

**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 : Mr Sendilkumar
Official with
Designation
- (iv) Date of Inspection : 24/08/2022
- (v) Prev.inspection date : 08/09/2021

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.	Nil.	Area was fully explored.
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	0.821MT	0.838MT	As on 1.4.2022
1f	General remarks of inspecting officers on geology, exploration etc		Entire lease area has been explored up to G1 level.	Entire ML area has been drilled and proved upto 85m depth with 150m interval.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	ML - 28 to 33.	ML - 28 to 33.	Nil.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Benches in OB-5 and in Limestone-1.	Benches in OB-5 and in Limestone-1.	Separate benches in top soil, OB and Ore maintained.
2c	Stripping ratio or ore to OB ratio	1:3.66.	1:3.60	Nil.
2d	Quantity of topsoil generation in m3	Nil.	No generation of top soil.	Nil.
2e	Quantity of overburden generation in m3	390140.	363255.	Nil.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Pit no 6 is programmed for the year 2021-22	Nil.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit ie pit no-6.	One pit ie pit no-6.	ML - 28 to 33.
3b	Quantity of ROM mineral production proposed	304,978Ts	288,586Ts	Nil.
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.	<35 CaO.	<35 CaO.	Nil.
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	Mechanized method.	Mechanized method.	As per plan.
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	Yes.	Deep hole drilling, blasting and blasting with delay detonators in practice .	Nil.

3k	Provision of mining machineries in mineral benches	Yes.	Bench height as 9m and width 9 to 12 m.	As per proposals.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height-9m.	Bench height-9m.	Suitable for mining.
3m	Total area covered under excavation/pits	61.86ha.	61.86ha.	Nil.
3n	Ore to OB ratio for the pit/mine during the year.	1:3.66	1:3.60	Nil.
3o	Total area put in use under different heads at the end of year	160.95ha	160.95ha	As per Proposal.
3p	Production of ROM mineral during the last five year period as applicable	2017-18=3,05,500Ts 2018-19=3,05,438Ts 2019-20=3,05,188Ts 2020-21=3,05,500Ts 2021-22=3,04,978	2017-18=3,04,602Ts 2018-19=2,99,736Ts 2019-20=3,02,069Ts 2020-21=303,815.84Ts 2021-22 =2,88,586Ts	The achieved production is a little bit lower side against the approved proposal.
3q	General remarks of inspecting officers on method of mining etc.		The mine development is leading scientific line.	

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate 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 ML-39 Location: N 90 22' 13" E 780 06' 26"	OB Dump ML-36 to ML-39 Location: N 90 22' 13" E 780 06' 26"	Nil.

4c	Number of dumps within lease area and outside of lease area	15 Nos .	Within ML-2 Nos,Partly Outside ML-11 Nos and Outside ML-2 Nos	Nil.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside Ultimate Pit Limit.	Outside Ultimate Pit Limit.	Nil.
4e	Number of active and alive dumps.	2nos.	2nos.	Nil.
4f	Number of dead dumps.	10nos.	10nos.	Nil.
4g	Number of dumps established.	3nos.	3nos.	Stablised.
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposal.	900mX3mX1m.	Inactive sides of the dumps area covered by Garland drains and earthen bunds.
4i	Length of Retaining wall or garland drain all along dumps	Nil.	900mX3mX1m	Inactive sides of the dumps area covered by Garland drains and earthen bunds.
4j	Number of settling ponds	2nos.	2nos.	Dimensions od ponds 50m x 30m x 3m.
4k	Specific comments of inspecting officer on waste dump management			Dumps maintained as proposed.

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.	An area of 2.80ha of mined out area reclaimed.	Nil.
5e	General remarks of inspecting officers on backfilling and reclamation etc.		The mined out area has been reclaimed by the waste generated during the mining operations.	Nil.

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	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 2021-22.
6b	Area available for rehabilitation (ha) .	Nil.	Nil.	Nil.
6c	afforestation done (ha).	1.09ha	17.22ha	Nil.
6d	No. of saplings planted during the year	1300nos.	3,51,500Saplings.	Nil.
6e	Cumulative no .of plants	-	More than 40,000plantation.	Nil.
6f	Any other method of rehabilitation	Nil.	Nil.	Nil.
6g	Cost incurred on watch and care during the year	Not specified.	No details.	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 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	No proposal.	Nil.	Nil.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal.	Nil.	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 with in limits.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP proposals have been complied.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Entire ROM at pit head.	Entire ROM is transported .	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.	Nil.	Nil.	Nil.
7d	Any beneficiation process at mines .	Nil.	No processing of mineral is involved.	Nil.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		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.	Top soil not utilized during the Year 2021-2022.
8b	Concurrent use or storage of topsoil	Nil.	No generation.	Nil.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes.	Separate dumps are maintained.	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)	Not available.	About 40,000plantation.	Extensive plantation in 17.22 Ha carried out during the year 2021-22
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.	Air born dust is controlled.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation with 351500 nos of neem, pungai and Vagai varities planted.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted.	Monthly returns are being submitted within due time. AR for the year 2021-22 has also been submitted.	Nil.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer in charge- J.KANNAN; Geologist in charge- R.RENGARAJ; Manager-S.KESAVAN	Accompanied 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;Reclai med/Rehabilita ted- 2.80ha;Used for waste disposal- 26.20ha; Occupied by plant, buildings, resi dential, welfare buildings & roads- 14.00ha;Other Purpose (Green Belt & amp; Area to be mined)- 81.18ha	Furnished under Part-I of sl.no.12.	Nil.
9d	Scrutiny of Annual return on afforestation	351500saplings	Furnished under Part-V of para 4.4.	Nil.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil.	Furnished under Part-V of section 4.	Nil.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	288,586 Ts	Furnished inn Part-VI at sl no.1	Nil.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price Rs.551.47	Furnished inn Part-VI of sno.2.	Nil.
9h	Scrutiny of Annual return on fixed assets	Rs.49080600/-	Furnished under Part- IIA.	Nil.

9k	Scrutiny of Annual return on mining machineries	FRONT END LOADER-3.000 CUM-1 unit;BACK HOE- 0.900 CUM -2 units;TIPPER- 12.000CUM- 7units; BLAST HOST DRILL-115MM-i unit;AIR COMPRESSOR- 400.00 CUM/MN- 1unit.	Furnished in Part-V of section- 5...	Nil.
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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 :

(G.C.Sethi)

Indian Bureau of Mines