

INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION

Dfo

MCDR inspection 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 : 03-JAN-23
- (v) Prev.inspection date : 20-OCT-20

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-MAY-86**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **JAYANTIPURAM LIMESTONE MINE**
JAYANTIPURAM, CHILLAKALLU (M)
KRISHNA DIST.
3. (a) **Lease Number** : **APR0125**
- (b) **Lease area** : **18.64 256.54 ha**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **15/07/2032**
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 : KHAJA ASHRAF ALI, Full Time
Qualification : B.E(Mining)
Appointment/ : 01-AUG-17
Termination date

Geologist

Name : P.SURYANARAYANA MURTHY, Full Time
Qualification : M.Sc
Appointment/ : 11-JUN-92
Termination date

Manager

Name : S.VENKATESWARA REDDY
Qualification : FCC
Appointment/ : 01-AUG-17
Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Renewal under rule 22 MCR1960	13-MAY-02
		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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No such specific proposal.	5 boreholes were drilled which were proposed during the year 2020-21.	
1b	Exploration over lease area for geological axis 1 or 2	No Proposal.	5 nos fo boreholes were drilled which were backlog of proposal made during the year 2020-21.	
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.	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 01.04.2022 are limestone: 34.51 milt.t.	
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 occuring 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	Propasals	Actual work	Remarks
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2a	Location of development w.r.t. lease area	two pits are proposed for development during the year 2021-22.	two pits are being developed.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	seperate benches Ob and mineral proposed. no top soil generation is envisaged.	mainatined.
2c	Stripping ratio or ore to OB ratio	1:0.52 t/cu.m.	1:0.48 t/cu.m.
2d	Quantity of topsoil generation in m3	No proposal.	Nil
2e	Quantity of overburden generation in m3	959090 cu.m.	855600 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	
3b	Quantity of ROM mineral production proposed	1.82 mil.t. during the year 2021-22.	1.78 mil.t.	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	3000 t	Nil	

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.
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	104.18 ha at the end of plan period i.e. year 2024-25	92.7 ha.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.52 t/cu.m.	1:0.48 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	153.89 ha
3p	Production of ROM mineral during the last five year period as applicable	2017-18: 1.41 mil.t. 2018-19: 1.87 mil.t. 2019-20: 3.76 mil.t. 2020-21: 1.8 mil.t. 2021-22: 1.82 mil.t.	2017-18: 1.4 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.
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	Proposals	Actual work	Remarks
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 2021-22.	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	600 m	maintained.
4j	Number of settling ponds	1	1
4k	Specific comments of inspecting officer on waste dump management		solid waste management is carried out as proposed.

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.	proposed.	carried out after full extraction of mineral	
5b	Area under backfilling of mined out area	1.18 ha during the year 2021-22.	1.05 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	0.5 ha during the year 2021-22.	0.6 ha	

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 2021-22.	0.6 ha	
6d	No. of saplings planted during the year	1250 nos	4044 nos	
6e	Cumulative no .of plants		147831 nos	
6g	Cost incurred on watch and care during the year		Rs. 880000	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	1.18 ha	1.18 ha	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	1.18 ha during the year 2021-22.	1.05 ha	

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	0.5 ha	0.6 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
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.

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	Proposals	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	
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	Proposals	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.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1250 nos	4044 nos
8g	Survival rate		95%
8h	Water sprinkling on roads to control airborne dust	water sprinkling on haul roads 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 2, (ii) Diploma Mining Engineer 2, (iii) Geologist 1	found to be in order.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(i) Covered under current (O/C) Workings 92.700 ha, (ii) Used for waste disposal 36.310 ha, (iii) Occupied by plant, buildings, residential, welfare buildings & roads 24.880 ha etc.,	found to be in order.	
9d	Scrutiny of Annual return on afforestation	4044	found to be in order.	
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	ROM closing stock is 123296 t.	found to be in order.	

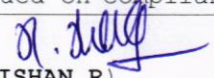
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price Rs.215.54/t	Ex-Mine price furnished in the annual return submitted for the year 2021-22 is not in line with weighted average of monthly returns submitted for the eyar 2021-22. also production cost is not furinshed as EX-mine price furinshed as it is a captive mine.	advised the lessee to rectify the issue.
9h	Scrutiny of Annual return on fixed assets	Rs. 52675557	Rs. 52675557	
9k	Scrutiny of Annual return on mining machineries	BACK HOE 2.000 CUM 2, DOZER 180.000 HP 1, TIPPER 16.000 CUM 10 etc.,	found to be in order.	

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 : 31/01/23

NO violation.


(RAMKISHAN R)

Indian Bureau of Mines