

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

**MCDR inspection REPORT**

**Chennai regional office**

**Mine file No :** TN/PBR/LST-22.Mds

**Mine code :** 38TMN24054

- (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 & Thiru. Bhaskaran, Geolog  
Official with  
Designation
- (iv) Date of Inspection : 09/07/2023
- (v) Prev.inspection date : 13/01/2023

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **ALTHIYUR-160.73(GO.103)**
- (b) **Registration NO.** : **IBM/613/2011.**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : TAMIL NADU  
District : PERAMBALUR  
Village :  
Taluka :  
Post office :  
Pin Code :  
FAX No. : -  
E-mail : mines@indiacement.co.in  
Phone : 044-28521526.
- (f) Police Station : ALATHIYUR
- (g) First opening date : 10/10/2001
- (h) Weekly day of rest : SUN
2. Address for : INDIA CEMENTS LTD  
correspondance : Coramandal Towers,  
R A Puram,Chennai
3. (a) Lease Number : TMN0992
- (b) Lease area : 160.73
- (c) Period of lease : 50
- (d) Date of Expiry : 16/10/2055
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 : Shri.T.BALASUBRAMANIAN  
 dALAVOI WORKS, CEMENT NAGAR  
 POST, SENDURAI  
 TALUK,ARIYALUR DISTRICT  
 ARIYALUR TAMIL NADU  
 Phone: 04329 248206  
 FAX :

## Mining Engineer

Name : K.ANANDKUMAR,Full Time  
 Qualification : AMIE(MINING ENGINEERING)  
 Appointment/ : 29/03/2019  
 Termination date

## Geologist

Name : G.BALU,Full Time  
 Qualification : MSC(GEO), FCC  
 Appointment/ : 15/10/2018  
 Termination date

## Manager

Name : G.BALU  
 Qualification : MSC(GEO),FCC  
 Appointment/ : 07/10/2020  
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	17/02/2005
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	06/01/2012
		Mining Scheme rule 12 MCDR1988	22/03/2016
		MP review under 17(1) MCR 2016	11/11/2020

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Proposal	Nil	Nil
1b	Exploration over lease area for geological axis 1 or 2	Geological axis - 1.	Geological axis - 1.	Entire lease area are under G-1 category.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not applicable	Not applicable	Entire area has been explored under G-1 category with 100m X 100m grid interval.
1e	Balance reserve as on 01/04/20	32.826 million tons as per the ROMP	31.857 million tons	Cement Grade Limestone.
1f	General remarks of inspecting officers on geology, exploration etc	It is belongs to Niniyur stage of Cretaceous system.	No exploration has been done during 2022- 23. Entire area has been explored up to G1 level.	Entire ML area has been drilled and proved upto 74.15m

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Working proposed between the co-ordinates N 500 to N 1400 and E 800 to E 1400.	Development is not carried out as per proposal. Worked between the co-ordinates N 500 to N 1200 and E 800 to E 1100.	Violation issued under Rule 11(1) of MCDR, 2017.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches have been proposed.	One bench in Topsoil, five bench in OB & 3 benches in Ore.	Nil
2c	Stripping ratio or ore to OB ratio	1 : 8.18	1 : 2.71	The deviation is due to lesser development during 2022-23.
2d	Quantity of topsoil generation in m3	132190 cu.m of topsoil has been proposed	No Topsoil generation	Violation issued under Rule 11(1) of MCDR, 2017.

2e	Quantity of overburden generation in m3	950394 cu.m of OB has been proposed	303705 cu.m of OB has been achieved.	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	The Production & Development have lapsing behind the proposal during the year 2022-23 for which violation has been pointed out under Rule 11(1) of MCDR, 2017.	Nil

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single Pit	Single Pit	Nil
3b	Quantity of ROM mineral production proposed	346343 tons	292699 tons	Nil
3c	Recovery of sailable/usable mineral from ROM production	90% Recovery	95% Recovery	Higher recovery is due to lithological disturbances in the area.
3d	Quantity of mineral reject generation	34634 tons	12772 tons	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Silica more than 18%	Silica more than 18%	Nil
3f	Quantity of sub grade mineral generation.	No Proposal	Not generated	Not Applicable
3g	Grade of sub grade mineral generation	No Proposal	Nil	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	Drilling & Blasting are proposed.	Drilling & Blasting being done	Nil
3k	Provision of mining machineries in mineral benches	Surface miner, Backhoe, Tippers, Rock Breakers Dozer	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	Bench height - 5m and width 6- m	Bench height -5m and width 6- m	Nil
3m	Total area covered under excavation/pits	74.77 ha	64.60 ha	Due to less production and development
3n	Ore to OB ratio for the pit/mine during the year.	1 : 8.18	1 : 2.71	The deviation is due to lesser development. Violation issued under Rule 11(1) of MCDR, 2017.
3o	Total area put in use under different heads at the end of year	Land use Pattern as on 01.04.2023. Mines = 74.77 hect Dump = 3.74 hect Road = 2.20 hect	Land use Pattern as on 01.04.2023. Mines = 64.60 hect Dump = 3.74 hect Road = 2.20 hect	Due to less production and development
3p	Production of ROM mineral during the last five year period as applicable	2022-2023 = 346343 tons 2021-2022 = 346437 tons 2020-2021 = 1961552 tons 2019-2020 = 2431705 tons 2018-2019 = 1285947 tons	2022-2023 = 292699 tons 2021-2022 = 225116 tons 2020-2021 = 233410 tons 2019-2020 = 277800 tons 2018-2019 = 368363 tons	Less limestone production due to less plant requirement.

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:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No Dumping proposal	Dumping not in practice	Nil
4b	Location of topsoil, OB and mineral reject dumps	No Dumping proposal	Not done	Nil
4c	Number of dumps within lease area and outside of lease area	Lease area = 5 Non Lease area = Nil	Lease area = 5 Non Lease area = Nil	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.	Lease area = 5	Lease area = 5	Nil
4f	Number of dead dumps.	No Proposal	Nil	Nil
4g	Number of dumps established.	No Proposal	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposal	Nil	Nil
4i	Length of Retaining wall or garland drain all along dumps	No Proposal	Nil	Nil
4j	Number of settling ponds	No Proposal	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	Nil	Existing old dumps are present for Topsoil, OB & Mineral Rejects	Nil

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Solid Waste Management - Backfilling:

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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 has been proposed.	Backfilling has not done as per proposal.	Violation issued under Rule 11(1) of MCDR, 2017.
5b	Area under backfilling of mined out area	2.25 ha	0.60 ha.	Violation issued under Rule 11(1) of MCDR, 2017.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Concurrent use of Topsoil	Concurrent use of Topsoil	Nil
5d	Total area fully reclaimed and rehabilitated	1.50 ha	1.50 ha	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Nil	0.03 ha has been Backfilling against proposal of 0.22 ha	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	PMCP report for the year 2022-23 has been submitted
6b	Area available for rehabilitation (ha) .	1.50 ha	1.50 ha	Nil
6c	afforestation done (ha).	1.50 ha	1.50 ha	Nil
6d	No. of saplings planted during the year	1000 nos	1000 nos	Nil
6e	Cumulative no .of plants	29825 nos	29825 nos	Nil
6f	Any other method of rehabilitation	Backfilling & Afforestation	Backfilling & Afforestation	Nil
6g	Cost incurred on watch and care during the year	2.00 lakhs	2.00 lakhs	Nil

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	470m x 48m x 52m	390m x 30m x 45m	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	2291649 tons	772035 tons	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	1.50 ha	1.50 ha	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	Periodical monitoring.	Environmental parameters are within limits.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Nil	More plantations done against the proposed number for compliance to PMCP proposals.	PMCP proposals have been complied.

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	346343 tons	292699 tons	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised method	Mechanised method	Nil
7c	Different grade of mineral sorted out at mines.	Lumps & Fines	Lumps & Fines	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	Achieved ROM Production is 292699 tons during 2022- 2023 against proposal of 346343 tons.	Nil

#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed for separate removal and utilization of topsoil.	No Topsoil generation	Violation issued under Rule 11(1) of MCDR, 2017.

8b	Concurrent use or storage of topsoil	Concurrent Use	No Topsoil generation	Violation issued under Rule 11(1) of MCDR, 2017.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not applicable	Nil	Existing old dumps are present for Topsoil, OB & Mineral Rejects
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling	Backfilling has not done as per proposal.	Violation issued under Rule 11(1) of MCDR, 2017.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling	Backfilling has not done as per proposal.	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1000 saplings proposed	1000 saplings planted.	Plantation has been done as per proposal.
8g	Survival rate	No Such proposal in document	92%	Nil
8h	Water sprinkling on roads to control airborne dust	Water Sprinkling	Water Sprinkling is being done on roads to control airborne dust.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Nil	Concurrent backfilling followed by plantation in systematic practice.	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	Returns are submitted within time limit.	Both Annual & Monthly returns are submitted in online.

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager, Geologist & mining engineer are appointed.	During inspection Mining Engineer, Geologist is present.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O/C) Workings 45.22ha; Reclaimed - Rehabilitated 15.380ha; Used for waste disposal 3.740ha; Occupied by plant, buildings, residential, welfare buildings & roads-2.30ha; Other Purpose (Green Belt , Safety Zone & Others)- 19.550ha;	Furnished under part- I.	Nil
9d	Scrutiny of Annual return on afforestation	1000 saplings	Furnished under part-V.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	309163 cu.m of OB & mineral reject	Furnished in part- V, of 4	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	292699 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.339/-	Furnished in part- VII	Nil
9h	Scrutiny of Annual return on fixed assets	Rs.1300342456/ -	Furnished in part- II-A	Nil
9k	Scrutiny of Annual return on mining machineries	Surface Miner, Shovel, Tipper, Dozer, 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 couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	13/07/2023			

**Date :**

**(G.C.Sethi)**

Indian Bureau of Mines