

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

Mining Plan Modification REPORT

Hyderabad regional office

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

Mine code : 38APR10015

- (i) Name of the Inspecting : **RK13**) **A.V.Ramesh Kumar**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Sri P Jani Reddy General Manager(Mines)
Official with
Designation
- (iv) Date of Inspection : 18/09/2018
- (v) Prev.inspection date :

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 : JAYANTIPURAM LIMESTONE MINE
correspondance : 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 : B.S.P.RAJU
 KUMARASWAMY .RAJA.NAGAR,
 JAYATNTHIPURAM KRISHNA
 DISTRICT KRISHNA ANDHRA
 PRADESH
 Phone: 08654-224400
 FAX : 08654-222532

Mining Engineer

Name : P Jani Reddy, Full Time
 Qualification : AMIE in Mining Engineering
 Appointment/ : 28/06/2006
 Termination date

Geologist

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

Manager

Name : P.JANI REDDY
 Qualification : AMIE(MINING)
 Appointment/ : 08/08/2005
 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	Nil	Nil	Nil
1b	Exploration over lease area for geological axis 1 or 2	Nil	Total lease area is covered under G1 & G2 except two non contiguous blocks on the Eastern side of the lease	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Nil
1e	Balance reserve as on 01/04/20	22.96 Million tonnes	23.60 Million tonnes	Nil
1f	General remarks of inspecting officers on geology, exploration etc	Nil	Nil	Nil

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It was proposed to work between ML 12.5 to 13.5 in first and second benches during 2017-18.	The same was observed during the inspection.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	There are two benches in OB and five benches in Mineral.	The same was noticed during the inspection.	Nil
2c	Stripping ratio or ore to OB ratio	0.48	0.35	Nil
2d	Quantity of topsoil generation in m3	Nil	Nil	Nil

2e	Quantity of overburden generation in m3	248186 Cu.M(2017-18)	142766 Cu.m(2017-18) 118480 Cu.m(2018-19 up to 18.9.2018)	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Nil	Nil	Nil

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	It is proposed to produce from One pit	production was from One pit only	Nil
3b	Quantity of ROM mineral production proposed	566360 Cu.m	563612 cu.m	Nil
3c	Recovery of sailable/usable mineral from ROM production	None	None	None
3d	Quantity of mineral reject generation	23030 Cu.m	2285 Cu.m	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Above 18% Sio_2 below 40% Cao	Above 18% Sio_2 below 40% Cao	Nil
3f	Quantity of sub grade mineral generation.	Nil	Nil	Nil
3g	Grade of sub grade mineral generation	Nil	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Nil	Nil	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	Nil

3j	Provision of drilling and blasting in mineral benches	proposal has been made for drilling and blasting in mineral benches.	The same has been observed.	None
3k	Provision of mining machineries in mineral benches	provision has been made for mining machineries in mineral benches	The same was observed during the inspection.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	Nil
3m	Total area covered under excavation/pits	100.52 ha	89.88 ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.48	1:0.35	Nil
3o	Total area put in use under different heads at the end of year	160.42 ha	159.35 ha	Nil
3p	Production of ROM mineral during the last five year period as applicable	2013-14-1.4 million tonnes 2014-15-1.4 2015-16-1.39 2016-17-1.34 2017-18-1.41	2013-14-0.95 million tonnes 2014-15-0.85 2015-16-0.63 2016-17-0.79 2017-18-1.4	Nil
3q	General remarks of inspecting officers on method of mining etc.	Nil	Nil	Nil

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Nil	Nil	Nil

4b	Location of topsoil, OB and mineral reject dumps	OB dump No.1 was located 800N to 1400N OB dump No.2 located 2000N to 2200N Ob Dump No.3 located 1800N to 200N One Mineral reject dump located 1600N to 1800N	The same was observed during the inspection.	Nil
4c	Number of dumps within lease area and outside of lease area	Three OB dumps and one mineral reject dump	The same were noticed during the inspection	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	OB dump No.1 was located 800N to 1400N OB dump No.2 located 2000N to 2200N Ob Dump No.3 located 1800N to 200N One Mineral reject dump located 1600N to 1800N	Same was observed during the inspection	Nil
4e	Number of active and alive dumps.	One active and two dead dumps	One active and two dead dumps	Nil
4f	Number of dead dumps.	2	2	Nil
4g	Number of dumps established.	1	1	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	yes	Nil
4i	Length of Retaining wall or garland drain all along dumps	--	2657*2*1.5m	Nil
4j	Number of settling ponds	Nil	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	Nil	Nil	Nil

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 proposed to backfill the area	Backfilling is being carried out on the south east part of the lease.	Nil
5b	Area under backfilling of mined out area	0.28 ha	0.23 ha(2017-18) 0.20 ha(2018-19 up to 18/9/2018)	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	13.85 ha	12.23 ha	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Nil	Nil	Nil

Progressive Mine Closure Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Proposed to submit the report in time	Submitted the report in time	Nil
6b	Area available for rehabilitation (ha) .	Nil	Nil	Nil
6c	afforestation done (ha).	0.50	4.40 ha	Nil
6d	No. of saplings planted during the year	1000	3085	Nil
6e	Cumulative no .of plants	--	138287 no.s	Nil
6f	Any other method of rehabilitation	Nil	Nil	Nil
6g	Cost incurred on watch and care during the year	562500/-	663600/-	Nil

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Nil	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Nil	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil	Nil

6p	Compliance of environmental monitoring (core zone and buffer zone)	proposed to carry out quarterly monitoring of environmental reports	Carried out Quarterly environmental monitoring for core and buffer zones regularly and it was noticed that the parameters are within the permissible limits	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Nil	Nil	Nil

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	566360 Cum(2017-18)	563612 cu.m(2017-18) 340038 Cu.m(2018-19 up to 18/9/2018)	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	None	None	Entire ROM is consumed in the captive plant.
7d	Any beneficiation process at mines	None	None	None
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Nil	Nil	Nil

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Nil	Nil
8b	Concurrent use or storage of topsoil	Nil	Nil	Nil

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Yes	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Phased wise	Phased backfilling is being carried out	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	--	Plantation made by lesse and bushy type of vegetation was observed during the inspection	--
8g	Survival rate	--	90%	--
8h	Water sprinkling on roads to control airborne dust	One mobile water sprinkler was proposed	One mobile sprinkler was in use for dust suppression during the inspection.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Nil	Nil	Nil

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	--	Monthly Returns and Annual returns are being submitted regularly.	--
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	--	It was reported in the Annual return that Sri Ashraf ali is Mining Engineer and Sri P S Murthy as Geologist	--

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Workings- 89.880 ha Reclaimed - 12.220 ha Waste dump - 36.610 ha Others - 61.690 ha	The same was observed during the inspection	--
9d	Scrutiny of Annual return on afforestation	In the Annual return it was reported that during the year 2017-18 about 3085 plats were planted with an survival percentage of 91%.	The same was observed during the inspection.	--
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	About 5713 tonnes of mineral reject was reported in the Annual return.	The same was noticed during the inspection.	--
9f	Scrutiny of Annual return on ROM stock and/or graded ore	In the Annual return it was reported that about 1.4 Million tonnes was produced With a closing stock of 132030 tonnes	The same was noticed during the inspection.	--
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	It was reported that Rs.185.83 was the Ex mine price and production cost as it is a captive plant.	Same was observed during the inspection.	--
9h	Scrutiny of Annual return on fixed assets	It was reported that Rs.124662747/- as the fixed assets during the year 2017-18.	The scrutiny part of fixed assets was not done.	--

9k	Scrutiny of Annual return on mining machineries	In the Annual return it was reported that 1.Back Hoe-2 2. Dozer-1 3.Tipper-10 4. Air compressor -1 5. Wagon drill -1 6. Water Tanker-1	The same were observed duirng the inspection.	--
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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 :

(A.V.Ramesh Kumar)

Indian Bureau of Mines