

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

**MCDR inspection REPORT**

**Chennai regional office**

**Mine file No :** TN/PT/LST-19.MDS

**Mine code :** 38TMN24038

- (i) Name of the Inspecting : S011 ) SALIL SANDIP KUJUR  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : P RAMASAMY,AVP-MINES J PRIESTY MACAULAY-DGM-MINES  
Official with  
Designation
- (iv) Date of Inspection : 25-FEB-20
- (v) Prev.inspection date : 16-AUG-19

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : ALATHIYUR(17.58)
- (b) **Registration NO.** : IBM/613/2011
- (c) **Category** : A Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : TAMIL NADU
- District : PERAMBALUR
- Village :
- Taluka :
- Post office :
- Pin Code :
- FAX No. : 04329-248248
- E-mail : icldal@eth.net
- Phone : 04329-248201
- (f) **Police Station** : ALATHIYUR
- (g) **First opening date** : 21-JUN-00
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : ADANAKURICHI LST MINES  
P.O-DOLVOI,INDIA CEMENTS LIMITED  
TAMILNADU-621730
3. (a) **Lease Number** : TMN0654
- (b) **Lease area** : 17.58
- (c) **Period of lease** : 30
- (d) **Date of Expiry** : 28-OCT-29
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 : R K DAS, THE INDIA CEMENT LTD  
 Coramandel Tower,  
 93,Karpagam Avenue Sandome  
 high road, R.A.Puram  
 CHENNAI CITY TAMIL NADU  
 Phone: 044-28521526,28  
 FAX : 04428526311, 04

## Mining Engineer

Name : P.ARUNKUMAR,Full Time  
 Qualification : B.E(MINING)  
 Appointment/ : 13-JUL-16  
 Termination date

## Geologist

Name : G.BALU,Full Time  
 Qualification : MSC(GEO), FCC  
 Appointment/ : 15-OCT-18  
 Termination date

## Manager

Name : G.BALU  
 Qualification : MSC(GEO),FCC  
 Appointment/ : 15-OCT-18  
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	17-FEB-05
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	05-JUL-11
	:	Mining Scheme rule 12 MCDR1988	17-APR-15
	:	MP review under 17(1) MCR 2016	11-NOV-19

## 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 2018-19	Nil	The total mining lease area has already been explored and the requirement of G1 level has been met.
1b	Exploration over lease area for geological axis 1 or 2	G1	G1	18 exploration boreholes were drilled with total merage of 393.40m with 200m*200m & 100m * 100m grid interval.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NA	Exploration carried out by The India cements Limited.
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	Not required
1e	Balance reserve as on 01/04/20	1.414 Million tonnes	1.414 Million tonnes	Nil
1f	General remarks of inspecting officers on geology, exploration etc	-	-	Satisfactory

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Planned in ML-0 to ML-2 and 100-400E & ML-2 to ML-6 and 300 to 600E	Actual working in ML-0 to ML-2 and 100-400E	Due to plant requirement, minimized the production.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, One Top Soil bench, One Overburden Bench, Three benches in Limestone.	Yes, One Top Soil bench, One Overburden Bench, Three benches in Limestone.	As per Plan.

2c	Stripping ratio or ore to OB ratio	1:0.31	1:0.20	Within limit
2d	Quantity of topsoil generation in m3	"2015-16=0.00, 2016-17=0.00, 2017-18=0.00, 2018-19=0.00, 2019-20=0.00"	"2015-16=0.00, 2016-17=0.00, 2017-18=0.00, 2018-19=0.00, 2019-20=0.00"	As per Plan
2e	Quantity of overburden generation in m3	"2015- 16=67109.38, 2016- 17=63912.50, 2017- 18=33412.50, 2018- 19=79646.88, 2019-20=0.00"	"2015-16=30616.64, 2016-17=55930.64, 2017-18=31737.50, 2018-19=0.0, 2019-20=0.00"	Within limit
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	--	--	Satisfactory

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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One, 520m*260m*36m	One, 520m*260m*36m	Only one Pit, as proposed
3b	Quantity of ROM mineral production proposed	519915	397194.24	Within limit
3c	Recovery of sailable/usable mineral from ROM production	493919	330054.24	Limestone production is Within limit
3d	Quantity of mineral reject generation	25996	67140.00	Due to statigraphical deviation
3e	Grade of mineral rejects generation and threshold value declared.	SiO2 >18.0%	SiO2 >18.0%	As per Plan.
3f	Quantity of sub grade mineral generation.	No subgrade generation	No subgrade generation	Nil

3g	Grade of sub grade mineral generation	--	--	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized Method	Mechanized Method	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No	No	Beneficiation Study done in Initial Period
3j	Provision of drilling and blasting in mineral benches	No	No	Mining by Non-conventional method
3k	Provision of mining machineries in mineral benches	Surface Miner - 1, Tipper - 5	Surface Miner - 1, Tipper - 5	Water tanker is commonly used for GO.765&103
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Overburden-5m, Limestone-5m	Overburden-5m, Limestone-5m	As proposed
3m	Total area covered under excavation/pits	12.16.0 Hec	12.16.0 Hec	As proposed
3n	Ore to OB ratio for the pit/mine during the year.	1:0.31	1:0.20	Nil
3o	Total area put in use under different heads at the end of year	"2015-16 =501916 Ts, 2016-17=504123 Ts, 2017-18=508477 Ts, 2018-19=493919 Ts, 2019-20=477215 Ts"	"2015-16=353366.86 Ts, 2016-17=215380.34 Ts, 2017-18=173277.94 Ts, 2018-19=330054.24 Ts, 2019-20=157971.08 Ts"	Limestone production within limits

3p	Production of ROM mineral during the last five year period as applicable	"2015-16 =501916 Ts, 2016-17=504123 Ts, 2017-18=508477 Ts, 2018-19=493919 Ts, 2019-20=477215 Ts"	"2015-16=353366.86 Ts, 2016-17=215380.34 Ts, 2017-18=173277.94 Ts, 2018-19=330054.24 Ts, 2019-20=157971.08 Ts"	Limestone production within limits
3q	General remarks of inspecting officers on method of mining etc.	--	--	Satisfactory

#### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	Yes	Presently concurrently used
4b	Location of topsoil, OB and mineral reject dumps	Western side of ML(100-200E & ML-1-3)	Western side of ML(100-200E & ML-1-3)	As per proposal
4c	Number of dumps within lease area and outside of lease area	"One Dump within ML & Back filled"	One Dump within ML, &Back filled	As per proposal
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside Ultimate Pit Limit (UPL).	Outside Ultimate Pit Limit (UPL).	As per proposal
4e	Number of active and alive dumps.	No active dump & One dead dump	No active dump & One dead dump	As per proposal
4f	Number of dead dumps.	One	One	As per Proposal
4g	Number of dumps established.	One	One	As per proposal
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	Garland Drain are already made

4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	Garland Drain existed for 1200m
4j	Number of settling ponds	Nil	Nil	Pit used as water settling pond
4k	Specific comments of inspecting officer on waste dump management	--	--	Satisfactory

#### 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.	Back filled in Mined out area	Back filled in Mined out area	As per plan
5b	Area under backfilling of mined out area	0.23.0	0.20.0	Within limits
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	0.48.0	0.48.0	Rehabilitated by plantations.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	--	--	Satisfactory

#### 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 on 17.06.2019 for the year 2018-19

6b	Area available for rehabilitation (ha) .	6.00.0 ha	6.00.0 ha	As per plan
6c	afforestation done (ha).	0.48.0	0.48.0	As per plan
6d	No. of saplings planted during the year	600 nos	600 nos	As per plan
6e	Cumulative no .of plants	Nil	10393	Nil
6f	Any other method of rehabilitation	Backfilling & Afforestation	Backfilling & Afforestation	As per plan
6g	Cost incurred on watch and care during the year	Rs 0.66 lakhs	Rs 0.66 lakhs	As per plan
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	80m*25m*15m	70m*25m*13m	Within limits
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	153431 Ts	67140 Ts	Reduced Production & Reduced OB led to Reduced Void generation & thus reduced backfilling. Within limits
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	0.23.0	0.20.0	Within limits
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	NA
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA	NA

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No waste land available with in lease area	No waste land available with in lease area	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA	NA
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	NA
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Complied. Environment monitoring is being done quarterly.	Environmental monitoring is being done season wise.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	--	--	Satisfactory

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Dispatch of ROM Limestone and beneficiation by mobile screen	Dispatch of ROM Limestone and beneficiation by mobile screen	As per plan
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanized Method	Mechanized Method	As per plan
7c	Different grade of mineral sorted out at mines.	Yes	Yes	As per plan
7d	Any beneficiation process at mines	Screening by Mobile Screen	Screening by Mobile Screen	As per plan

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	--	--	Satisfactory
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	No topsoil removal	As per proposal
8b	Concurrent use or storage of topsoil	No Proposal	No Proposal	No Proposal
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	As per plan
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Yes	As per plan
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Yes	As per plan
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	NA	10393	As per plan
8g	Survival rate	90%	90%	As per plan

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	--	--	Satisfactory

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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	NA
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	Provided in part-I	Mining Engineer- P.Arunkumar - 13.07.2016/ Geologist -G.Balu- 15.10.2018/Manager -J.Priestly Macaulay- 15.09.2003.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	"Provided in part-I, Sl.No-12 Covered under current (O/C) Workings-12.16.0, Occupied by plant, buildings, residential, welfare buildings & roads- 1.50.0, Other Purpose (Green belt, Periphery bund)- 1.89.0"	"Provided in part-I, Sl.No-12 Covered under current (O/C) Workings-12.16.0, Occupied by plant, buildings, residential, welfare buildings & roads-1.50.0, Other Purpose (Green belt, Periphery bund)- 1.89.0"
9d	Scrutiny of Annual return on afforestation	Yes	"Provided in part-V, Para-4.4 600 nos"	"Provided in part-V, Para-4.4 600 nos"
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Yes	"Provided in part-V, of 4.2 (B) 67140 Ts "	"Provided in part-V, of 4.2 (B) 67140 Ts "

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9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	Provided in part-VI, Para-2	Provided in part-VI, Para-2
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	" Provided in part VI and Part-VII. Ex.Mine Price=Rs 288.32 Production Cost=Rs 288.32"	" Provided in part VI and Part-VII. Ex.Mine Price=Rs 288.32 Production Cost=Rs 288.32"
9h	Scrutiny of Annual return on fixed assets	Yes	"Provided in part -II (A) 1107206379"	This FA is for 7 Mining Leases of M/s The India Cements Limited, Dalavoi.
9k	Scrutiny of Annual return on mining machineries	"Surface Miner-1, Tipper-5"	"Mentioned in part -V, Sec-5/6/8/9. Surface Miner-1, Tipper-5"	Water tanker is commonly used for GO.765&103

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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 :**

(SALIL SANDIP KUJUR)

Indian Bureau of Mines