

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

**MCDR INSPECTION REPORT**

**Chennai regional office**

**Mine file No :** TN/PBR/LST-58/MDS

**Mine code :** 38TMN38007

- (i) Name of the Inspecting : **T003** ) **S.THIRUNAVUKKARASU**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : MR. RAMESH , BALASHANMUGAM-AGM-MINES  
Official with  
Designation
- (iv) Date of Inspection : 24/06/2019
- (v) Prev.inspection date : 27/09/2018

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **PUDUPALAYAM(37HA)**
- (b) **Registration NO.** :
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : TAMIL NADU
- District : ARIYALUR
- Village :
- Taluka :
- Post office :
- Pin Code :
- FAX No. : 044-28291558, 04329-247726
- E-mail : mayilrajan.m@chettinadcemei
- Phone : 044-28292727, 04329-249770
- (f) **Police Station** : Vikramangalam, ARIYALUR
- (g) **First opening date** : 11/01/1989
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : RANI SEETHAI HALL BUILDING  
POST BOXNO.748, 603-ANNA SALAI  
CHENNAI-600006
3. (a) **Lease Number** : TMN1037
- (b) **Lease area** : 37.01
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 08/02/2009
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 : SP.ST.PALANIAPPAN , MD  
 RANISEETHAI HALL ANNASALAI  
 CHENNAI CITY TAMIL NADU  
 Phone: 044- 28292727  
 FAX : 04428291558

Agent : R. A. KRISHNAKUMAR  
 Executive Director Dalmia  
 cements(B) Ltd.,  
 Dalmiapuram TIRUCHIRAPALLI  
 TAMIL NADU  
 Phone: 04329-294632  
 FAX : 04329-235111

## Mining Engineer

Name : M.RAMESH,Full Time  
 Qualification : BE Mining  
 Appointment/ :  
 Termination date

## Geologist

Name : M.L.BALASHANMUGAM,Full Time  
 Qualification : MSC(GEOLOGY)  
 Appointment/ :  
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	19/10/2006
Plan/Scheme of Mining	:	Renewal under rule 24 MCR1960	11/03/2008
	:	Modif.of approved Mining Plan	09/10/2009
	:	Mining Scheme rule 12 MCDR1988	24/06/2014
	:	MP review under 17(1) MCR 2016	09/04/2019

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	Mine is fully explored under G1 level	NIL
1b	Exploration over lease area for geological axis 1 or 2	NIL	Mine is fully explored under G1 level	NIL
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NIL	Mine is fully explored under G1 level
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	Mine is fully explored under G1 level	Entire area explored.
1e	Balance reserve as on 01/04/20	----	29000MT	NIL
1f	General remarks of inspecting officers on geology, exploration etc	----	Mine is fully explored under G1 level	Geology, exploration is found good.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N-351 to N-593 / E-453 to E-751	N-351 to N-593 / E-453 to E-751	As per the approved mining plan
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NIL	Already developed Topsoil and Overburden benches are there as per Rule 15	As per the proposals
2c	Stripping ratio or ore to OB ratio	1:0.33	1:0.33	NIL
2d	Quantity of topsoil generation in m3	NIL	No top soil generation during the plan period	NIL
2e	Quantity of overburden generation in m3	2018-19= 27314	26854	nil

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-----	-----	development of pit found as per the proposal
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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one	one	as per the proposal
3b	Quantity of ROM mineral production proposed	2014-15= 62184 2015-16= 63307 2016-17= 46086 2017-18= 77883 2018-19= 81943	2014-15=147116 2015-16=84620 2016-17=78737 2017-18=29906 2018-19=93273	NIL
3c	Recovery of sailable/usable mineral from ROM production	All grde of mineral	All grde of mineral	All grade of mineral used
3d	Quantity of mineral reject generation	No geration of mineral rejarct	Not appicable	No Mineral reject generation.
3e	Grade of mineral rejects generation and threshold value declared.	<35 Ca0	<35 Ca0	nil
3f	Quantity of sub grade mineral generation.	No sub-grade mineral generation.	Not applicable	sub-grade mineral generation
3g	Grade of sub grade mineral generation	sub-grade mineral generation	Not applicable	Not applicable
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	beneficiation study is not required.	Not applicable
3j	Provision of drilling and blasting in mineral benches	NIL	Not appicable	Non Conventional Mining by Rock Breaker
3k	Provision of mining machineries in mineral benches	Proposed	As per Proposal Machineries are Provided	As per the proposal

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	as per the proposal given in the approve plan	NIL
3m	Total area covered under excavation/pits	24.88 Hec	24.88 Hec	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:0.33	1:0.33	NIL
3o	Total area put in use under different heads at the end of year	24.88 Hec	24.88 Hec	NIL
3p	Production of ROM mineral during the last five year period as applicable	2014-16 62184 2015-16 63307 2016-17 46086 2017-18 77883 2018-19 81943	2014-15=147116.78 2015-16=84620 2016-17=78737 2017-18=29906.92 2018-19=93273	
3q	General remarks of inspecting officers on method of mining etc.	-----	-----	method of mining is found as per the proposal.

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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	As per the proposal
4b	Location of topsoil, OB and mineral reject dumps	Dump located at south and south western side of ML	Dump located at south and south western side of ML	As per the proposal
4c	Number of dumps within lease area and outside of lease area	Two with in the leas	Two with in the leas	No out side dumping
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NIL	Not applicable	poposed dumps are active
4e	Number of active and alive dumps.	Two	Two	as per the proposal

4f	Number of dead dumps.	NIL	NIL	Dumps are active.
4g	Number of dumps established.	NIL	NIL	Dumps are active.
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed	Retaining wall carried out .	NIL
4i	Length of Retaining wall or garland drain all along dumps	300 mts	300mts	NIL
4j	Number of settling ponds	NIL	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management	----	---	waste dump management is found 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.	Mineral Exhaust area proposed for backfilling	As per the proposal	NIL
5b	Area under backfilling of mined out area	3.874 Hec	3.874 Hec	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposed	topsoil used for restoration	NIL
5d	Total area fully reclaimed and rehabilitated	3.874 Hec backfilled	3.874 Hec backfilled	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	----	---	backfilling, reclamation is found as per the proposal

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).	Prposed to submite	2018-19 Annual returns on PMCP submitted in time	NIL
6b	Area available for rehabilitation (ha) .	No proposal	not applicable	not at the stage
6c	afforestation done (ha).	1.0 ha	1.0 ha	NIL
6d	No. of saplings planted during the year	700 salings proposed	1000 salings carried out	NIL
6e	Cumulative no .of plants	---	10500 plants	NIL
6f	Any other method of rehabilitation	NIL	NIL	No othe method of rehabilitation .
6g	Cost incurred on watch and care during the year	4.957Lakhs	6.0Lakhs	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	NIL	Backfilling under proposed	Not at the stage
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No proposal	No Afforestation on the backfilled area proposed	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not applicable	Not applicable	NIL

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not applicable	Not applicable	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not applicable	Not applicable	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not applicable	Not applicable	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not applicable	Not applicable	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	Not applicable	Not applicable	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	---	---	PMCP compliance & progressive closure operations is found 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	No Proposal	Not applicable	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NIL	Not applicable	NIL
7c	Different grade of mineral sorted out at mines.	NIL	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	----	---	conservation of mineral found good

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Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NIL	No top soil generation during the plan period
8b	Concurrent use or storage of topsoil	NIL	NIL	During initial stage already removed and concurrently used for spreading above the backfilling area.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Two	two	as per the Rule 33
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling	Backfilling	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling	Backfilling	NIL

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	700 plantation proposed	1000 nos plantation carreied out so far 10500 plantaion carried out	as per the proposal.
8g	Survival rate	70%	70%	NIL
8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed	Water sprinkling carried out on roads to controle dust polution	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	---	---	aesthetic beauty in and around mines area found good.

#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submiteed	submiteed in time	No deviation
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	as per the office record Mining Engineer, Geologist and Manager are given	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	land use pattern for area under pits, reclaimed area, dumps etc are given	NIL
9d	Scrutiny of Annual return on afforestation	given	afforestation ar furnished	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given	Grade & quantity are furnished	nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	ROM stock and/or graded ore are furnished.	NIL

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9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	given	production cost Rs.306/-	given in part VII of AR
9h	Scrutiny of Annual return on fixed assets	given	Rs.75000/-	Given in part III of AR
9k	Scrutiny of Annual return on mining machineries	Given	Shoval -2 Nos Tipper-5 Nos	given in page 13 of AR

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**Details of violations observed during current inspection and compliance position of violation pointed out**

Violation observed		Show cause position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

**Date :**

(S. THIRUNAVUKKARASU)

Indian Bureau of Mines