

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

MCDR inspection REPORT

Chennai regional office

Mine file No : TN/ALR/LST-29.MDS

Mine code : 38TMN38045

- (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 & Geologist, K.Abraham Mines m
Official with
Designation
- (iv) Date of Inspection : 23/09/2022
- (v) Prev.inspection date : 08/07/2021

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PERIYANAGALUR17.36.0 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 : PERIYANAGALUR
Taluka : ARIYALUR
Post office : ARIYALUR
Pin Code : 621704
FAX No. : 044-28478676
E-mail : magesh@ramcocements.co.in
Phone : 044-28478666
- (f) Police Station : Ariyalur
- (g) First opening date : 10/01/2017
- (h) Weekly day of rest : SUN
2. Address for : THE RAMCO CEMENTS LTD
correspondance : 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
 Ramasamiraja
 Nagar,Virudhnagar, Chennai-
 626204 VIRUDHUNAGAR TAMIL
 NADU
 Phone: 04562 256201 -
 FAX : 04562 256268

Agent : C. RAVICHANDRAN
 GENERAL MANAGER (Adm)
 MADRAS CEMENTS LTD,
 GOVINDAPURAM WORKS,
 SENDURAI ROAD ARIYALUR
 TAMIL NADU
 Phone: 04329-226001
 FAX : 04329-226005

Mining Engineer

Name : Muralidharan.M,Full Time
 Qualification : Dip.mining & Foreman certificate of comp
 Appointment/ : 05/07/2022
 Termination date

Geologist

Name : P.SENTHAMILSELVEM,Full Time
 Qualification : M.SC-GEOLOGY
 Appointment/ : 18/05/2018
 Termination date

Manager

Name : Shri.K.Abraham,
 Qualification : B.TECH MINING, FIRST CLASS CERTIFICATE
 Appointment/ : 18/05/2018
 Termination date

6. Date of approval of Mining	:	MP under 16(1) of MCR 2016	23/05/2016
Plan/Scheme of Mining	:	MP modif under 17(3) MCR 2016	04/04/2018
	:	MP review under 17(1) MCR 2016	23/02/2021

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal given.	NA	NIL
1b	Exploration over lease area for geological axis 1 or 2	NIL	Entire ML area has been explored by State Government agencies to G1 level.	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	--	6.26 million tonnes	NIL
1f	General remarks of inspecting officers on geology, exploration etc	—	—	Entire ML area fully explored.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Removal of Top soil proposed.	Carried out as per proposal.	Top soil utilised for plantation along lease boundary by making bund.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Topsoil proposed to be removed separately. No Over burden exist.	Topsoil removed and made bund along lease boundary for plantation purpose.	As per proposal.
2c	Stripping ratio or ore to OB ratio	1:0.04	1:0.04	As per proposal.
2d	Quantity of topsoil generation in m3	7100	6765	With in Limits.
2e	Quantity of overburden generation in m3	NIL	NIL	No over burden exist.

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

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit operation.	As per proposal, one pit in operation.	NIL
3b	Quantity of ROM mineral production proposed	299300 tonnes	299289.65 tonnes.	NIL
3c	Recovery of sailable/usable mineral from ROM production	Entire ROM to be consumed.	AS per proposal entire ROM transported to captive cement plant for blending and consuming.	NIL
3d	Quantity of mineral reject generation	NIL	NIL	NIL
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NIL	Entire ROM consumed.
3f	Quantity of sub grade mineral generation.	NIL	NIL	NIL
3g	Grade of sub grade mineral generation	NIL	NIL	No sub grade mineral generated.
3h	Manual / Mechanised method adopted for segregating from ROM	NIL	NIL	ROM tranported directly to plant.
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	Yes ,proposed drilling and blasting.	Adopted conventional method of mining using controlled blasting techniques.	NIL

3k	Provision of mining machineries in mineral benches	Yes. Deployment of machinery proposed.	Pneumatic drilling machine & compressor-1no Excavator EX-200-1 no. Tipper -7no's. Explosive van-1 no. Water tanker-1 no.	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6m height and width of bench proposed.	As per proposals only.	NIL.
3m	Total area covered under excavation/pits	6.28 Hc.	6.28 Hc	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:0.04	1:0.04	NIL
3o	Total area put in use under different heads at the end of year	Area under mining-6.28 Hc Infra -0.20 Roads 0.50 Hc Plantation-0.30 Hc	Area under mining-6.28 Hc Infra -0.20 Roads 0.50 Hc Plantation-0.50 Hc	NIL
3p	Production of ROM mineral during the last five year period as applicable	2018-19 - 299816 tonnes 2019-20 - 299896 tonnes 2020-21 - 299552 tonnes 2021-22 - 299300 tonnes	2018-19 - 299809.94 tonnes 2019-20 - 299888.70 tonnes 2020-21 - 299538.07 tonnes 2021-22 - 299289.65tonnes	production with in limits only.
3q	General remarks of inspecting officers on method of mining etc.	—	—	Satisfactory.The mining operation are as per approved proposals.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Topsoil generated proposed to utilise for afforestation programme. No OB/waste generation proposals.	As per proposals top soil utilised for afforestation programme.	NIL

4b	Location of topsoil, OB and mineral reject dumps	NIL	NIL	Top soil used for bund making along ML boundary.
4c	Number of dumps within lease area and outside of lease area	NIL	NIL	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NIL	NIL	NIL
4e	Number of active and alive dumps.	NIL	NIL	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.	NIL	NIL	NIL
4i	Length of Retaining wall or garland drain all along dumps	NIL	NIL	NIL
4j	Number of settling ponds	NIL	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management	—	—	No dumps proposed or maintained as per proposal in the plan.

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.	No backfilling proposals during the plan period 2021-22.	No back filling carried out.	NIL
5b	Area under backfilling of mined out area	No proposals.	NA	NIL

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposed.	Top soil utilised for afforestation .	NIL
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	—	—	No proposal, mine is in developing 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 .	MMCP report submitted in time.	NIL
6b	Area available for rehabilitation (ha) .	NIL	NIL	It is anew mine, workings are in developing state
6c	afforestation done (ha).	0.30 Hc	0.50 Hc.	NIL
6d	No. of saplings planted during the year	300	350	NIL
6e	Cumulative no .of plants	--	2000 (approx)	NIL
6f	Any other method of rehabilitation	NIL	NIL	NIL
6g	Cost incurred on watch and care during the year	—	0.50 lakhs.	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 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)	Quarterly environment monitoring proposed	Carried out	parameters are within permissible limits.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	—	—	Mining operation are started during may 2018. Mine is in advancing statge. Hence no reclamation and rehabilitation works .
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal for grade wise despatch.	Entire ROM transported to plant for utilisation.	NIL
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 .	NIL	NIL	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	—	—	Entire ROM transported to plant for captive consumption.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed to use the top soil for devlopment of Green belt along ML boundary.	Carried out as per proposals.	NIL
8b	Concurrent use or storage of topsoil	Yes, proposed.	Topsoil utilised as per proposal.	NIL

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No OB/waste/Rejects dumps envisaged.	No dump exist.	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NIL	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NIL	Mine is in developing stage.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	300 no.of plantation proposed.	350 no's carried out.	NIL
8g	Survival rate	90%	80%	NIL
8h	Water sprinkling on roads to control airborne dust	Proposed.	Water sprinkling by deploying a tanker.	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	—	—	Satisfactory. mine started during 2018.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted.	Monthly and Annual returns submitted for the year 2021-22.	NIL

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details given.	Geologist and Minin engineer Present during inspection.	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details furnished.	Area under mining:6.28 Hc. Infra : 0.20 Hc. Roads :0.50 Hc.Others :10.38 Hc.	NIL
9d	Scrutiny of Annual return on afforestation	350 no's.	350 no's	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details furnished.	299289.65 tonnes	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details given.	Rs.282.72 /tonne.	Ex-mine price is reasonable for such type of deposit.
9h	Scrutiny of Annual return on fixed assets	Details given.	Rs 11805796, furnished combinedly for group mines.	NIL
9k	Scrutiny of Annual return on mining machineries	Details given.	Pneumatic drilling Machine & compressor-1 no. Excavator-1no. Tipper-7 no's. Explosive van -1 no. Water tanker- 1no.	NIL

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