestone by the Plant.
1f	General remarks of inspecting officers on geology, exploration etc	The deposit is smple sedimentary bedded deposit of Type-I category of UNFC system.	The deposit falls in Type-1 of UNFC system and it pertains to Nargi group of formation of Kurnool group (Equivalent of Semri series of Vindhyan system. An extent of 79.93 has been explored to the G1 level of exploration.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Development cum production is proposed in between section lines ML-3S and ML-7S and between benches 2nd, 3rd, 4th and 5th benches.	The development cum production is done as proposed. in the approved document.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	There is no proposed benches in top soil and overburden. The proposed mineral benches are in 2nd,3rd,4th and 5th benches.	Only mineral benches have been formed(2nd,3rd,4th and 5th benches.)
2c	Stripping ratio or ore to OB ratio	1:0.3	1:0.19
2d	Quantity of topsoil generation in m3	Nil	-
2e	Quantity of overburden generation in m3	28,665 cum	10,273 cum
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Development cum production is proposed along section ML-3S to ML-7Si.	Development is in the form of formation of Limestone benches. There is no existance of top soil and overburden.Thus there is no top soil/OB benches.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	2,16,933 cum ROM (Limestone)	1,99,001 cum ROM (Limestone)	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	

3d	Quantity of mineral reject generation	36,787 cum	28,619 cum	
3e	Grade of mineral rejects generation and threshold value declared.	+20% SiO ₂	+20% SiO ₂	
3f	Quantity of sub grade mineral generation.	Nil	1,03,879 T	
3g	Grade of sub grade mineral generation	Nil	15-18% SiO ₂	
3h	Manual / Mechanised method adopted for segregating from ROM	No such proposal is exists.	-	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposal is given.	-	However, what so ever sub grade mineral generated is consumed by way of blending with superior grade of Limestone.
3j	Provision of drilling and blasting in mineral benches	Yes,	Provision of deep hole drilling and blasting in mineral benches has been made as per the proposals made in the approved document.	
3k	Provision of mining machineries in mineral benches	Yes,	Provision for the deployment of mining machinery(Hydraulic excavators & Tippers) in mineral benches has been made.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes,	Suitable height of 8m bench height in OB and 8m height in mineral(Limestone) has been formed as proposed in the approved document.	
3m	Total area covered under excavation/pits	32.92 ha	32.35 ha.	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.3	1:0.19	

3o	Total area put in use under different heads at the end of year	65.57 ha	65.00 ha
3p	Production of ROM mineral during the last five year period as applicable	2013-14=5,00,705 T, 2014-15=5,00,742 T, 2015-16=5,42,847 T, 2016-17=5,82,962 T & 2017-18=5,42,332 T.	2013-14=4,94,980 T, 2014-15=3,40,000 T, 2015-16=1,97,000 T, 2016-17=3,34,000 T & 2017-18=4,97,502 T.
3q	General remarks of inspecting officers on method of mining etc.	Opencast fully mechanised method of mining is proposed.	The mining operations are being carried out by opencast fully mechanised method of mining is practiced.

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 of top soil.The provision for seperate dumping of OB and Mineral reject is made.	As proposed the OB and mineral reject is dumped seperately.	
4b	Location of topsoil, OB and mineral reject dumps	The OB is proposed to dumped on the bund and mineral reject shall be stacked on the existing dump yard.	As proposed, the OB and mineral rejects are dumped/stacked at respective places.	
4c	Number of dumps within lease area and outside of lease area	Two	Two	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed beyond UPL.	As proposed the dump is beyond UPL.	
4e	Number of active and alive dumps.	One	One.	
4f	Number of dead dumps.	One	One.	

4g	Number of dumps established.	Nil	-
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Done
4i	Length of Retaining wall or garland drain all along dumps	2502mx2mx1m	2500mx2mx1m
4j	Number of settling ponds	Nil	-
4k	Specific comments of inspecting officer on waste dump management	The dumps have been proposed with in ML area.	The proposed dumps exists with in ML area.. The retaining wall has been made around the dump to prevent the washoff of the dump material.

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 such proposal has been made.	-	The mineral at depth is yet to exhaust at depth.
5b	Area under backfilling of mined out area	Nil	-	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No such proposal is made.	-	
5d	Total area fully reclaimed and rehabilitated	No such proposal has been made.	-	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	There are no proposals of backfilling and reclamation.	-	The mineral is yet to exhaust at depth and at this stage the backfilling and reclamation of the mined area does not arise.

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).	To be submitted.	Submitted.	
6b	Area available for rehabilitation (ha) .	No such proposal has been made.	-	
6c	afforestation done (ha).	Proposed	Done.	
6d	No. of saplings planted during the year	400 saplings	452 saplings.	
6e	Cumulative no .of plants	2000 saplings	24981 saplings	
6f	Any other method of rehabilitation	No such proposal has been made.	-	
6g	Cost incurred on watch and care during the year	Rs.2,99,200/-	Rs.1,95,000/-	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No such proposal has been made.	-	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No such proposal has been made.	-	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No such proposal has been made.	-	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposal has been made.	-	

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No such proposal has been made.	-
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No such proposal has been made.	-
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No such proposal has been made.	-
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No such proposal has been made.	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quartely monitoring of Environmental parameters is proposed.	As proposed, monitoring of Environmental prarmeters is being done on the quarerly basis both in core and buffer zones.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No progressive closure operations have been proposed during the Plan period 2015-16 to 2019-20	Afforesation in the safety barrier zone is being carried out. Periodical monitoring of Environmental parameters is being carried out both in Core and buffer zone. The parameters were found with in permissible limits.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	5,00,000 T	4,97,503 T	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No such proposal has been made.	-	

7c	Different grade of mineral sorted out at mines.	No such proposal has been made.	-	Entire ROM is consumed.
7d	Any beneficiation process at mines	No such proposal has been made.	-	Except sizing no beneficiation is done.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Entire ROM is meant for consumption.	The entire ROM is consumed in the Cement Plant.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No such proposal has been made.	-	There is no generation of top soil.
8b	Concurrent use or storage of topsoil	No such proposal has been made.	-	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes, proposed.	The waste and mineral rejects have been seperately dumped.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal has been made.	-	The land is not yet matured for restoration as the Limestone is continuing at depth.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposal has been made.	-	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	To be furnished.	The existing saplings are about 24,981. The plantation done during 2017-18 is 4525 saplings.
8g	Survival rate	90%	90%
8h	Water sprinkling on roads to control airborne dust	Proposed.	Periodical water sprinkling is done to arrest airborne dust.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Afforestation is proposed in and around the ML area to improve the aesthetic beauty.	The proposed afforestation is done to improve the aesthetic beauty in and around the ML area.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Return shall be submitted before 10th of every month in respect of preceding month. Annual return shall be submitted before 1st July each year for the preceding Financial year.	Submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	To be furnished.	Furnished.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	To be furnished	Furnished.	
9d	Scrutiny of Annual return on afforestation	To be furnished.	Details have been furnished.	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Details to be furnished.	A quantity of 71,548 T Mineral rejects of +20% SiO ₂ is furnished.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	To be furnished.	Nil ROM stock is furnished.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	To be furnished.	The sale/Ex-mine price of Limestone is furnished to be Rs.183.95/-
9h	Scrutiny of Annual return on fixed assets	To be furnished.	Value of Fixed Assets (in Rs) is 124662747 (This figure is common for four mines in Krishna district.)
9k	Scrutiny of Annual return on mining machineries	To be furnished.	Mining machinery details have been furnished.

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

Date :**(M.Pratap.Reddy)**

Indian Bureau of Mines