

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

MCDR inspection REPORT

Chennai regional office

Mine file No : TN/RP/LST-5.MDS

Mine code : 38TMN30002

- (i) Name of the Inspecting : **G039**) **G.C.Sethi**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : **K.SARAVANAN**
Official with
Designation
- (iv) Date of Inspection : 06/09/2023
- (v) Prev.inspection date : 24/08/2022

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PANDALGUDI**
- (b) **Registration NO.** : **IBM/638/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : TAMIL NADU
- District : VIRUDHUNAGAR
- Village : PANDALGUDI
- Taluka : ARUPPUKOTTAI
- Post office : PANDALGUDI
- Pin Code : 626113
- FAX No. : 04562-256268
- E-mail : adminrn@madrascements.co.in
- Phone : 04562-256201 / 256202
- (f) Police Station : Pandalgudi
- (g) First opening date : 03/10/1960
- (h) Weekly day of rest : SUN
2. Address for : M/s. RAMCO CEMENTS LIMITED
correspondance : RAMASAMY RAJA NAGAR POST
VIRUDUNAGAR DISTRICT - 626204
3. (a) Lease Number : TMN0020
- (b) Lease area : 4.75
- (c) Period of lease :
- (d) Date of Expiry : 31/03/2030
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 : S. RAMALINGAM
 Executive Director(Mines)
 NLC Ltd.,Administrative
 Office, Block-26, Neyveli-3
 CUDDALORE TAMIL NADU
 Phone: 04142-228376
 FAX : 04142-228376

Mining Engineer

Name : J.KANNAN,Full Time
 Qualification : BE (MINING)
 Appointment/ : 25/07/2018
 Termination date

Geologist

Name : R.RANGARAJ,Full Time
 Qualification : M.Sc GEOLOGY
 Appointment/ : 16/08/2019
 Termination date

Geologist

Name : R.SENTHILKUMARAN,Full Time
 Qualification : MSC (GEO)
 Appointment/ : 01/04/2012 15/08/2019
 Termination date

Manager

Name : S.KESAVAN
 Qualification : MSC(GEO)
 Appointment/ : 01/04/2015
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Fresh under rule 22 MCR1960 31/05/2000
 Mining Scheme rule 12 MCDR1988 25/08/2006
 Mining Scheme rule 12 MCDR1988 25/08/2006
 Mining Scheme rule 12 MCDR1988 25/08/2006
 Mining Scheme rule 12 MCDR1988 14/10/2011
 Mining Scheme rule 12 MCDR1988 14/10/2011
 Mining Scheme rule 12 MCDR1988 18/11/2011
 Mining Scheme rule 12 MCDR1988 04/03/2016
 MP modif under 17(3) MCR 2016 08/01/2021

MP review under 17(1) MCR 2016

18/03/2021

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Backlog	Nil	Nil
1b	Exploration over lease area for geological axis 1 or 2	G-1	G-1	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Lessee	Area was fully explored
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	The entire lease area already explored.
1e	Balance reserve as on 01/04/20	1210000 tons as per approved mining plan on 18.03.2021	628597 tons as per annual returns 2022-23	As on 01.04.2023
1f	General remarks of inspecting officers on geology, exploration etc		Entire lease area has been explored upto G-1 level.	Entire ML area has been drilled and proved upto 85m depth with 100m grid interval

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit-5 (ML-40 to 44.50) & Pit-6 (Pit-31.50 to 33)	Pit-5 (ML-40 to 44.50) & Pit-6 (Pit-31.50 to 33)	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Benches in OB-5 and Mineral-1	Benches in OB-5 and Mineral-1	Separate benches in OB and ore maintain
2c	Stripping ratio or ore to OB ratio	1 : 3.77	1 : 3.70	Nil
2d	Quantity of topsoil generation in m3	Nil	No generation of Topsoil	Nil
2e	Quantity of overburden generation in m3	401986 cu.m	276133 cu.m	Violation issued under Rule 11(1) of MCDR, 2017

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Nil	Violation issued for less development under Rule 11(1) of MCDR, 2017	Nil
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Pit-5 (ML-40 to 44.50) & Pit-6 (Pit-31.50 to 33)	Pit-5 (ML-40 to 44.50) & Pit-6 (Pit-31.50 to 33)	Nil
3b	Quantity of ROM mineral production proposed	304892 tons	209480 tons	Violation issued under Rule 11(1) of MCDR, 2017
3c	Recovery of sailable/usable mineral from ROM production	90%	90%	Nil
3d	Quantity of mineral reject generation	Nil	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	< 34 CaO	< 34 CaO	Threshold value maintain
3f	Quantity of sub grade mineral generation.	Nil	No Subgrade mineral generation	Nil
3g	Grade of sub grade mineral generation	Nil	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechainzed method	Mechainzed method	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Drilling & blasting Proposed	Deep hole drilling and balsting with delay detonators in practice.	Nil

3k	Provision of mining machineries in mineral benches	Proposed	Deployed	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height - 9m	Bench height - 9m	Bench height and width is facilitating for moving of Mining machinery
3m	Total area covered under excavation/pits	62.50 ha	62.50 ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1 : 3.77	1 : 3.70	Nil
3o	Total area put in use under different heads at the end of year	160.95 ha	160.95 ha	Nil
3p	Production of ROM mineral during the last five year period as applicable	2018-19 = 305438 tons 2019-20 = 305188 tons 2020-21 = 305500 tons 2021-22 = 304978 tons 2022-23 = 304892 tons	2018-19 = 299736 tons 2019-20 = 302069 tons 2020-21 = 303815 tons 2021-22 = 288586 tons 2022-23 = 209480 tons	Less production due to less plant requirement for reduced production of cement
3q	General remarks of inspecting officers on method of mining etc.	Nil	Mine development in mechanised method	Nil

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Seperate dumping proposed	Dumping carried out separately on existing OB dump	Nil
4b	Location of topsoil, OB and mineral reject dumps	OB Dump (ML-36 to 40)	OB Dump (ML-36 to 40)	Nil

4c	Number of dumps within lease area and outside of lease area	15 Nos	within ML-2 Nos, Partly outside-11 Nos	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	Nil
4e	Number of active and alive dumps.	1 No	1 No	Nil
4f	Number of dead dumps.	10 Nos	10 Nos	Nil
4g	Number of dumps established.	4 Nos	4 Nos	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	900m x 3m x 1m	Inactive sides of dumps area covered by Garland drainage.
4i	Length of Retaining wall or garland drain all along dumps	No Proposal	900m x 3m x 1m	Inactive sides of dumps area covered by Garland drainage.
4j	Number of settling ponds	2 Nos	2 Nos	Dimension of ponds 50m x 30m x 3m.
4k	Specific comments of inspecting officer on waste dump management	Nil	Dumps maintained as per proposal	Nil

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.	Nil	No Proposal	Nil
5b	Area under backfilling of mined out area	Nil	Nil	No Proposal
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	No topsoil generation

5d	Total area fully reclaimed and rehabilitated	Nil	No Proposal	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Nil	An area of 2.80 ha of mined out area reclaimed, cumulatively done	Nil

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	Annual report on PMCP for the year 2022-23
6b	Area available for rehabilitation (ha) .	Nil	Nil	Nil
6c	afforestation done (ha).	No Proposal	Nil	Nil
6d	No. of saplings planted during the year	No Proposal	Nil	Nil
6e	Cumulative no .of plants	No Proposal	Nil	Nil
6f	Any other method of rehabilitation	No Proposal	Nil	Nil
6g	Cost incurred on watch and care during the year	No Proposal	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No Proposal	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal	Nil	Nil

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No Proposal	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No Proposal	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	2200 Nos saplings proposed	86600 Nos of saplings planted	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	1.79 ha	4.17 ha	Nil
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	No Proposal	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodically monitored	Quarterly report submitted	Environmental parameters are within limits
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Nil	PMCP proposal have been complied	Nil

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	No sorting of ROM proposed	Entire ROM is transported for cement making	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical Method	Mechanical Method	Nil
7c	Different grade of mineral sorted out at mines.	No Proposal	Nil	Nil
7d	Any beneficiation process at mines	No Proposal	No Processing of Mineral is involved	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Nil	ROM transported to crusher located outside ML, having color based sorting technology is being used for beneficiation of limestone.	Nil

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No generation	Nil	Topsoil not generated during 2022-23
8b	Concurrent use or storage of topsoil	No Proposal	No generation	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Seperate dumps are maintain	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	Nil	Nil

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Nil	86600 nos of plantation	Nil
8g	Survival rate	90%	85%	Nil
8h	Water sprinkling on roads to control airborne dust	10 KL water tanker	water tanker is being used for dust suppression	As per proposal
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Nil	Planted local species of neem, pungai, vagai etc	Nil

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted	Monthly & Annual returns are submitted in online	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer and Geologist are appointed	Accompained during inspection.	Nil

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O/C) Workings 62.50ha; Used for waste disposal 26.20ha; Occupied by plant, buildings, residential, welfare buildings & roads-14.0ha; Other Purpose (Green Belt , Safety Zone & Others)- 81.180ha;	Furnished under part- I.	Nil
9d	Scrutiny of Annual return on afforestation	86600 saplings	Furnished under part-V.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Furnished in part- V, of 4	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	209480 tons	Furnished in part- VI	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production is Rs.567/-	Furnished in part- VII	Nil
9h	Scrutiny of Annual return on fixed assets	Rs.48909141/-	Furnished in part- II-A	Nil
9k	Scrutiny of Annual return on mining machineries	Backhoe, Front end Loader, Tipper, Water Tanker	Furnished in part- V sec 6	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
MCDR17	Rule 11(1)	15/09/2023			
MCDR17	Rule 33	15/09/2023			

Date :

(G.C.Sethi)

Indian Bureau of Mines