

**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 : **M017**) **Matiul Islam**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Mr.K.Abraham, Manager & Mr.P.Senthamilselvan, Geologi
Official with
Designation
- (iv) Date of Inspection : 24/12/2023
- (v) Prev.inspection date : 23/09/2022

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	Nil	Nil	Lease already fully explored upto G1 level
1b	Exploration over lease area for geological axis 1 or 2	G1	G1	-do-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	-do-
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	NA	-do-
1e	Balance reserve as on 01/04/20	5.96 Million Tons	5.96 Million Tons	-do-
1f	General remarks of inspecting officers on geology, exploration etc	-	-	The geology & exploration of the lease were found satisfactory.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N-200 to N-443 & E- 340 to E- 555	N-200 to N-443 & E- 340 to E-555	As proposed
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed	Separate benches maintained	-do-
2c	Stripping ratio or ore to OB ratio	1:0.10	1:0.10	-do-
2d	Quantity of topsoil generation in m3	16470 cu.m.	15616 cu.m.	-do-
2e	Quantity of overburden generation in m3	Nil	Nil	-do-

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

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit operation proposed	Single pit operation carried out	As proposed
3b	Quantity of ROM mineral production proposed	299940 Tons	299937.32 Tons	-do-
3c	Recovery of sailable/usable mineral from ROM production	100 % mineral recovered from ROM (299940 Tons)	100 % mineral recovered from ROM (299937.32 Tons)	-do-
3d	Quantity of mineral reject generation	Nil	Nil	-do-
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	-do-
3f	Quantity of sub grade mineral generation.	Nil	Nil	-do-
3g	Grade of sub grade mineral generation	NA	NA	-do-
3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA	-do-
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA	-do-
3j	Provision of drilling and blasting in mineral benches	Drilling & Blasting proposed	Controlled Drilling & Blasting practiced	-do-

3k	Provision of mining machineries in mineral benches	"Pneumatic drilling machine & compressor - 1 No Excavator-EX-200 - 1 No's Tipper - 7 No's Water Tanker - 1 No"	"Pneumatic drilling machine & compressor - 1 No Excavator-EX-200 - 1 No's Tipper - 7 No's Water Tanker - 1 No"	-do-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of the benches proposed to be maintained at 6.0 meters	Height of the benches maintained at 6.0 meters	-do-
3m	Total area covered under excavation/pits	9.23.0 Ha	9.23.0 Ha	-do-
3n	Ore to OB ratio for the pit/mine during the year.	1:0.10	1:0.10	-do-
3o	Total area put in use under different heads at the end of year	Area under mining 9.17.0 Storage for top soil 0.00.0 Overburden / dump 0.00.0 Mineral Storage 0.00.0 Infrastructure (workshop, administrative building) 0.20.0 Roads 0.50.0 Railways 0.00.0 Tailing pond 0.00.0 Area Backfilled 0.00.0 Others to be specified (green belt etc.,) 7.49.0	Area under mining 9.23.0 Storage for top soil 0.00.0 Overburden / dump 0.00.0 Mineral Storage 0.00.0 Infrastructure (workshop, administrative building) 0.20.0 Roads 0.50.0 Railways 0.00.0 Tailing pond 0.00.0 Area Backfilled 0.00.0 Others to be specified (green belt etc.,) 7.43.0	-do-

3p	Production of ROM mineral during the last five year period as applicable	2022-23 - 299940Tons 2021-22 - 299300Tons 2020-21 - 299552 Tons 2019-20 - 299896 Tons " 2018-19 - 299816 Tons "	2022-23 299937.32 Tons 2021-22 299289.65 Tons 2020-21 299538.07 Tons 2019-20 " 299888.70 Tons " 2018-19 299809.94 Tons	-do-
3q	General remarks of inspecting officers on method of mining etc.	-	-	The method of mining was found satisfactory.

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 be used concurrently. No OB or MR envisaged for the year.	Topsoil used concurrently. No OB or MR genereted.	As proposed
4b	Location of topsoil, OB and mineral reject dumps	NA	NA	-do-
4c	Number of dumps within lease area and outside of lease area	Nil	Nil	-do-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	-do-
4e	Number of active and alive dumps.	NA	NA	-do-
4f	Number of dead dumps.	Nil	Nil	-do-
4g	Number of dumps established.	NA	NA	-do-

4h	Whether Retaining wall or garland drain all along dumps are there.	NA	NA	-do-
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	-do-
4j	Number of settling ponds	NA	NA	-do-
4k	Specific comments of inspecting officer on waste dump management	-	-	No waste generation proposed or observed. No dump existing in the lease.

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 proposal during the current plan period	Nil	As proposed
5b	Area under backfilling of mined out area	Nil	Nil	-do-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Top soil proposed to be utilised in afforestation	Top soil utilised in afforestation	-do-
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	-do-
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	No backfilling or reclamation proposed or carried out during the plan period.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Proposed	Submitted in time	Along with Annual Return
6b	Area available for rehabilitation (ha) .	Nil	Nil	Nil
6c	afforestation done (ha).	0.30 Ha	0.30 Ha	As proposed
6d	No. of saplings planted during the year	300 nos	500 nos	-do-
6e	Cumulative no .of plants	-	2,550 nos	-do-
6f	Any other method of rehabilitation	Nil	Nil	Nil
6g	Cost incurred on watch and care during the year	Not specified	Rs 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	NA	NA	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NA	NA	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	Nil

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA	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)	NA	NA	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodic monitoring proposed	Periodic monitoring carried out	All parameters within norms
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	PMCP Compliance & progressive closure operations were found satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No sorting proposed	No sorting carried out	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	Nil

7c	Different grade of mineral sorted out at mines.	NA	NA	Nil
7d	Any beneficiation process at mines	Nil	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	Entire ROM generated is consumed. No issues were observed with mineral conservation. No beneficiation was proposed or carried out.

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Topsoil has been proposed to be used for development of Green belt on the Mining Lease Boundary, Safety Barrier etc.	Topsoil has been used for development of Green belt on the Mining Lease Boundary, Safety Barrier etc.	As proposed
8b	Concurrent use or storage of topsoil	Proposed	Carried out	-do-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No OB/Waste/Reject/Fines envisaged for the year	No OB/Waste/Reject/Fines generated during the year	-do-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	-do-

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	-do-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	300 nos saplings proposed to be afforested during the year	500 nos saplings planed during the year	-do-
8g	Survival rate	90%	90%	-do-
8h	Water sprinkling on roads to control airborne dust	Water tanker proposed to be deployed for water sprinkling	10000 Liters water tanker is deployed for sprinkling to control airborne dust	-do-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	Aesthetic beauty in and around mines area was found satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Given	Submitted	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager : Shri K.ABRAHAM Mining Engineer in charge: Shri M.MURALIDHARAN Geologist in charge : Shri P.SENTHAMILSELVAN	Given in Part I, Sl 7-9	Nil

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(i) Already exploited and abandoned by opencast (O-C) mining 0.000 0.000 0.000 (ii) Covered under current (O-C) Workings 0.000 9.230 9.230 (iii) Reclaimed-rehabilitated 0.000 0.000 0.000 (iv) Used for waste disposal 0.000 0.000 0.000 (v) Occupied by plant, buildings, residential, welfare buildings and roads 0.000 0.700 0.700 (vi) Used for any other purpose (specify) Green Belt & Others 0.000 7.430 7.430 (vii) Work done under progressive mine closure plan during the year 0.000 0.000 0.000	Given in Part I, Sl 12	Nil
9d	Scrutiny of Annual return on afforestation	i) Number of trees planted during the year 500 ii) Survival rate in percentage 90 iii) Total no. of trees at the end of the year 2550	Given in Part V, Sl 5	Nil

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Given in Part V, Sl 3	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Given in Part VI, Sl 2 & 3	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Rs 286.63/- per tonne	Given in Part VI, Sl 3 & Part VII	Nil
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assetes - Rs 1,32,91,704/-	Given in Part II A	Nil
9k	Scrutiny of Annual return on mining machineries	BACK HOE 1.100 CUM 1 Non Electrical Opencast AIR COMPRESSOR 450.000 CUM/MN 1 Non Electrical Opencast ROCK DRILL (NON-ELEC.) 115.000 MM 1 Non Electrical Opencast TIPPER 10.000 CUM 7 Non Electrical Opencast WATER TANKER 10000.000 LITRE 1 Non Electrical Opencast	Given in Part V, Sl 6	Nil

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

Date :

(Matiul Islam)

Indian Bureau of Mines