

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

MCDR INSPECTION REPORT

Chennai regional office

Mine file No : TN/MDR/LST-1, MDS

Mine code : 38TMN17001

- (i) Name of the Inspecting : **T003**) **S.THIRUNAVUKKARASU**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri M.Mayilrajan DGM Mines
Official with
Designation
- (iv) Date of Inspection : 15/10/2018
- (v) Prev.inspection date : 13/03/2018

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SEETHAINAGAR**
- (b) **Registration NO.** : **IBM/170/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : TAMIL NADU
- District : DINDIGUL
- Village : ALAMBADI
- Taluka : VEDASANDUR
- Post office : ALAMBADI MINES
- Pin Code : 624620
- FAX No. : 04320 - 251320
- E-mail : ragunathsingh@chettinadcem
- Phone : 04320 - 234240 / 04551 - 2
- (f) Police Station : VEDASANDUR
- (g) First opening date : 01/11/1967
- (h) Weekly day of rest : SUN
2. Address for : CHETTINADU CEMENTS CORPORATION LTD,
correspondance SEETHAINAGAR LIMESTONE MINE,
ALAMBADI MINES (POST), DINDIGUL DIST-624703
3. (a) Lease Number : TMN0002
- (b) Lease area : 251.82
- (c) Period of lease : 6
- (d) Date of Expiry : 06/09/1991
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : CHETTINAD CEMENT CORPORATION LIMITED
 4TH FLOOR, RANI SEETHAI
 HALL BLDG 603, ANNA SALAI
 CHENNAI CITY TAMIL NADU
 Phone:044-28292727, 42149955
 FAX :044 - 28291558

Owner : L.Murhukrishnan
 Rani Seethai Hall ,Anna
 Salai, Chennai CHENNAI
 CITY TAMIL NADU
 Phone: 914442149955,42
 FAX : 914428291558

Agent : K. KASIRAJAN
 603, Anna Salai, Chettinad
 cements Corp Ltd CHENNAI
 CITY TAMIL NADU
 Phone: 9788858200, 04329-247726
 FAX : 04329-247726

Mining Engineer

Name : M.Mayilrajan,Full Time
 Qualification : B.E Mining
 Appointment/ : 15/09/2016
 Termination date

Geologist

Name : C.NATARAJAN,Full Time
 Qualification : MSC. M.PHIL
 Appointment/ : 10/10/2012
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	04/12/2002
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	02/08/2006
	:	Renewal under rule 24 MCR1960	05/05/2008
	:	Modif.of approved Mining Plan	03/06/2010
	:	Mining Scheme rule 12 MCDR1988	30/01/2012
	:	Modif.approved Mining Scheme	19/05/2015
	:	Mining Scheme rule 12 MCDR1988	23/02/2016
	:	MP modif under 17(3) MCR 2016	16/07/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	Nil
1b	Exploration over lease area for geological axis 1 or 2		251.59 HECT	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	---	ACC and CCL	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	
1e	Balance reserve as on 01/04/20	----	95.715 M.T (111 Category)	
1f	General remarks of inspecting officers on geology, exploration etc	----	Geology, exploration of the mine found good	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Alambadi, Mallapuram, Karikkali, and Samy pits	As per the proposals	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes proposed	Yes as per the proposal	The waste generated during mining shall include overburden and ore zone waste, which consists of calc-gneiss, Pegmatite and granite gneiss. No topsoil is likely to be generated during the Scheme period as topsoil already removed and used for afforestation purpose and prepared bund along mine periphery.
2c	Stripping ratio or ore to OB ratio	1:1.17	1:0.50	
2d	Quantity of topsoil generation in m3	No generation of top soil	NIL	
2e	Quantity of overburden generation in m3	NIL	NIL	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	- -	Development of pit of the mine id satisfactory.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	3 Nos	3 Nos	
3b	Quantity of ROM mineral production proposed	30,03,273 Ts	8,88,269 Ts (Upto Sept '18)	
3c	Recovery of sailable/usable mineral from ROM production	70%	70%	

3d	Quantity of mineral reject generation	35,03,091 Ts	1,82,390 Ts (Upto Sept'18)	
3e	Grade of mineral rejects generation and threshold value declared.	<35 CaO	<35 CaO	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3j	Provision of drilling and blasting in mineral benches	Yes,proposed	As per the proposal	Primary breaking of rock will be done by conventional drilling and blasting operations. Deep hole drilling and blasting are being
3k	Provision of mining machineries in mineral benches	Available	Available	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	10 mtr	10 mtr	Yes, we are maintaining 10 mtr bench and it is suitable for method of Mining
3m	Total area covered under excavation/pits	86.92.0 Hect	86.92.0 Hect	
3n	Ore to OB ratio for the pit/mine during the year.	1:1.17	1:0.50 (Upto Sept'18)	
3o	Total area put in use under different heads at the end of year	213.28.5 Hect	213.28.5 Hect	

3p	Production of ROM mineral during the last five year period as applicable	2013-14-3158954 Ts 2014-15-3003312 Ts 2015-16-3000000 Ts 2016-17-2997609 Ts 2017-18-2999576 Ts	2013-14-1282673 Ts 2014-15- 1131781 Ts 2015-16- 1099764 Ts 2016-17-1234033 Ts
3q	General remarks of inspecting officers on method of mining etc.	- -	method of mining is found to be sastisfactory

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Existing and new Dump to be used	Complied as per the Proposal	
4b	Location of topsoil, OB and mineral reject dumps	Located inside of the ML area at South of lease area	Located inside of the ML area at South of lease area	
4c	Number of dumps within lease area and outside of lease area	Four	Four	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	marke in the surface plan	as per the proposal	
4e	Number of active and alive dumps.	Four	four	
4f	Number of dead dumps.	Not applicabel	Elevan old dumps	
4g	Number of dumps established.	--	Elevan old dumps	
4h	Whether Retaining wall or garland drain all along dumps are there.	Provided	As per Proposal	
4i	Length of Retaining wall or garland drain all along dumps	Provided	Provided	

4j	Number of settling ponds	one	one
4k	Specific comments of inspecting officer on waste dump management	---	waste dump management found to be satisfactory

Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Nil	Not applicable	
5b	Area under backfilling of mined out area	NIL	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NIL	
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	- -	backfilling, reclamation does not arise at the stage	

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Periodically Submitted	Periodically Submitted	
6b	Area available for rehabilitation (ha) .	Nil	Nil	

6c	afforestation done (ha).	Proposed	57.05	
6d	No. of saplings planted during the year	1100	1000	
6e	Cumulative no .of plants	--	76780+16500	76780 Inside the lease, 16500 outside the lesae area
6f	Any other method of rehabilitation	NIL	nil	
6g	Cost incurred on watch and care during the year	nil	nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NIL	NIL	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NIL	NIL	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NIL	NIL	

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NIL	NIL	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	NIL	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Nil	Nil	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Nil		PMCP compliance & progressive closure is found to be satisfactory

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NIL	NIL	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NIL	NIL	
7c	Different grade of mineral sorted out at mines.	NIL	NIL	

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

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	Top siol removed are utilized for plantation	
8b	Concurrent use or storage of topsoil	NIL	NIL	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	OB Dump Provided	OB Dump Provided	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2000 Nos	1000 Nos (Upto Sept'18)	The green belt will be gap filling plantation in the existing area where already green belt is developed
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Water bouser - For water sprinkling on haul roads.	Water bouser - For water sprinkling on haul roads.	

8i General remarks - - aesthetic beauty in and
of inspecting around mines area is
officer on found satisfactory
aesthetic beauty
in and around
mines area

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes	yes	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details in A.R.	information on Mining Engineer, Geologist and Manager are given	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	given	As per the proposal	
9d	Scrutiny of Annual return on afforestation	nil	NIL	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	NIL	NIL	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Rs.279.46	Rs.279.46	
9h	Scrutiny of Annual return on fixed assets	RS.230730864	RS.230730864	
9k	Scrutiny of Annual return on mining machineries	given	As per filed Annual Return	

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 55(1)(3)	26/11/2018				

Date :

(S. THIRUNAVUKKARASU)

Indian Bureau of Mines