

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

**Mining Plan Modification REPORT**

**Chennai regional office**

**Mine file No :** TN/TCR/LST-66-Mds

**Mine code :** 38TMN24003

- (i) Name of the Inspecting : **M017** ) **Matiul Islam**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : J. B. Reddy, QP & GM(Mines) & R. Balamurugan, AGM (Mi  
Official with  
Designation
- (iv) Date of Inspection : 15/12/2023
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **ADHANAKURICHI**
- (b) **Registration NO.** : **IBM/613/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : TAMIL NADU
- District : ARIYALUR
- Village : ADHANAKURICHI
- Taluka : SENDURAI
- Post office : CEMENT NAGAR
- Pin Code : 621730
- FAX No. : 04329-248248
- E-mail : j.thirumeni@indiacements.co
- Phone : 04329-248206
- (f) Police Station : DALAVOI
- (g) First opening date : 06/01/1996
- (h) Weekly day of rest : SUN
2. Address for : THE INDIA CEMENT LTD.  
correspondance Dalavoi Cement Works, Cement Nagar PO-621730.  
Sendurai Taluk,Ariyalur DT.
3. (a) Lease Number : TMN1042
- (b) Lease area : 47.42
- (c) Period of lease : 50
- (d) Date of Expiry : 02/02/2054
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 : K.Rathinavel,Full Time  
 Qualification : BE(MINING)  
 Appointment/ : 20/05/2016  
 Termination date

## Geologist

Name : S.Nirmalkalam,Full Time  
 Qualification : MSc Geology  
 Appointment/ : 21/01/2021  
 Termination date

## Manager

Name : G.BALU  
 Qualification : MSC(GEO),FCC  
 Appointment/ : 15/09/2003  
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	18/02/2003
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	15/02/2007
		Mining Scheme rule 12 MCDR1988	06/01/2012
		Mining Scheme rule 12 MCDR1988	06/01/2012
		Mining Scheme rule 12 MCDR1988	10/05/2012
		Mining Scheme rule 12 MCDR1988	22/03/2016
		MP review under 17(1) MCR 2016	10/11/2020

## 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	-do-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	-do-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	-do-
1e	Balance reserve as on 01/04/20	3.724 Million tonnes	3.847 Million tonnes	-do-
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 N 200 to N 900 & E 600 to E 1200.	Development not carried out as per proposal	Violation already pointed out by previous inspecting officer.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, One Top Soil Bench, one overburden bench, three ore benches.	Yes, One Top Soil Bench, one overburden bench, three ore benches.	-do-
2c	Stripping ratio or ore to OB ratio	1:0.29	1:0.10	Deviation due to less production, violation for which has already been pointed out by previous inspecting officer.

2d	Quantity of topsoil generation in m3	Nil	Nil	-do-
2e	Quantity of overburden generation in m3	Nil	Nil	-do-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	Violations have already been pointed by previous inspecting officer for deviation from development proposals.

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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	378865 tonnes	199719.66 tonnes	Violation already pointed by previous inspecting officer.
3c	Recovery of sailable/usable mineral from ROM production	304578 tonnes	182372.44 tonnes	Nil
3d	Quantity of mineral reject generation	78287 tonnes	17347.22 tonnes	Violation already pointed by previous inspecting officer
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

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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	Nil	Nil	Non-conventional mining proposed & carried out without drilling & blasting.
3k	Provision of mining machineries in mineral benches	Surface miner, Back Hoe-1, Tipper-2, Rock breaker-1, Dozer-1	Surface miner, Back Hoe-1, Tipper-2, Rock breaker-1, Dozer-1	As proposed
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench Height in OB & Mineral - 6 mt	Bench Height in OB & Mineral - 6 mt	Suitable for method of mining proposed
3m	Total area covered under excavation/pits	20.65.0 Ha	20.65.0 Ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.29	1:0.10	Deviation due to lesser production, violation for which has already been pointed by previous inspecting officer.
3o	Total area put in use under different heads at the end of year	Area under mining - 20.65 Ha Dumps - 8.50 Ha Mineral Storage - 0.60 Ha Road - 1.64 Ha	Area under mining - 20.65 Ha Dumps - 8.50 Ha Mineral Storage - 0.35 Ha Road - 1.64 Ha	Within limits
3p	Production of ROM mineral during the last five year period as applicable	2018-19=538007 Ts 2019-20=615158 Ts 2020-21=621000 Ts 2021-22=356179 Ts 2022-23=378865 Ts	2018-19=311849.26 Ts 2019-20=204219.60 Ts 2020-21=264958.20 Ts 2021-22=176659.38 Ts 2022-23=199719.66 Ts	-do-

3q	General remarks - of inspecting officers on method of mining etc.	-	-	Violations have already been pointed by previous inspecting officer for under- achievement of excavation targets.
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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 TS, OB removal envisaged for the year. MR proposed to be backfilled into mined out benches.	No TS, OB removed. MR backfilled into mined out benches.	As proposed
4b	Location of topsoil, OB and mineral reject dumps	Nil	Nil	-do-
4c	Number of dumps within lease area and outside of lease area	One	One	-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	-do-
4f	Number of dead dumps.	1	1	-do-
4g	Number of dumps established.	Nil	Nil	-do-
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal for the year	Nil	Previously constructed garland drain maintained.
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	-do-
4j	Number of settling ponds	No proposal for the year	Nil	Previously constructed settling ponds maintained

4k	Specific comments of inspecting officer on waste dump management	-	-	There was no generation of OB or TS. MR generated has been proposed & backfilled into worked out benches.
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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.	Backfilling proposed in mined out benches	Backfilling carried out in mined out benches	Violation pointed out by previous inspecting officer for inadequate backfilling w.r.t. proposal.
5b	Area under backfilling of mined out area	0.22.0 ha	0.03.0 ha	-do-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No TS generation envisaged	No TS generated	Nil
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	Violation already pointed out by previous inspecting officer for deviation from backfilling proposal.

#### 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	Along with Annual Return

6b	Area available for rehabilitation (ha) .	0.15.0 Ha	0.15.0 Ha	As proposed
6c	afforestation done (ha).	0.15.0	0.15.0	-do-
6d	No. of saplings planted during the year	150 nos	300 nos	-do-
6e	Cumulative no .of plants	12481 nos	12631 nos	-do-
6f	Any other method of rehabilitation	Nil	Nil	-do-
6g	Cost incurred on watch and care during the year	Rs 1.50 Lakhs	Rs 2.00 Lakhs	-do-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	30m*70m*18m	10m*30m*18m	Violation already pointed out by previous inspecting officer for inadequate backfilling w.r.t. proposal.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	78287 Ts	17347.22 Ts	-do-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	0.22.0 Ha	0.03.0 Ha	-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)	Nil	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodic monitoring proposed	Periodic monitoring carried out	All parameters within norms
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	Violation has already been pointed out by the previous inspecting officer for inadequate PMCP compliance.

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Size based sorting proposed	Size based sorting carried out	As proposed
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanized Method	Mechanized Method	-do-
7c	Different grade of mineral sorted out at mines.	Lumps and fines	Lumps and fines	-do-
7d	Any beneficiation process at mines	Nil	Nil	-do-

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	No issues were observed with mineral conservation. No beneficiation was proposed or carried out.
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### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Nil	Nil
8b	Concurrent use or storage of topsoil	NA	NA	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No OB/Fines removal envisaged. MR generated proposed to be backfilled.	Nil	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	MR proposed to be backfilled into mined out benches.	MR backfilled into mined out benches.	Violation pointed out by previous inspecting officer for inadequate backfilling w.r.t. proposal.
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)	12481 nos plantation proposed cumulatively.	12631 nos plantation done cumulatively.	300 nos sapling planted during the year against a proposal for 150 nos.
8g	Survival rate	Not specified in approved document	90%	Nil

8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed	Water tankers deployed apart from permanent water sprinkling systems.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	Aesthetic beauty in and around mines area was found satisfactory.

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Compliance of Rule 45:

Sl.No.	Item	Proposals	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	Manager : G.Balu Mining Engineer in charge: K. Rathinavel Geologist in charge : K.Gokulnath	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 and abandoned by opencast (O-C) mining 0.000 1.970 1.970 (ii) Covered under current (O-C) Workings 0.000 14.900 14.900 (iii) Reclaimed-rehabilitated 0.000 3.780 3.780 (iv) Used for waste disposal 0.000 8.500 8.500 (v) Occupied by plant, buildings, residential, welfare buildings and roads 0.000 1.640 1.640 (vi) Used for any other purpose (specify) Green belt, Periphery bund and Mineral Storage 0.000 7.410 7.410	Given in Part I, Sl 12	Nil
9d	Scrutiny of Annual return on afforestation	i) Number of trees planted during the year 300 ii) Survival rate in percentage 93.3 iii) Total no. of trees at the end of the year 12631	Given in Part V, Sl 5	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	7542.27 cu.m	Given in Part V, Sl 4	Nil

9f	Scrutiny of Annual return on ROM stock and/or graded ore	(e) Cement 31741.450 182372.440 181608.580 32505.310 339.75	Given in Part VI, Sl 3.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Rs 339.75/- per tonne	Given in Part VI, Sl 3 & Part VII	Nil
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets Rs 1,30,03,42,456 /-	Given in Part II A	Nil
9k	Scrutiny of Annual return on mining machineries	BACK HOE 1.200 CUM 1 Non Electrical Opencast TIPPER 8.000 CUM 2 Non Electrical Opencast DOZER 324.000 HP 1 Non Electrical Opencast OTHER HEM MACHINERY 0.000 1 Non Electrical Opencast PUMPS (ELEC.) 830.000 L/MN 1 Electrical Opencast	Given in Part V, Sl 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

Date :

(Matiul Islam)

Indian Bureau of Mines