

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

**MCDR INSPECTION REPORT**

**Chennai regional office**

**Mine file No :** TN/CBT/LST-2.MDS

**Mine code :** 38TMN02005

- (i) Name of the Inspecting : **T003** ) **S.THIRUNAVUKKARASU**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri.PradeepSahoo DGM(Mining), Sri AnandKumar Manager  
Official with  
Designation
- (iv) Date of Inspection : 18/03/2019
- (v) Prev.inspection date : 21/08/2017

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **MADUKKARAI(G.O.674)**
- (b) **Registration NO.** : **IBM/256/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : TAMIL NADU
- District : COIMBATORE
- Village : MADUKKARAI
- Taluka : COIMBATORE
- Post office : MADUKKARAI
- Pin Code :
- FAX No. : 0422-622286
- E-mail : suresh.wandhare@acclimited
- Phone : 0422-622525
- (f) Police Station :
- (g) First opening date : 01/01/1934
- (h) Weekly day of rest : SUN
2. Address for : M/S A.C.C LTD,  
correspondance : MADUKKARAI CEMENTS LTD,  
MADUKKARAI-641105
3. (a) Lease Number : TMN0003
- (b) Lease area : 29.72
- (c) Period of lease : 20
- (d) Date of Expiry : 30/01/1982
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : ACC LIMITED  
MADUKKARAI CEMENT WORKS  
MADUKKARAI COIMBATORE  
TAMIL NADU  
Phone:  
FAX :

Owner : KULDIP K KAURA, ACC LTD  
Cement House, 121, Maharshi  
Road, Mumbai GREATER  
BOMBAY MAHARASHTRA  
Phone: 0422-2622286  
FAX :

Agent : A K SHRIVASTAVA, DIRECTOR  
ACC Ltd., Madukkarai Cement  
Works, MADUKARAI COIMBATORE  
TAMIL NADU  
Phone: 0422-2912202  
FAX : 0422-2622286

## Mining Engineer

Name : VIJAY SRINIVASAN, Full Time  
Qualification : B.E MINING  
Appointment/ : 01/09/2018  
Termination date

## Geologist

Name : VENKATESWARLU. S.T.K, Full Time  
Qualification : M.Sc Geology  
Appointment/ : 26/03/2015  
Termination date

## Manager

Name : ANAND KUMAR R.S  
Qualification : B.E mining  
Appointment/ : 06/02/2017  
Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	17/04/2008
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	04/12/2013
	:	MP modif under 17(3) MCR 2016	20/06/2016
	:	MP review under 17(1) MCR 2016	17/11/2017
	:	MP modif under 17(3) MCR 2016	22/03/2018

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	nil	No proposal given
1b	Exploration over lease area for geological axis 1 or 2	NIL	explored under G 1	nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not applicable	Not applicable	No proposal given
1d	Balance area to be explored to bring Geological axis in 1 or 2	--	--	geology, exploration is found to be satisfactory
1e	Balance reserve as on 01/04/20	8.76 mil.Tonn	8.76 mil.Tonn	
1f	General remarks of inspecting officers on geology, exploration etc			

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	RW &RE block	RW &RE block	as per the proposal
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed	Yes ,Seperted bench for Top soil and Over burdem maintained	No top soil development
2c	Stripping ratio or ore to OB ratio	1:1.15	1:1.15	nil
2d	Quantity of topsoil generation in m3	NIL	NIL	no Top soil generation
2e	Quantity of overburden generation in m3	191325 M3	164769 m3	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	---	----	development of pit is found to be satisfactory
----	---	-----	------	--

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one	one	
3b	Quantity of ROM mineral production proposed	481700 tonnes	342272 tonnes	with in the limite
3c	Recovery of sailable/usable mineral from ROM production	80%	80%	nil
3d	Quantity of mineral reject generation	554845 Tonnes	477831 Tonnes	
3e	Grade of mineral rejects generation and threshold value declared.	<35 Cao	<35 Cao	
3f	Quantity of sub grade mineral generation.	NIL	NIL	no sub grademineral
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	no sub grademineral
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA	no sub grade
3j	Provision of drilling and blasting in mineral benches	yes	as per the proposal	nil

3k	Provision of mining machineries in mineral benches	yes	yes	nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes	yes	nil
3m	Total area covered under excavation/pits	67.13 Ha	67.13 Ha	nil
3n	Ore to OB ratio for the pit/mine during the year.	1:1.72 approx	1:1.39	
3o	Total area put in use under different heads at the end of year	2012-13- 80514 Tonnes 2013-14- 279105 Tonnes 2014-15- 279105 Tonnes 2014-15- 243720 Tonnes 2015-16- 320675 Tonnes 2016-17- 48110Tonnes 2017-18-159818 2018-19-167000	2012-13- 254935 Tonnes 2013-14- 279105 Tonnes 2014-15- 480808 Tonnes 2015-16- 320651 Tonnes 2016-17-345358 Tonnes 2017-18-151018 2018-19-240337 (up to Feb 2019)	
3p	Production of ROM mineral during the last five year period as applicable	--	--	method of mining is found to be satisfactory
3q	General remarks of inspecting officers on method of mining etc.			

---

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	RL 372-381	RL 372-381	
4b	Location of topsoil, OB and mineral reject dumps	RL 372-381	RL 372-381	nil

4c	Number of dumps within lease area and outside of lease area	one	one	as per the proposal
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	one	one	nil
4e	Number of active and alive dumps.	1	1	Nil
4f	Number of dead dumps.	1	1	NIL
4g	Number of dumps established.	yes	as per the proposal	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	no proposal for Retaining	no proposal for Retaining	garland drain carried out
4i	Length of Retaining wall or garland drain all along dumps	Not applicable	Not applicable	no proposal for Retaining
4j	Number of settling ponds	NIL	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management	---	---	waste dump management is found to be 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.	Na	NA	No at the stage
5b	Area under backfilling of mined out area	No proposal	No proposal	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No top soil gernartion	No top soil gernartion	No top soil gernartion

---

5d	Total area fully reclaimed and rehabilitated	No proposal	No proposal	nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	---	--	reclamation does not arise at the stage

---

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 proposed	submitted	nil
6b	Area available for rehabilitation (ha) .	NIL	NIL	not applicable
6c	afforestation done (ha).	0.2 hect	0.15 hect	plantation under progress.
6d	No. of saplings planted during the year	200	200	NIL
6e	Cumulative no .of plants	---	68700	NIL
6f	Any other method of rehabilitation	No othrr method of rehabilitation	No othrr method of rehabilitationnil	nil
6g	Cost incurred on watch and care during the year	NIL	NIL	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	NA	NA	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No backfilling	No backfilling during the year	

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	NA	NA	Back filled area used for dumping
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	No water available
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NIL	NIL	NIL
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	NIL	NIL	No Rehabilitation of waste land within
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NIL	NIL	No Rehabilitation of waste land within lease
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	NA	NA	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Periodical Monitoring	Found to be within the limit
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-----	-----	PMCP compliance & progressive closure operations is found satisfactory

---

**Mineral Conservation:**


---

Sl.No.	Item	Proposals	Actual work	Remarks
--------	------	-----------	-------------	---------

---



7a	ROM Mineral dispatch or grade-wise sorting within lease area	NA	NA	No sorting at mine head
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	All the recoverable all minerals are used for cement manufacturing
7c	Different grade of mineral sorted out at mines.	NA	NA	no sorting
7d	Any beneficiation process at mines	NA	NA	No beneficiation process at mine
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	---	-----	All mineral used for cement manufacturig

---

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NA	NA	No top soil geoured during proposed year
8b	Concurrent use or storage of topsoil	NA	NA	No top soil generation
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed	Sepertes dump for waste	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	NIL

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	proposed production pits mineral is not exhausted.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	NA	NA	NIL
8g	Survival rate	80%	60%	Due to less rain fall
8h	Water sprinkling on roads to control airborne dust	6KL Water Tanker Provided for Dust suppression	Found the 6KL Water Tanker Provided for Dust suppression	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	---	---	aesthetic beauty in and around mines area is found satisfactory

---

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Given	subitted in time	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Mr. Vijay Srinivasan, Mining Engineer, (B.E Mining) Mr.Venkateswarlu STK Dy.Manager(Geology)	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	gien	as per the proposal	nil
9d	Scrutiny of Annual return on afforestation	Given	As per the proposal	nil

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NA	NA	No mineral reject generation
9f	Scrutiny of Annual return on ROM stock and/or graded ore	given	As per the proposal	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	given	Rs 357.58	nil
9h	Scrutiny of Annual return on fixed assets	given	RS. 280000000/-	nil
9k	Scrutiny of Annual return on mining machineries	given	Back hole 3.600 CUM Back hole 2.600 CUM Dumper 40. tonne Blast hole dril 115.00 MM water tanker 8000.00 litre Explosive van 2.000 tonne	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

**Date :**

(S. THIRUNAVUKKARASU)

Indian Bureau of Mines