

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

MCDR inspection REPORT

Chennai regional office

Mine file No : TN/ALR/LST-28.MDS

Mine code : 38TMN38046

- (i) Name of the Inspecting : **D009**) **D.CHANDRA SEK HAR REDDY**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : P. Senthamilselvan AGM(mines) and I.Lakshminarayana
Official with
Designation
- (iv) Date of Inspection : 12/07/2023
- (v) Prev.inspection date : 21/07/2022

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KALLANKURICHI 25.105 HA**
- (b) **Registration NO.** : **IBM/638/2011**
- (c) **Category** : **A Fully Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **TAMIL NADU**
- District : **ARIYALUR**
- Village : **KALLANKURICHI**
- Taluka : **ARIYALUR**
- Post office : **KALLANKURICHI**
- Pin Code : **621705**
- FAX No. : **044-28478676**
- E-mail : **madhusudan.k@ramcocements.co**
- Phone : **044-28478666**
- (f) **Police Station** : **USENABAD**
- (g) **First opening date** : **10/01/2017**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **THE RAMCO CEMENTS LTD**
AURAS TOWERS, 98-A,RADHAKRISHNAN ROAD
MYLAPORE,CHENNAI-600004.
3. (a) **Lease Number** :
- (b) **Lease area** :
- (c) **Period of lease** :
- (d) **Date of Expiry** :
4. **Mineral worked** : **LIMESTONE** **Main**

5. Name and Address of the

Lessee : THE RAMCO CEMENTS LTD
 AURAS CORPORATE CENTRE 98-
 A,RADHAKRISHNAN ROAD
 MYLAPORE,CHENNAI CHENNAI
 CITY TAMIL NADU
 Phone:
 FAX :

Owner : P.R.VENKETRAMA RAJA
 98-A,AURAS CORPORATE CENTRE
 RADHAKRISHNAN
 SALAI,MYLAPORE CHENNAI
 CHENNAI CITY TAMIL NADU
 Phone:
 FAX :

Agent : MADHUSUDAN KULKARNI
 Govindapuram Works Sendurai
 Road Ariyalur ARIYALUR
 TAMIL NADU
 Phone: 9943300504
 FAX : 04329-226005

Mining Engineer

Name : K. Maheshkumar,Full Time
 Qualification : B.Tech. (Mining)
 Appointment/ : 16/08/2021
 Termination date

Geologist

Name : S.ArunKumar,Full Time
 Qualification : MSC (GEO)
 Appointment/ : 04/05/2023
 Termination date

Manager

Name : Shri.I.Lakshmi Naranaya,
 Qualification : BTECH MINING WITH FIRST CLASS
 Appointment/ : 01/07/2019
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	23/05/2016
Plan/Scheme of Mining		MP modif under 17(3) MCR 2016	04/04/2018
		MP modif under 17(3) MCR 2016	07/02/2020
		MP review under 17(1) MCR 2016	10/12/2020

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Proposal	NIL	Already the area had been explored under G1 category
1b	Exploration over lease area for geological axis 1 or 2	No proposal.	NIL	Already the area had been explored under G1 category
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NIL	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	Already the area had been explored under G1 category
1e	Balance reserve as on 01/04/20	1.50 Million Tonnes as on 01/04/2023.	1.50 Million Tonnes as on 01/04/2023.	NIL
1f	General remarks of inspecting officers on geology, exploration etc	—	—	Already the area had been explored under G1 category

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	SL-2-2' to SL-3-3' RL 88.00 m to 86.50 m	SL-2-2' to SL-3-3' RL 88.00 m to 86.50 m	As per proposal.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Marl benches-3 and Limestone benches- 2	Marl benches-3 and Limestone benches- 2	As proposed.
2c	Stripping ratio or ore to OB ratio	1:0.01	1:0.01	NIL
2d	Quantity of topsoil generation in m3	29430 tonnes.	28320 tonnes.	with in limits only.
2e	Quantity of overburden generation in m3	NIL	NIL	No overburden Generation .

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	—	—	The development of pit was satisfactory.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit.	One pit.	As per proposal.
3b	Quantity of ROM mineral production proposed	515265 tonnes during the year 2022-23.	During the year 2022-23 - 515051.14 tonnes produced.	with in limits.
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	Entire ROM consumed.
3d	Quantity of mineral reject generation	NIL	NIL	Entire ROM consumed.
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	NIL
3f	Quantity of sub grade mineral generation.	NIL	NIL	Entire ROM consumed.
3g	Grade of sub grade mineral generation	NA	NA	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA	No segregation of mineral. Entire ROM consumed.
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	Drilling & Blasting proposed on contingency condition	Drilling & Blasting carried out as and when required.	Non-conventional mining method adopted by engaging Xcentric Ripper

3k	Provision of mining machineries in mineral benches	Xcentric Ripper - 1 No Excavator- 1 No Tipper - 10 No's Water Tanker - 1 No	"Xcentric Ripper - 1 No Excavator- 1 No Tipper - 10 No's Water Tanker - 10000 Liters"	As per proposal.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6m height benches proposed.	6m height benches maintained.	As per proposal.
3m	Total area covered under excavation/pits	13.50 HC.	12.04 HC.	Within limit.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.01	1:0.01	As proposed.
3o	Total area put in use under different heads at the end of year	Area under mining - 13.50 HC Infrastructure - 0.20 HC. Roads - 0.50 HC. Others to be specified(Green belt) - 11.19.5HC	Area under mining - 12.04 HC Infrastructure - 0.20 HC. Roads - 0.50 HC. Others to be specified(Green belt) - 12.36.5 HC	with in limit.
3p	Production of ROM mineral during the last five year period as applicable	2019-20 - 999909 tonnes 2020-21 - 998070 tonnes 2021-22 - 923291 tonnes 2022-23 - 515265 tonnes 2021-22 - 923291 tonnes	2019-20 - 982613.94 tonnes 2020-21 - 998064.22 tonnes 2021-22 - 923287.22 tonnes 2022-23 - 515051.14 tonnes	with in limits.
3q	General remarks of inspecting officers on method of mining etc.	—	—	The method of mining was satisfactory.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposal given to store 29430 cu.m.	Top soil stored separately as per proposal.	Topsoil is being used for plantation.
4b	Location of topsoil, OB and mineral reject dumps	Between Latitude : 11:09:01.14 to 11:08:59.51 Between Longitude :79:06:29.93 to 79:06:31.51	As per proposal.	NIL
4c	Number of dumps within lease area and outside of lease area	One topsoil dump	As per proposal.	Topsoil from the dump is being used for plantation purpose.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	With in UPL	With in UPL.	NIL
4e	Number of active and alive dumps.	1	1	NIL
4f	Number of dead dumps.	NIL	NIL	NIL
4g	Number of dumps established.	NIL	NIL	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	NIL	NIL
4i	Length of Retaining wall or garland drain all along dumps	No proposal .	NIL	NIL
4j	Number of settling ponds	NIL	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management	—	—	Satisfactory.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposal.	NIL	Pit is proposed to convert into water reservoir after full extraction of mineral.
5b	Area under backfilling of mined out area	NIL	NIL	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposed.	Carried out.	Topsoil is being used for plantation purpose.
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	—	—	No backfilling or reclamation done, as mine is in devloping stage.

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).	Yes.	Submitted in time.	NIL
6b	Area available for rehabilitation (ha) .	NIL	NIL	NIL
6c	afforestation done (ha).	0.20 Hc	1.50 HC	NIL
6d	No. of saplings planted during the year	750 saplings	2000 saplings.	NIL
6e	Cumulative no .of plants	1600	17750	Cumulative.
6f	Any other method of rehabilitation	NIL	NIL	NIL
6g	Cost incurred on watch and care during the year	No estimate.	Rs. 200000/-	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	Water reservoir to be created upon exhaustion of mineral.
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	750 no's	2000 no's	Afforestation done.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.20 HC	1.50 HC.	Afforestation done.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Afforestation	Afforestation	As per proposal.

6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed.	Carried out on Quarterly basis.	All parameters with in limits.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	—	—	The PMCP compliance Satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No sorting proposal.	No sorting done.	Entire ROM consumed .
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NIL	NIL	NIL
7c	Different grade of mineral sorted out at mines.	NIL	NIL	NIL
7d	Any beneficiation process at mines .	No beneficiation proposals given.	NIL	Entire ROM consumed.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	—	—	Entire ROM consumed, satisfactory.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	proposed.	Carried out.	Topsoil used for plantation purpose.

8b	Concurrent use or storage of topsoil	proposed.	Carried out.	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No dumps exist .	NIL	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	No waste, rejects, fines generated.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposals given.	NIL	Pit is proposed to convert into water reservoir after full extraction of mineral.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	750 No's.	2000 No's.	14250 no's plantation done sofor.
8g	Survival rate	90%	80%	NIL
8h	Water sprinkling on roads to control airborne dust	Propose to engage Water Tanker for control airborne dust	10000 Liters water tanker has been engaged for sprinkling to control airborne dust	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	—	—	The aesthetic beauty in mining area is satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Given.	Submitted in time.	Provided in Part-I and para 7,8 & 9

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given.	I.Lakshminarayana- Mines manager Kesamsetti mahesh kumar- Mining engineer in-charge. s.Arun - Geologist.	Provided in Part-I and para 7,8 & 9
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given.	Area under mining - 12.04 HC. Infrastructure - 0.20 HC. Roads - 0.50 HC. others (green belt) - 12.36.5 HC.	NIL
9d	Scrutiny of Annual return on afforestation	Details given.	2000 saplings planted	Provided in Part-V and para 5
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL	Provided in Part-V and para 3
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given.	515051.14 tonnes.	Provided in Part-VI and para 1 & 2
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details given.	Ex-Mine price - Rs.228.87 for Limestone and 210.87 for Marl.	Provided in Part-VII
9h	Scrutiny of Annual return on fixed assets	Details given.	Rs.45889708.	Provided in Part-IIA and para 1
9k	Scrutiny of Annual return on mining machineries	Details given.	"Xcentric Ripper - 1 No Excavator- 1 No Tipper - 10 No's Water Tanker - 10000 Liters"	Provided in Part-V and para 6

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 :

(D.CHANDRA SEKHAR REDDY)

Indian Bureau of Mines