

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

**MCDR inspection REPORT**

**Chennai regional office**

**Mine file No :** TN/TCR/LST-43-Mds

**Mine code :** 38TMN24005

- (i) Name of the Inspecting : S011 ) SALIL SANDIP KUJUR  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : MR RAMESH DGM-MINES & MR BHASKER-GEOLOGIST  
Official with  
Designation
- (iv) Date of Inspection : 16-OCT-20
- (v) Prev.inspection date : 05-JAN-20

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : PUDUPALAYAM
- (b) **Registration NO.** : IBM/613/2011
- (c) **Category** : A Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : TAMIL NADU
- District : PERAMBALUR
- Village : PUDUPPALAYAM
- Taluka : ARIYALUR
- Post office : REDDIPALAYAM
- Pin Code :
- FAX No. : 04329-248248
- E-mail : dal\_mines @indiacements co
- Phone : 044-28521526,28521527,2857:
- (f) **Police Station** : ARIYALUR
- (g) **First opening date** : 11-DEC-89
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : INDIA CEMENTS LIMITED  
DHUN BUILDING, NO.827, ANNA SALAI  
CHENNAI - 2
3. (a) **Lease Number** : TMN1034
- (b) **Lease area** : 29.3
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 08-FEB-09
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 : K.RAJENDRAN  
 THE INDIA CEMENTS LTD  
 DALAVOI WORKS ARIYALUR  
 TAMIL NADU  
 Phone: 04329-248222, 9994895501  
 FAX : 04329-248248

## Mining Engineer

Name : E.MOHAN,Full Time  
 Qualification : B.E MINING  
 Appointment/ : 24-APR-07 01-NOV-18  
 Termination date

## Mining Engineer

Name : A POOVARAGAHAVAN,Full Time  
 Qualification : B.E MINING,FIRST CLASS CERTIFICATE  
 Appointment/ : 01-NOV-18  
 Termination date

## Geologist

Name : E.SEKAR,Full Time  
 Qualification : M.Sc GEO  
 Appointment/ : 22-MAR-13  
 Termination date

6. Date of approval of Mining : Fresh under rule 22 MCR1960 30-AUG-04  
 Plan/Scheme of Mining : Renewal under rule 24 MCR1960 20-APR-09  
 Mining Scheme rule 12 MCDR1988 02-APR-14  
 MP review under 17(1) MCR 2016 30-OCT-18

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	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	33 Exploration borehole drilled with total meterage of 456.06 m with 100m*100m grid interval.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	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	0.174 Million tonnes	0.174 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	Proposed area of working D-H& 400-700, RL 42.0 to 36.5 and D-G &200-400, RL 52.0 to 47.0-44.0 m	Worked D-G& 400-700. RL 44.5 to 38.0 m	As per proposal
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, one topsoil bench, two ore benches.	Yes, one topsoil bench, one overburden bench, two ore benches.	Separate bench for topsoil and overburden are being maintained.

2c	Stripping ratio or ore to OB ratio	`1:0.52	`1:0.00	No waste generation.
2d	Quantity of topsoil generation in m3	2019- 20=13550.0"	2019-20=0.0"	NIL
2e	Quantity of overburden generation in m3	19-20=19856.0"	2019-20=0.0"	NIL WITHIN LIMIT
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	SATISFACTORY

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1One , 450m*480m* 16m )	1(One , 450m*480m* 16m	AS PER PLAN.
3b	Quantity of ROM mineral production proposed	187020 Ts	65969.88 Ts	Within limit
3c	Recovery of sailable/usable mineral from ROM production	149616 Ts	65969.88 Ts	NIL
3d	Quantity of mineral reject generation	37404 Ts	NIL	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.	NIL	NIL	NIL
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	Not applicable
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	As per plan

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NIL	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	YES Shovel-1, Rock breaker-1, Tipper-1, water tanker-1	Shovel-1, Rock breaker-1, Tipper-1, water tanker-1	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Top soil-5m, Overburden-5m, Limestone-5m	Top soil-5m, Overburden-5m, Limestone-5m WIDTH=5 MTRS	Height of the benches are 5.0m
3m	Total area covered under excavation/pits	19.37.0 ha	17.62.0 ha	AS PER PLAN.
3n	Ore to OB ratio for the pit/mine during the year.	`1:0.52	`1:0.00	Due to temporary discontinuance of the Mining Operations. NOTICE GIVEN.
3o	Total area put in use under different heads at the end of year	"Area under mining-19.37.0, Overburden dump-4.11.5, Mineral storage-0.51.0, Roads-0.65.0, Protective-1.61.5, Greenbelt-1.75.0"	"Area under mining-19.37.0, Overburden dump-4.11.5, Mineral storage-0.51.0, Roads-0.65.0, Protective-1.61.5, Greenbelt-1.75.0"	As proposed

3p	Production of ROM mineral during the last five year period as applicable	" 2015-16=187496 Ts 2016-17=187492 Ts 2017-18=187478 Ts 2018-19=187487 Ts 2019-20=187020 Ts "	"2015-16=155617.67 Ts 2016-17=184282.26 Ts 2017-18=179120.09 Ts 2018-19=179586.06 Ts 2019-20=64216.46 Ts"	ALL WITHIN LIMIT
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)	Top soil and overburden are planned for backfilling and stablised with plantations.	Top soil and overburden are planned for backfilling and stablised with plantations.	As proposed
4b	Location of topsoil, OB and mineral reject dumps	"South western side of ML (Grid Line A-D & 100-300)"	"South western side of ML (Grid Line A-D & 100-300)"	NIL
4c	Number of dumps within lease area and outside of lease area	One Dump within ML, &Back filled	One Dump within ML, &Back filled	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side of UPL	Out side of UPL	Back filling South eastern side of ML.
4e	Number of active and alive dumps.	Active dump- Nil, Alive- Back filling	Active dump- Nil, Alive- Back filling	As per proposal, Back filling is being done.
4f	Number of dead dumps.	"One (Grid Line A-D & 100-300)"	"One (Grid Line A-D & 100-300)"	Plantation completed.
4g	Number of dumps established.	1	Stablised with plantations.=1 DUMP	Stablised with plantations.

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 1135m.
4j	Number of settling ponds	One	One	In south eastern side.
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 (Grid Line B-D & 200 - 700)"	"Back filled in Mined out area (Grid Line B-D & 200 - 700)"	Mineral is taken before back fillng.
5b	Area under backfilling of mined out area	0.50.0	NIL	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Yes	Yes	Southern side of mining lease area.
5d	Total area fully reclaimed and rehabilitated	"1.17.0 (Grid Line C - D & 500-700)"	"0.40.0 (Grid Line C - D & 500-700)"	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
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	YES	Yes, submitted to IBM	Submitted on 01.06.2020
6b	Area available for rehabilitation (ha) .	0.50.0	Nil	Due to temporary discontinuance of the Mining Operations.
6c	afforestation done (ha).	1.17.0	0.40.0	NIL
6d	No. of saplings planted during the year	1750 nos	500 nos	Due to temporary discontinuance of the Mining Operations.
6e	Cumulative no .of plants	-	6300 nos	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	40m*150m*8.0m	nil	Due to temporary discontinuance of the Mining Operations.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	37404 Ts	nil	Due to temporary discontinuance of the Mining Operations.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	1750 nos	500 nos	nil



6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Water reservoir will be formed after mineral exhausted	Water reservoir will be formed after mineral exhausted	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not applicable	Not applicable	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No area available	No area available	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No area available	NIL	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	No area available
6p	Compliance of environmental monitoring (core zone and buffer zone)	Complied. Environment monitoring is being done quarterly.	Environmental monitoring is being done season wise.	ALL DATA ARE IN LIMIT
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	Dispatch of ROM Limestone	NO SORTING

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7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not applicable	Not applicable	NIL
7c	Different grade of mineral sorted out at mines.	Not applicable	Not applicable	NIL
7d	Any beneficiation process at mines	NIL	Not applicable	NIL
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)	Separately removed & utilized	NIL	Due to temporary discontinuance of the Mining Operations.
8b	Concurrent use or storage of topsoil	Concurrent usage is proposed	No topsoil generation	Due to temporary discontinuance of the Mining Operations.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not applicable	Not required	Not required
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	NIL	PARTLY RESTORED WITH AVAILABLE WASTE.

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8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Yes	PARTLY RESTORED WITH AVAILABLE WASTE.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	7550	6300	Due to temporary discontinuance of the Mining Operations.
8g	Survival rate	>90%	>90%	NIL
8h	Water sprinkling on roads to control airborne dust	YES	Water sprinkling is being done by water tanker.	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	Yes	Submitted for the Year 2019-20	Submitted for the Year 2019-20
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	"Mining Engineer: Shri.A.Poovara gavan Geologist: Shri.E.Sekar"	Provided in part-I	NIL

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current workings- 13.82.0, reclaimed- 3.75.0, used for waste disposal- 4.11.5, infrastructure -0.70.0 and others-3.87.5.	Provided in part-I, Sl.No-12	NIL
9d	Scrutiny of Annual return on afforestation	500 Nos	Provided in part-V, Para-4.4	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Provided in part-V, of 4.2 (B) NIL	NIL	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	NIL STOCK	NO STOCK FOUND	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	" Provided in part VI and Part-VII. Ex.Mine Price=Rs 262.00 Production Cost=Rs 262"	NIL	NIL
9h	Scrutiny of Annual return on fixed assets	1262696903	NIL	NIL
9k	Scrutiny of Annual return on mining machineries	Mentioned in part -V, Sec-5/6/8/9.	Mentioned in part -V, Sec-5/6/8/9.	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 :**

(SALIL SANDIP KUJUR)

Indian Bureau of Mines