

**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 : **M017** ) **Matiul Islam**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : C.Mesvin, Senior Manager, (Mines), P.Vignesh, Officer  
Official with  
Designation
- (iv) Date of Inspection : 09/03/2023
- (v) Prev.inspection date : 07/07/2022

**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	Nil	Nil	Lease already fully explored upto G1 level.
1b	Exploration over lease area for geological axis 1 or 2	G1	G1	36 exploration boreholes drilled with total meterage of 865.23m.
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	0.701 Million Tons	0.701 Million Tons	As per Modification to the approved Mining Plan
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	Between section lines 300N-700N and 900E-1200 E	Between section lines 300N-700N and 900E-1200 E	As proposed
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes , Two overburden bench, Three ore benches.	Yes , Two overburden bench, Three ore benches.	Separate bench for topsoil, overburden & mineral are being maintained.
2c	Stripping ratio or ore to OB ratio	1:1.046	1:1.60	Nil
2d	Quantity of topsoil generation in m3	3,903 cu.m.	5,176 cu.m.	Variation due to irregular thickness of top soil

2e	Quantity of overburden generation in m3	1,55,747 tonnes	93,046.55 tonnes	Variation due to lithological variations over the deposit
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	Development of the pit was found satisfactory.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	As proposed
3b	Quantity of ROM mineral production proposed	2,13,132 tonnes	1,91,878.16 tonnes	Within limit
3c	Recovery of sailable/usable mineral from ROM production	1,38,364 Tonne	1,38,220.70 Tonne	-do-
3d	Quantity of mineral reject generation	74,768 Ts	53,657.46 Ts	-do-
3e	Grade of mineral rejects generation and threshold value declared.	SiO2 >18.0%	SiO2 >18.0%	Nil
3f	Quantity of sub grade mineral generation.	Nil	Nil	Nil
3g	Grade of sub grade mineral generation	NA	NA	Nil
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.	Nil	Nil	Nil

3j	Provision of drilling and blasting in mineral benches	Non-conventional mining without drilling & blasting proposed	Non-conventional mining without drilling & blasting carried out	As proposed
3k	Provision of mining machineries in mineral benches	Back Hoe-2, Rock Breaker-1, Tipper-3, Front End Loader-1 & water tanker-1	Back Hoe-2, Rock Breaker-1, Tipper-3, Front End Loader-1 & water tanker-1	-do-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 m bench height proposed	6 m bench height maintained	Suitable
3m	Total area covered under excavation/pits	25.24.5 ha	25.24.5 ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:1.046	1:1.60	Nil
3o	Total area put in use under different heads at the end of year	56.55 Ha	56.55 Ha	Nil
3p	Production of ROM mineral during the last five year period as applicable	"2017-18 =374900 Ts 2018-19 =374669 Ts 2019-20=374013.00 Ts 2020-21=373918.00 Ts 2021-22=213132.00 Ts"	"2017-18=372986.60 Ts 2018-19= 314371.40 Ts 2019-20=241406.75 Ts 2020-21=313869.25 Ts 2021-22=191878.16 Ts"	Within limit
3q	General remarks of inspecting officers on method of mining etc.	-	-	The method of mining was found satisfactory.

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Solid Waste Management - Dumping:

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Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumps proposed	Separate dumps maintained	As proposed
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.	-do-
4c	Number of dumps within lease area and outside of lease area	Three dumps within lease area	Three dumps within lease area	-do-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	-do-
4e	Number of active and alive dumps.	Nil	Nil	Backfilling under progress
4f	Number of dead dumps.	Three	Three	Afforested
4g	Number of dumps established.	Two	Two	-do-
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	Garland drain all along dumps
4i	Length of Retaining wall or garland drain all along dumps	Only maintenance of pre-existing drains proposed	Only maintenance of pre-existing drains carried out	1825 m length of garland drain already exists
4j	Number of settling ponds	Pre-existing settling ponds proposed to be maintained	Pre-existing settling ponds maintained	Seven nos of settling pits existing
4k	Specific comments of inspecting officer on waste dump management	-	-	Waste dump management was found satisfactory

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Backfilling proposed into mined out areas	Backfilling carried out into mined out areas	As proposed
5b	Area under backfilling of mined out area	0.70.0 Ha	0.30.0 Ha	Violation already pointed out for deviation in backfilling
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposed	Carried out	As proposed
5d	Total area fully reclaimed and rehabilitated	0.70.0 Ha	0.30.0 Ha	Violation already pointed out for deviation in backfilling
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	Violation already pointed out for deviation in backfilling.

#### 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	In time
6b	Area available for rehabilitation (ha) .	3.85 Ha	3.45 Ha	Nil
6c	afforestation done (ha).	0.70.0 Ha	0.70.0 Ha	As proposed
6d	No. of saplings planted during the year	800 nos	800 nos	-do-
6e	Cumulative no .of plants	3,600 nos saplings proposed to be planted during the plan period	17,756 no saplings planted cumulatively	Nil

6f	Any other method of rehabilitation	Nil	Nil	Nil
6g	Cost incurred on watch and care during the year	Rs 2.00 Lakhs	Rs 2.00 Lakhs	Nil
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	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Waste	Waste	As proposed
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	800 nos	800 nos	-do-
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)	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)	Periodical monitoring proposed	Periodical monitoring carried out	All parameters within norms
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	Violation already pointed out for deviation in backfilling.

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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 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	-	-	No issues were observed with conservation. No beneficiation proposed or carried out.

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#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal & utilisation of topsoil proposed	Separate removal & utilisation of topsoil carried out	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)	OB proposed to be backfilled into worked out benches. No rejects or fines envisaged.	OB backfilled into worked out benches.	-do-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling proposed	Backfilling carried out	-do-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	-do-	-do-	-do-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	3,600 nos. saplings proposed to be afforested in the plan period.	17,756 nos. saplings planted cumulatively since inception.	-do-
8g	Survival rate	90%	92.5%	-do-
8h	Water sprinkling on roads to control airborne dust	Proposed	Carried out	Water tanker deployed
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	The aesthetic beauty in and around mines area was found satisfactory.

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Compliance of Rule 45:

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Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Given	Submitted in time	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manager: C.Mesvin Mining Engineer: C.Mesvin Geologist: P.Vignesh	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 & abandoned by opencast (O/C) mining 0.000 5.000 5.000 (ii) Covered under current (O/C) Workings 0.000 12.645 12.645 (iii) Reclaimed/Rehabilitated 0.000 7.700 7.700 (iv) Used for waste disposal 0.000 15.345 15.345 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 1.900 1.900 (vi) Other Purpose (Top Soil, Peripheral Bund and Green Belt) 0.000 6.900 6.900	Given in Part I, Sl 12	Nil

9d	Scrutiny of Annual return on afforestation	4.4 (i) Number of trees planted during the year (a) Within lease area 800 (b) Outside lease area 0 (ii) Species 0 (iii) Survival rate in percentage 92.50	Given in Part V, Sl 4.4	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	4.2 (B) (ii) Mineral Rejects generated with grades (tonnes)  a. Quantity 53657  b. Grade 45 4.3 Underground	Given in Part V, Sl 4.2	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	category Opening stock (in tonne) Production (in tonne) Closing stock (in tonne) (a) Open Cast Workings 0.000 138220.700 0.000	Given in Part VI, Sl 1	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price & Cost of Production - Rs 285.00 per tonne	Given in Part VI, Sl 2 & Part VII	Nil
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets - Rs 1,32,02,22,171 /-	Given in Part II A Capital Structure	Nil

9k	Scrutiny of Annual return on mining machineries	Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) BACK HOE 0.900 CUM 2 Non Electrical Opencast BACK HOE 1.600 CUM 1 Non Electrical Opencast WHEEL LOADER 1.800 CUM 1 Non Electrical Opencast TIPPER 4.500 CUM 3 Non Electrical Opencast WATER TANKER 10000.000 LITRE 1 Non Electrical Opencast	Given in Part V, Sl 5	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

Date :

(Matiul Islam)

Indian Bureau of Mines