

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

**MCDR inspection REPORT**

**Chennai regional office**

**Mine file No :** TN/TCR/LST-50-Mds

**Mine code :** 38TMN14037

- (i) Name of the Inspecting : **G039** ) **G.C.Sethi**  
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Thiru. N J Reddy, GM (Mines)  
Official with  
Designation
- (iv) Date of Inspection : 17/12/2023
- (v) Prev.inspection date : 09/03/2023

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **PERIYAKURICHI**
- (b) **Registration NO.** : **IBM/613/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : TAMIL NADU
- District : PERAMBALUR
- Village : PERIYAKURICHI
- Taluka : SENDURAI
- Post office : PERIYAKURICHI
- Pin Code : 621719
- FAX No. : 04329-48248
- E-mail : icldal@eth.net
- Phone : 04329-48201 to 48207
- (f) Police Station : Sendurai
- (g) First opening date : 19/09/1992
- (h) Weekly day of rest : SUN
2. Address for : The India Cements Ltd.,  
correspondance : Coramandel Towers,93,Karpagam Avenue,  
R.A.Puram,Chennai
3. (a) Lease Number : TMN1032
- (b) Lease area : 56.55
- (c) Period of lease : 50
- (d) Date of Expiry : 04/03/2042
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : THE INDIA CEMENTS LIMITED  
 DHUN BUILDING 827, ANNA  
 SALAI CHENNAI CITY TAMIL  
 NADU  
 Phone:044-28521526, 28521527,28572100,28572400  
 FAX :044-28526311

Owner : Lakshmi Aparna Sreekumar  
 M/S India Cements Ltd.,  
 827,Anna salai,DHUN  
 Building Chennai CHENNAI  
 CITY TAMIL NADU  
 Phone:  
 FAX :

Agent : P.Balasubramaniyan  
 M/S The India Cements Ltd.,  
 827,Annasalai, DHUN  
 Building Chennai CHENNAI  
 CITY TAMIL NADU  
 Phone:  
 FAX :

## Mining Engineer

Name : C.MESVIN,Full Time  
 Qualification : BE (MINING)  
 Appointment/ : 01/12/2016  
 Termination date

## Geologist

Name : K.MANI,Full Time  
 Qualification : MSC(GEOLOGY)  
 Appointment/ : 19/10/2017  
 Termination date

## Manager

Name : C.MESVIN  
 Qualification : BE(MINING)  
 Appointment/ : 01/12/2016  
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	23/02/1989
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	27/03/1992
		Mining Scheme rule 12 MCDR1988	09/05/2002
		Mining Scheme rule 12 MCDR1988	15/02/2007
		Renewal under rule 24 MCR1960	10/05/2012
		MP review under 17(1) MCR 2016	23/11/2016
		MP modif under 17(3) MCR 2016	03/11/2021
		MP review under 17(1) MCR 2016	05/11/2021

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal for the year 2022-23	Nil	The total mining lease area has already been explored.
1b	Exploration over lease area for geological axis 1 or 2	G1	G1	36 exploration boreholes were drilled with total merage of 865.23m.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal	Not applicable	Exploration carried out by The India cements team.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	Not applicable	Entire area has been explored under G-1 category
1e	Balance reserve as on 01/04/20	2.57 million tons as per the RMP approved on 05.11.2021	2.34 million tons as per the 2022-23 annual return.	Cement Grade Limestone.
1f	General remarks of inspecting officers on geology, exploration etc	Nil	Entire area has been explored up to G1 level.	Entire ML area has been drilled and proved.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	300N-700N and 800E-1200 E .	300N-700N and 800E-1200 E .	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, One bench for Top Soil/Overburden Bench, Two benches for limestone.	Yes, One bench for Top Soil/Overburden Bench, Two benches for limestone.	Nil
2c	Stripping ratio or ore to OB ratio	1:1.27	1:1.36	Deviation due to generation of waste in higher side
2d	Quantity of topsoil generation in m3	9100 tons of Tospoil has proposed	4290 tons of Topsoil has been generated	Violation issued under Rule 11(1) of MCDR, 2017

2e	Quantity of overburden generation in m3	99800 cum of OB has been proposed	110448 cum of OB has been generated	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 Tospoil & OB generation.	Nil

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	Nil
3b	Quantity of ROM mineral production proposed	248425 tons	245538 tons	Nil
3c	Recovery of sailable/usable mineral from ROM production	149055 tons	149054 tons	Nil
3d	Quantity of mineral reject generation	99370 tons	96484 tons	Nil
3e	Grade of mineral rejects generation and threshold value declared.	SiO2 >18.0%	SiO2 >18.0%	Nil
3f	Quantity of sub grade mineral generation.	No Proposal	Not generated	Not Applicable
3g	Grade of sub grade mineral generation	No Proposal	Not generated	Not applicable
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method	Mechanised method	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not applicable	No beneficiation is carried out	Not Applicable

3j	Provision of drilling and blasting in mineral benches	No Proposal	Not generated	Drilling and blasting not carried out.
3k	Provision of mining machineries in mineral benches	Back Hoe-2, Rock Breaker-1, Tipper-3, Front End Loader-1 & water tanker-1	As proposed the machineries are deployed.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Top soil & Overburden-6m, Limestone-6m	Top soil & Overburden-6m, Limestone-6m	Nil
3m	Total area covered under excavation/pits	25.90.0 ha	25.50.0 ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:1.27	1:1.36	Deviation due to generation of waste in higher side
3o	Total area put in use under different heads at the end of year	Area under mining-25.90.0, Overburden dump-15.09.5, Roads-1.80.0, Protective-0.72.0	Area under mining-25.50.0, Overburden dump-15.34.5, Roads-1.80.0, Protective-0.72.0	Nil
3p	Production of ROM mineral during the last five year period as applicable	2018-19 =374669 Tons 2019-20 =374013 Tons 2020-21=373918 Tons 2021-22=213132 Tons 2022-23=248425 Tons	2018-19= 314371 Tons 2019-20=241406 Tons 2020-21=313869 Tons 2021-22=191878 Tons 2021-22=245538 Tons	Nil
3q	General remarks of inspecting officers on method of mining etc.	Nil	Mining operation is being done by opencast mechanised means.	Nil

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Solid Waste Management - Dumping:

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Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Top soil and overburden is planned for backfilling and stablised with plantations.	Top soil and overburden is used for backfilling and stablised with plantations.	Nil
4b	Location of topsoil, OB and mineral reject dumps	Western , Eastern and Northern side of ML. Top soil-300N to 500N and1000E to 1200E. Overburden 0n to 0N to 800N AND 0E to 800E, 1000E to 1300E.	Western , Eastern and Northern side of ML. Top soil-300N to 500N and1000E to 1200E. Overburden 0n to 0N to 800N AND 0E to 800E, 1000E to 1300E.	Area covered by waste dump is 15.34.5 hectares and topsoil is 1.18.0 hectares in eastern side.
4c	Number of dumps within lease area and outside of lease area	Three dumps	Three dumps	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dumps are planned out side of UPL	Dumps are out side of UPL	Nil
4e	Number of active and alive dumps.	Active dump-Nil, Alive-Back filling	Active dump-Nil, Alive-Back filling	Nil
4f	Number of dead dumps.	Three	Three	Stabilized with Plantation
4g	Number of dumps established.	Two	Two	Stablised with plantations.
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed	Done as per proposal	Garland drain are already made
4i	Length of Retaining wall or garland drain all along dumps	Garland drain proposed along the existing dump	Garland drain constructed	Garland drain for length of 1825m.
4j	Number of settling ponds	Settling pit already exists.	Settling pit already exists.	Seven settling pits are made

4k	Specific comments of inspecting officer on waste dump management	Nil	Garland Drainage has made	Nil
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#### 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.	Part backfilling proposed	Back filled in Mined out area	Nil
5b	Area under backfilling of mined out area	0.70.0	0.30.0	Violation issued under Rule 11(1) of MCDR, 2017
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Yes	Yes	Nil
5d	Total area fully reclaimed and rehabilitated	1.00.0	1.00.0	Rehabilitated by plantations.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Nil	Partly backfilled 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	Yes, submitted to IBM	Nil
6b	Area available for rehabilitation (ha) .	7.00.0 ha	7.00.0 ha	Nil
6c	afforestation done (ha).	1.00.0	1.00.0	Nil

6d	No. of saplings planted during the year	700 nos	800 nos	Nil
6e	Cumulative no .of plants	18456	18556	Nil
6f	Any other method of rehabilitation	Backfilling & Afforestation	Backfilling & Afforestation	Nil
6g	Cost incurred on watch and care during the year	Rs 2.00 Lakhs	Rs 2.00 Lakhs	As per proposal
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	210m*60m*12.0m	180m*40m*12.0m	Violation issued under Rule 11(1) of MCDR, 2017
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	298190 Tons	277966 tons	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	700 nos	800 nos	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)	Yes	Complied. Env.monitoring is being done quarterly.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Nil	Plantations done as per the proposed number for compliance to PMCP proposals.	Nil

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Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	248425 tons	245538 tons	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanized Method	Mechanized Method	Nil
7c	Different grade of mineral sorted out at mines.	No Mineral sorted out	Nil	Nil
7d	Any beneficiation process at mines	No Proposal	No processing of mineral is involved.	Not applicable

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Nil	The limestone are produced from the mine is utilized for cement making in the captive plant of the company. So, there is no mineral conservation problem in the mine.	Nil
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**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	9100 cum of topsoil has proposed.	4290 cum of topsoil has generated.	Violation issued under Rule 11(1) of MCDR, 2017
8b	Concurrent use or storage of topsoil	Concurrent usage is proposed	Concurrently used	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not applicable	Not applicable	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Partly backfilling has proposed	As per proposal backfilling has not done	Violation issued under Rule 11(1) of MCDR, 2017
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Partly backfilling has proposed	Partly backfilling has not done	Violation issued under Rule 11(1) of MCDR, 2017
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	700	800	Nil
8g	Survival rate	90%	91.3%	Nil

8h	Water sprinkling on roads to control airborne dust	Yes	Yes	Water sprinkling is being done by water tanker.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Nil	Plantation has been done as per proposal.	Nil

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted	Submitted	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager, Geologist & mining engineer are appointed.	Provided in part-I (3)	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O/C) Workings 9.450ha; Reclaimed - Rehabilitated 9.05ha; Used for waste disposal 15.345ha; Occupied by plant, buildings, residential, welfare buildings & roads-2.10ha; Other Purpose (Green Belt , Safety Zone & Others)- 6.90ha;	Provided in part-I, Sl.No-12	Nil
9d	Scrutiny of Annual return on afforestation	800	Provided in part-V, Para-5	Nil

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9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not shown	Furnished in part- V, of 4	Violation issued under Rule 11(1) of MCDR, 2017
9f	Scrutiny of Annual return on ROM stock and/or graded ore	245538 tons	Provided in part-VI, Para-2	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex.Mine Price=Rs 325.83 Production Cost=Rs 325.830	Furnished in part- VII	Nil
9h	Scrutiny of Annual return on fixed assets	Rs. 1300342456/- for group of 7 leases	Provided in part -II (A)	Nil
9k	Scrutiny of Annual return on mining machineries	Yes	Mentioned in part -V, Sec-6, -	Nil

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**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
MCDR17	Rule 11(1)	28/12/2023			

**Date :**

**(G.C.Sethi)**

Indian Bureau of Mines