

**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 : **T003**) **S.THIRUNAVUKKARASU**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri.J.PRESLEY MACULAY DGM(MINES) & K.Baskar Manage
Official with
Designation
- (iv) Date of Inspection : 16/08/2019
- (v) Prev.inspection date : 25/09/2018

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** : **21/06/2000**
- (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** : **28/10/2029**
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/ : 13/07/2016
 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/ : 15/10/2018
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	17/02/2005
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	05/07/2011
		Mining Scheme rule 12 MCDR1988	17/04/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NA	Fullu explored under G1 level
1b	Exploration over lease area for geological axis 1 or 2	NIL	NA	Fullu explored under G1 level
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NA	NA
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NA	NIL
1e	Balance reserve as on 01/04/20	NIL	1.414 Ha	NIL
1f	General remarks of inspecting officers on geology, exploration etc	-----	---	Geology, exploration are found satisfactory.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	M1-1 to ML-3	M1-1 to ML-3	Asd per the proposal
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	yes	yes	sepertd benched maintained for top soil and OB
2c	Stripping ratio or ore to OB ratio	1: 0.10	1: 0.29	NIL
2d	Quantity of topsoil generation in m3	NIL	NA	No top soil generaton duing the perios
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-----	---	development of pit is found satisfactory

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one	one	As per proposal
3b	Quantity of ROM mineral production proposed	519915	330054.24	Limestone production is Within limit
3c	Recovery of sailable/usable mineral from ROM production	493919	330054.24	Within limit
3d	Quantity of mineral reject generation	25996	67140	Due to statigraphical deviation
3e	Grade of mineral rejects generation and threshold value declared.	SiO ₂ >18.0%	SiO ₂ >18.0%	NIL
3f	Quantity of sub grade mineral generation.	NIL	No subgrade generation	No subgrade generation
3g	Grade of sub grade mineral generation	NIL	NA	No subgrade generation
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized method	Mechanized method	As per plan
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NA	Beneficiation study done in Initial period.
3j	Provision of drilling and blasting in mineral benches	NIL	NA	Drilling and blasting not carried out.
3k	Provision of mining machineries in mineral benches	Surface Miner-1, Tipper-5	Surface Miner-1, Tipper-5	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	5m	5m	NIL

3m	Total area covered under excavation/pits	12.16.0 Hec.	12.16.0 Hec.	NIL
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	Area under mining-12.16.0, Overburden-1.66.0, Infrastructure-0.10.0, Roads-1.50.0,"	Area under mining-12.16.0, Overburden-1.66.0, Infrastructure-0.10.0, Roads-1.50.0,	NIL
3p	Production of ROM mineral during the last five year period as applicable	2014-15 = 183316 Ts 2015-16 = 501916 Ts 2016-17 = 504123 Ts 2017-18 = 508477 Ts 2018-19 = 493919 Ts	2014-15 = 211492.17 Ts 2015-16 = 353366.86 Ts 2016-17 = 215380.34 Ts 2017-18 = 173277.94 Ts 2018-19 = 330054.24 Ts	Limestone Production Actual is within the limit
3q	General remarks of inspecting officers on method of mining etc.	--	---	method of mining is found satisfactory

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Overburden is planned for backfilling and stablised with plantations.	Overburden is planned for backfilling and stablised with plantations.	As proposed
4b	Location of topsoil, OB and mineral reject dumps	Western side of ML(100-200E & ML-1-3)	As per proposal	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)	Out site of UPL	Out site of UPL	Back filling in Westernside of ML.
4e	Number of active and alive dumps.	Active dump- Nil, Back filling- alive	Active dump- Nil, Back filling- alive	NIL
4f	Number of dead dumps.	one	one	Plantation completed.
4g	Number of dumps established.	one	one	Stablised with plantations.
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	Garland drains are already made
4i	Length of Retaining wall or garland drain all along dumps	NIL	NA	Garland drain existed for 1200m.
4j	Number of settling ponds	NIL	NIL	2 nos of settling pits exists in Western side.
4k	Specific comments of inspecting officer on waste dump management	--	--	waste dump management is founs 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	Mineral is taken before back filling.
5b	Area under backfilling of mined out area	0.23.0	0.20.0	backfilling under progressive
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NA	No top soil generation during the yera

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.	---	---	backfilling, reclamation is found 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 in time	submitted in time
6b	Area available for rehabilitation (ha) .	6.00.0 ha	6.00.0 ha	plantation
6c	afforestation done (ha).	0.48.0	0.48.0	As per the proposal
6d	No. of saplings planted during the year	400 nos	600 nos	600 nos
6e	Cumulative no .of plants	--	10393 nos	NIL
6f	Any other method of rehabilitation	NIL	NA	No other method of rehabilitation
6g	Cost incurred on watch and care during the year	--	Rs 0.66 Lakhs	As per the record
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	80m*25m*15m	70m*25m*13m	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	153431 Ts	67140 Ts	nil

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	600 Nos	600 Nos	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NA	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NIL	NA	NIL
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	NIL	NA	No waste land
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NIL	NA	NIL
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	NIL	NA	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	proposed	Complied as per proposal	Record verified found correct
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	---	--	PMCP compliance & progressive closure operations found satisfactory

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	NIL	NA	Entire ROM used
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanized method	Mechanized method	Entire ROM used
7c	Different grade of mineral sorted out at mines.	NIL	NA	There is no different grade of mineral
7d	Any beneficiation process at mines	NIL	NIL	Entire ROM used
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	----	---	Mineral conservation & beneficiation found good

Environment :

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	NA	No topsoil removal for 2018-19
8b	Concurrent use or storage of topsoil	NIL	NA	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	YES	As per the proposal	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	yes	Overburden, waste rock, rejects are used for backfilling	NIL

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed	backfilling prograssive	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed	600 nos plantation carried out	NIL
8g	Survival rate	90%	90%	
8h	Water sprinkling on roads to control airborne dust	proposed	yes carried out	Water sprinkling is being done by water tanker.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-----	-----	aesthetic beauty in and around mines area is found good

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Given	Submitted	Submitted in time
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	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	NIL
9d	Scrutiny of Annual return on afforestation	Given	600 nos	Provided in part-V, Para-4.4 sal

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given	No Mineral reject generation	Provided in part-V, of 4.2 (B)
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	As per the proposal	Provided in part-VI, Para-2
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	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	Given	1107206379	Provided in part - II (A)
9k	Scrutiny of Annual return on mining machineries	Shovel-1.5 Cu.m, Tipper-7.0 Cu.m, Water tanker-9000 Lits	Shovel-1.5 Cu.m, Tipper-7.0 Cu.m, Water tanker-9000 Lits	Mentioned in part -V, Sec-5/6/8/9.

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 :

(S. THIRUNAVUKKARASU)

Indian Bureau of Mines