

MCDR-MPCPOMPAS/2/2023-HYD-IBM_RO_HYD
INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION

I/16038/2023

MCDR inspection REPORT
Hyderabad regional office

Mine file No : AP/KSN/LST-25/HYD

Mine code : 38APR10026

- (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
Official with
Designation
- (iv) Date of Inspection : 19-JUL-23
- (v) Prev.inspection date : 13-OCT-22

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **RAVIRALA**
- (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 : **JAGGAYYAPETA**
- Post office : **KUMARASAMYRAJA**
- Pin Code : **521457**
- FAX No. : **08654-222532**
- E-mail : **minesjpm@ramcocements.co.i**
- Phone : **08654-224400**
- (f) **Police Station** : **JAGGAYYAPETA**
- (g) **First opening date** : **25-JUN-03**
- (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** : **50**
- (d) **Date of Expiry** : **30-SEP-47**
4. **Mineral worked** : **LIMESTONE** **Main**

I/16038/2023

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 : THE RAMCO CEMENTS LIMITED.
 KUMARASAMY RAJA NAGAR-
 5217457, JAGGAYYAPET
 MANDAL, KRISHNA DISTRICT.
 KRISHNA ANDHRA PRADESH
 Phone:
 FAX : 08654-222532

Agent : P JANI REDDY
 KUMARASWAMY .RAJA.NAGAR,
 JAYATNTHIPURAM KRISHNA
 DISTRICT KRISHNA ANDHRA
 PRADESH
 Phone: 08654-224400
 FAX : 08654-222532

Mining Engineer

Name : R Naresh Kumar, Full Time
 Qualification : Diploma mining
 Appointment/ : 16-DEC-21
 Termination date

Geologist

Name : B RAJU, Full Time
 Qualification : MSC GEOLOGY
 Appointment/ : 02-MAR-06
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	31-JUL-01
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	13-MAY-08
	:	Mining Scheme rule 12 MCDR1988	21-OCT-13
	:	MP modif under 17(3) MCR 2016	13-NOV-17
	:	MP modif under 17(3) MCR 2016	26-FEB-19
	:	MP modif under 17(3) MCR 2016	16-MAR-20

I/16038/2023

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.	Entire mineralised area explored under G1 level.	
1e	Balance reserve as on 01/04/20	As per the approved document dated 12.01.2023 the Limestone reserves are 19.284 mil.t	due to depletion/addition over the period of time the updated reserves as on dated 01.04.2023 are limestone: 17.14 milt.t.	Grade Cao - 34 to 47.7%
1f	General remarks of inspecting officers on geology, exploration etc		Limestone occurring in this area are in shades of grey, buff or white, fine grained, hard and compact with shale partings. The limestone shows typical bedded nature with varying thickness. The quality of limestone deteriorates at places due to the predominance of shale partings. The action of ground water on these limestone has resulted in the formation of large solution cavities at different places.	

Development :

I/16038/2023

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	one pit, grid location grid location E408300-E408800, N1861720-N1862020.	one pit is 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	1:0.09 t/cu.m.	1:0.08 t/cu.m.	
2d	Quantity of topsoil generation in m3	No proposal.	Nil	
2e	Quantity of overburden generation in m3	249960 cu.m. during the year 2022-23.	179044 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	one	one	
3b	Quantity of ROM mineral production proposed	2751670 t during the year 2022-23.	2174000 t	actual limestone prodcution is less as compared to proposed quantityt in the approved mining plan. violation vide letter dated 27.07.2023 communicated to lessee.

I/16038/2023

3c	Recovery of sailable/usable mineral from ROM production	2751670 t	2174000 t
3d	Quantity of mineral reject generation	No proposal.	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No proposal.	Nil
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 cobmination 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	33.31 ha	28.9 ha

I/16038/2023

3n	Ore to OB ratio for the pit/mine during the year.	1:0.09 t/cu.m.	1:0.08 t/cu.m.
3o	Total area put in use under different heads at the end of year	51.05ha	45.37 ha
3p	Production of ROM mineral during the last five year period as applicable	2018-19: 1.2 mil.t. 2019-20: 1.2 mil.t. 2020-21: 2 mil.t. 2021-22: 2.75 mil.t. 2022-23: 2.75 mil.t.	2018-19: 1.19mil.t. 2019-20: 1.18 mil.t. 2020-21: 0.792 mil.t. 2021-22: 1.19 mil.t. 2022-23: 2.17 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
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 during the year 2022-23..	backfilling was not carried out by OB	violation vide letter dated 27.07.2023 communicated to lessee.
4b	Location of topsoil, OB and mineral reject dumps	OB backfilling is proposed at mineral exhaust area of pit during the year 2022-23.	OB temporary dumping was carried out at eastern side of the lease area.	violation vide letter dated 27.07.2023 communicated to lessee.

I/16038/2023

4c	Number of dumps within lease area and outside of lease area	No proposal.	One temporary dumping was carried out.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal.	Nil
4e	Number of active and alive dumps.	No proposal.	one temporary dump
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		OB backfilling was proposed, but OB temporary dumping was carried out

Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	proposed.	followed.	
5b	Area under backfilling of mined out area	0.95 ha during the year 2022-23.	Nil	mineral not extracted fully in the proposed area.

I/16038/2023

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 was not carried out as the mineral was not extracted fully in the proposed area.

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 before 1 st July.		
6b	Area available for rehabilitation (ha) .	No proposal.	Nil	
6c	afforestation done (ha).	0.4 ha during the year 2022-23.	0.4 ha	
6d	No. of saplings planted during the year	500 nos	2290 nos	
6e	Cumulative no .of plants		19192 nos	
6f	Any other method of rehabilitation	No proposal.	Nil	
6g	Cost incurred on watch and care during the year		Rs.661207	

I/16038/2023

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.95 ha	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.95 ha	Nil	Mineral not extracted fully in the proposed area.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No proposal.	Nil	
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	0.4 ha	0.4 ha	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.4 ha	0.4 ha	

I/16038/2023

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	plantation	plantation	
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.	proposed.	(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.	

I/16038/2023

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 was proposed by OB	not carried out as mineral was not extracted fully in the proposed area.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	backfilling was proposed by OB	not carried out as mineral was not extracted fully in the proposed area.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	backfilling was proposed by OB	not carried out as mineral was not extracted fully in the proposed area.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	500 nos	2290 nos	

I/16038/2023

8g	Survival rate	86%
8h	Water sprinkling water on roads to control airborne dust	carried out sprinkling on haul roads for dust suppression is proposed.
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 1, (ii) Diploma Mining Engineer 3, (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 28.900 ha, (ii) Used for waste disposal 12.440 ha, (iii) Occupied by plant, buildings, residential, welfare buildings and roads 4.030 ha etc.,	found to be in order.	

I/16038/2023

9d	Scrutiny of Annual return on afforestation	2290 nos	found to be in order.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	found to be in order.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock is Nil	found to be in order.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price Rs.201.76/t	Ex-mine price Rs.201.76/t
9h	Scrutiny of Annual return on fixed assets	Rs.18949194	Rs.18949194
9k	Scrutiny of Annual return on mining machineries	BACK HOE 2.800 CUM 2, BACK HOE 2.100 CUM 1, DOZER 180.000 HP 1 etc.,	found to be in order.

I/16038/2023

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