

**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 : **M017**) **Matiul Islam**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : S.RAMESH ,DGM(MINES) & G.BALU, AGM (MINING & GEO.)
Official with
Designation
- (iv) Date of Inspection : 01/02/2021
- (v) Prev.inspection date : 25/02/2020

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 : ADANAKURICHI LST MINES
correspondance : 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
		MP review under 17(1) MCR 2016	11/11/2019

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 2019-20	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	Nil	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	-	1.245 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-1 to ML-2 and 100-500E	Actual working was ML-1 to ML-2 and 100-500E	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 proposed
2c	Stripping ratio or ore to OB ratio	1:0.05	1:0.06	Marginal deviation

2d	Quantity of topsoil generation in m3	Nil	Nil	As per plan
2e	Quantity of overburden generation in m3	Nil	Nil	As per plan
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	One	One	As proposed
3b	Quantity of ROM mineral production proposed	5,02,332 te	1,78,567.24 te	Less ROM mineral production due to Plant requirement.
3c	Recovery of sailable/usable mineral from ROM production	4,77,215 te	1,68,487.24 te	Less recovery due to less production
3d	Quantity of mineral reject generation	25,117 te	10,080.00 te	Due to statigraphical deviation
3e	Grade of mineral rejects generation and threshold value declared.	SiO2 >18.0%	SiO2 >18.0%	As proposed
3f	Quantity of sub grade mineral generation.	Nil	Nil	No subgrade generation
3g	Grade of sub grade mineral generation	NA	NA	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Nil	Nil	Nil

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	"Surface Miner-1, Tipper-5"	"Surface Miner-1, Tipper-5"	As proposed
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 Ha.	12.16.0 Ha.	As per plan
3n	Ore to OB ratio for the pit/mine during the year.	1:0.05	1:0.06	Marginal deviation
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,	As proposed
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=178567.24 Ts	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)	No Top Soil / OB. Rejects proposed to be backfilled.	No Top Soil / OB. Rejects backfilled into worked out pits.	As proposed
4b	Location of topsoil, OB and mineral reject dumps	No Top Soil / OB. Rejects proposed to be backfilled.	No Top Soil / OB. Rejects proposed to be backfilled.	As proposed
4c	Number of dumps within lease area and outside of lease area	One Dump, within lease	One Dump, within lease	As per plan
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	As per plan
4e	Number of active and alive dumps.	Nil	Nil	Rejects generated backfilled into worked out benches
4f	Number of dead dumps.	One	One	As per plan
4g	Number of dumps established.	One	One	As per plan
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	1200m of garland drain already existing.
4j	Number of settling ponds	Nil	Nil	Two settling ponds already exist
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.	Backfilling proposed	Backfilling carried out	As proposed

5b	Area under backfilling of mined out area	0.32 ha	0.20 ha	Less area backfilled due to less generation of rejects due to reduced production
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	NA	No top soil encountered
5d	Total area fully reclaimed and rehabilitated	0.19.0 ha	0.19.0 ha	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 in time
6b	Area available for rehabilitation (ha) .	6.00.0 ha	6.00.0 ha	As per plan
6c	afforestation done (ha).	0.19.0	0.19.0	As per plan
6d	No. of saplings planted during the year	200 nos	200 nos	As per plan
6e	Cumulative no .of plants	-	10,593 nos	Nil
6f	Any other method of rehabilitation	Nil	Nil	Nil
6g	Cost incurred on watch and care during the year	Rs 0.75 Lakhs	Rs 0.75 Lakhs	As per plan

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	75m*25m*15m	75m*25m*15m	As per plan
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	25117 Ts of Rejects	10080 Ts of Rejects	Less waste generation due to less production.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	0.19.0 ha	0.19.0 ha	As per plan
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 available within lease area
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	NA	No waste land available within lease area
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	NA	No waste land available within lease area

6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Carried out quarterly	Complied
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	Satisfactory

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

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	No top soil removal	No top soil encountered

8b	Concurrent use or storage of topsoil	No proposal	Not carried out	No top soil encountered
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No OB. Rejects proposed to be backfilled.	No OB. Rejects backfilled into worked out benches.	As proposed
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Yes	Rejects backfilled into worked out benches
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Yes	Rejects backfilled into worked out benches
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	-	10,593 nos of saplings (cumulative)	Nil
8g	Survival rate	90%	90%	As proposed
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	Water sprinkling done by water tanker and permanent sprinkler
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	Satisfactory

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Given	Submitted on 29/06/2020	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given in Part I, Sl 2	Manager Sri. J. Preistly Macaulay Mining Engineer in charge Sri. P. Arunkumar Geologist in charge Sri. G. Balu	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given in Part I, Sl 12	(i) Already exploited & abandoned by 0 opencast (O/C) mining (ii) Covered under current (O/C) 8.215 Workings (iii) Reclaimed/Rehabilitated 3.945 (iv) Used for waste disposal 1.66 (v) Occupied by plant, buildings, 1.5 residential, welfare buildings & roads (vi) Other Purpose (Green belt) 1.89 (vii) Work done under progressive mine 0 closure plan during the year	Nil
9d	Scrutiny of Annual return on afforestation	Given in Part V, Sec 4. Mining Operations during the year	4.4 (i) Number of trees planted during the year (a) Within lease area 200 (b) Outside lease area 0 (ii) Species 0 (iii) Survival rate in percentage 90.00	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given in Part V, Sec 4 - Mineral Rejects for Limestone	4.2 (B) (ii) Mineral Rejects generated with grades (tonnes) a. Quantity 10080 b. Grade 45	Nil

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given in Part VI, Sl 1 & 2	Category Opening stock (in tonne) Production (in tonne) Closing stock (in tonne) (a) Open Cast Workings 0.000 168487.000 0.000	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given in Part VI, Sl 2 & Part VII	Ex-Mine Price / Cost of Production - Rs 328.00/-	Nil
9h	Scrutiny of Annual return on fixed assets	Given in Part II(A)(Capital Structure)	Net Total Asset - Rs 1,26,26,96,903 /-	Nil
9k	Scrutiny of Annual return on mining machineries	Given in Part V, Sec 5/6/8/9	Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) SURFACE MINER 900.000 HP 1 Non Electrical Opencast TIPPER 8.000 CUM 5 Non Electrical Opencast	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 31(4)	15/02/2021			

Date :

(Matiul Islam)

Indian Bureau of Mines