

MCDR-MiFLOLST/32/2023-HYD-IBM\_RO\_HYD  
INDIAN BUREAU OF MINES  
MINERALS DEVELOPMENT AND REGULATION DIVISION

I/16039/2023

**Mining Plan Modification REPORT**

**Hyderabad regional office**

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

**Mine code :** 38APR10015

- (i) Name of the Inspecting : **RAM** ) **RAMKISHAN R**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri P. Jani Reddy, Agent (Mines)  
Official with  
Designation
- (iv) Date of Inspection : 19-JUL-23
- (v) Prev.inspection date : 07-SEP-21

**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 : **minesjpm@ramcocements.co.i**
- Phone : **08654-224400 to 09**
- (f) **Police Station** : **CHILLAKALLU**
- (g) **First opening date** : **16-MAY-86**
- (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-AUG-11**
4. **Mineral worked** : **LIMESTONE** **Main**

I/16039/2023

## 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 : P Shashank, Full Time  
Qualification : B.Tech (Mining)  
Appointment/ : 16-DEC-21  
Termination date

## Geologist

Name : K Anjaneyulu, Full Time  
Qualification : M.sc.(Geology)  
Appointment/ : 14-SEP-22  
Termination date

## Manager

Name : P Vidya Kiran  
Qualification : B.Tech (Mining)  
Appointment/ : 19-JUL-19  
Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	13-MAY-02
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	18-JUN-03
	:	Renewal under rule 24 MCR1960	07-APR-06
	:	Modif.approved Mining Scheme	17-OCT-14
	:	MP modif under 17(3) MCR 2016	22-SEP-16
	:	MP review under 17(1) MCR 2016	08-JAN-20
	:	MP modif under 17(3) MCR 2016	06-OCT-21

I/16039/2023

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No such specific proposal.	Nil	
1b	Exploration over lease area for geological axis 1 or 2	No Proposal.	Nil	Entire mineralised area explored under G1 level.
1c	Exploration Agencies and Expenditure in lakh rupees during the year		Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal.	Nil	Entire mineralised area explored under G1 level.
1e	Balance reserve as on 01/04/20	As per the approved document dated 06.10.2021, the Limestone reserves are 35.261 mil.t	due to depletion/addition over the period of time the updated reserves as on dated 01.04.2023 are limestone: 33.011 mil.t.	Grade Cao - 45.5%
1f	General remarks of inspecting officers on geology, exploration etc		Jayanthipuram Limestone deposit in the mining lease area lies in the north-eastern margin of the palnad sub-basin of the kurnool sedimentary basin. Limestone occurring in thi area is shadfes of grey, buff or white fine grained hard & Compact. the limestone shows typical bedded nature with varying thickness.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
--------	------	-----------	-------------	---------

I/16039/2023

2a	Location of development w.r.t.lease area	two pits are proposed for development during the year 2022-23. between grid E405820- E406300, N1865160- N1864900 & E405860- E406460, N1865160- N1865300	two pits are being developed.	there is deviation in the development location so violation pointed out and communicated to lessee vide letter dated 27.07.2023
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	seperate benches Ob and mineral proposed.no top soil generation is envisaged.	maintained.	
2c	Stripping ratio or ore to OB ratio	1:0.55 t/cu.m.	1:0.67 t/cu.m.	
2d	Quantity of topsoil generation in m3	No proposal.	Nil	
2e	Quantity of overburden generation in m3	1010127 cu.m.	1005469 cu.m.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		development is carried out by opencast mining method as proposed.	

---

**Exploitation:**

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	two	two	

---

I/16039/2023

3b	Quantity of ROM mineral production proposed	1804365 t during the year 2022-23.	1499224 t	actual limestone production is less as compared to proposed quantityt in the approved mining plan. violation vide letter dated 27.07.2023 communicated to lessee.
3c	Recovery of sailable/usable mineral from ROM production	1728490 t	1438744 t	
3d	Quantity of mineral reject generation	75875 t	60480 t	
3e	Grade of mineral rejects generation and threshold value declared.	below 41% Cao	below 41% Cao	
3f	Quantity of sub grade mineral generation.	No proposal.	Nil	
3g	Grade of sub grade mineral generation	No proposal.	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised.	Mechanised.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal.	Nil	
3j	Provision of drilling and blasting in mineral benches	drilling and blasting is proposed.	drilling & blasting is carried out.	

I/16039/2023

3k	Provision of mining machineries in mineral benches	excavator and dumper combination is proposed for excavation.	excavator and dumper combination is deployed for excavation.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	8 m bench height is proposed	maintained.
3m	Total area covered under excavation/pits	98.28 ha at the end of plan period i.e. year 2024-25	94 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.55 t/cu.m.	1:0.67 t/cu.m.
3o	Total area put in use under different heads at the end of year	186.8 ha at the end of plan period i.e. year 2024-25	156.39 ha
3p	Production of ROM mineral during the last five year period as applicable	2018-19: 1.87 mil.t. 2019-20: 3.76 mil.t. 2020-21: 1.8 mil.t. 2021-22: 1.82 mil.t. 2022-23: 1.8 mil.t.	2018-19: 1.77 mil.t. 2019-20: 1.76 mil.t. 2020-21: 1.69 mil.t. 2021-22: 1.78 mil.t. 2022-23: 1.499 mil.t.
3q	General remarks of inspecting officers on method of mining etc.		production is carried by opencast mining method as proposed.

---

**Solid Waste Management - Dumping:**


---

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

---

I/16039/2023

4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No top soil generation is envisaged, backfilling of OB are proposed in the mineral exhausted area of the working pit.	backfilling is being carried out.
4b	Location of topsoil, OB and mineral reject dumps	OB backfilling is proposed at mineral exhaust area of pit-1	carried out.
4c	Number of dumps within lease area and outside of lease area	No new dumps are proposed during the year 2022-23	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal.	Nil.
4e	Number of active and alive dumps.	No proposal.	Nil.
4f	Number of dead dumps.	No proposal.	Nil.
4g	Number of dumps established.	No proposal.	Nil.
4h	Whether Retaining wall or garland drain all along dumps are there.	provided.	provided.
4i	Length of Retaining wall or garland drain all along dumps	No proposal.	Nil
4j	Number of settling ponds	No proposal.	Nil
4k	Specific comments of inspecting officer on waste dump management		solid waste management is carried out as proposed.

---

Solid Waste Management - Backfilling:

---

I/16039/2023

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	proposed.	carried out after full extraction of mineral	
5b	Area under backfilling of mined out area	1.21 ha during the year 2022-23.	1.2 ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal.	Nil.	
5d	Total area fully reclaimed and rehabilitated	No proposal.	Nil.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		backfilling is carried out as proposed.	

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).	PMCP report to submitted submitted before 1 st July.		
6b	Area available for rehabilitation (ha) .	No proposal.	Nil.	
6c	afforestation done (ha).	0.5 ha during the year 2022-23.	0.58 ha	on backfilling area.
6d	No. of saplings planted during the year	1250 nos	3710 nos	
6e	Cumulative no .of plants		151541 nos	



I/16039/2023

6f	Any other method of rehabilitation	No proposal.	Nil.
6g	Cost incurred on watch and care during the year		Rs. 986146
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( L x B x D	1.21 ha	1.21 ha
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	1.21 ha	1.2 ha
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	0.5 ha	0.58 ha
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal.	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal.	Nil.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	No proposal.	Nil

I/16039/2023

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal.	Nil.	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal.	Nil.	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodical Monitoring as stipulated in Environment Clearance granted by MoEF & CC and Consent to Operate granted by SPCB.	Periodical Monitoring as stipulated in Environment Clearance granted by MoEF & CC and Consent to Operate granted by SPCB is carried out.	parameters are within the limits.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		PMCP measures were carried out as proposed.	

---

**Mineral Conservation:**

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	proposed.	carried out.	entire ROM (Limestone) of cement grade is used in the captive plant.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanical	mechanical	
7c	Different grade of mineral sorted out at mines.	cement grade limestone	cement grade limestone	

I/16039/2023

7d	Any beneficiation process at mines .	No proposal.	Nil.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		entire ROM (limestone) of cement grade is used at captive plant.

---

**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal.	Nil.	
8b	Concurrent use or storage of topsoil	No proposal.	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	backfilling of OB is proposed.	carried out.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed.	carried out.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed.	carried out.	

---

I/16039/2023

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1250 nos	3710 nos
8g	Survival rate		95%
8h	Water sprinkling on roads to control airborne dust	water sprinkling on haul raods for dust suppression is proposed.	carried out
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		aesthetic beauty in and around the mines area is maintained.

---

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and annual returns are to be submitted as per rule 45 of MCDR, 2017	submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	(i) Graduate Mining Engineer 4, (ii) Diploma Mining Engineer 4, (iii) Geologist 1	found to be in order.	

---

I/16039/2023

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(i) Covered under current (O-C) Workings 94.000 ha, (ii) Used for waste disposal 36.310 ha (iii) Occupied by plant, buildings, residential, welfare buildings and roads 24.880 ha etc.,	found to be in order.
9d	Scrutiny of Annual return on afforestation	3710 nos	found to be in order.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	60480 t	found to be in order.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock is 67420 t.	found to be in order.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price Rs.212.36/t	Ex-mine price Rs.212.36/t
9h	Scrutiny of Annual return on fixed assets	Rs. 62723266	Rs. 62723266
9k	Scrutiny of Annual return on mining machineries	BACK HOE 2.300 CUM 1, BACK HOE 2.800 CUM 1, DOZER 180.000 HP 1 etc.,	found to be in order.

---

I/16039/2023

**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)	27-JUL-23			

**Date :****(RAMKISHAN R)**

Indian Bureau of Mines