

**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 :** 38TMN02007

- (i) Name of the Inspecting : **T003** ) **S.THIRUNAVUKKARASU**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri.Pradeep Sahoo DGM(Mining) and Mr.M.RajaMohan Man  
Official with  
Designation
- (iv) Date of Inspection : 07/01/2020
- (v) Prev.inspection date : 18/03/2019

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **MADUKKARAI(G.O.725)**
- (b) **Registration NO.** : **IBM/256/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address  
State : TAMIL NADU  
District : COIMBATORE  
Village :  
Taluka :  
Post office :  
Pin Code :  
FAX No. : 0422-2622286  
E-mail : suresh.wandhare@acclimited  
Phone : 0422-2622525
- (f) Police Station : MADUKARAI
- (g) First opening date : 01/01/1934
- (h) Weekly day of rest : SUN
2. Address for : M/S A.C.C LTD  
correspondance : MADUKKARAI CEMENT WORKS,  
MADUKKARAI-641105
3. (a) Lease Number : TMN0005
- (b) Lease area : 14.29
- (c) Period of lease : 10
- (d) Date of Expiry : 27/11/1999
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 review under 17(1) MCR 2016	17/11/2017

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NA	Mine fully explored
1b	Exploration over lease area for geological axis 1 or 2	NIL	NA	Mine fully explored under G1 level
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NA	Mine fully explored under G1 level
1d	Balance area to be explored to bring Geological axis in 1 or 2	---	1.89 Mio Tonnes	NIL
1e	Balance reserve as on 01/04/20	-----	-----	Geology, exploration found satisfactory
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 (W 200x W 600)	RW (W 200x W 600)	Workings are with as per proposal of MP
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NIL	NA	No top soil generated
2c	Stripping ratio or ore to OB ratio	1:1	1:1.26	NIL
2d	Quantity of topsoil generation in m3	NIL	NA	No top soil generated
2e	Quantity of overburden generation in m3	57586 m3	72632 m3	NIL

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	---	---	Development of pit found satisfactory.
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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one	one	NIL
3b	Quantity of ROM mineral production proposed	334000 tonnes(ROM) Limestone-167000 tonn Waster rock-167000 tonn	377578 (ROM) tonnes Limestone-166945 tonn Waster rock-210633 tonn	Ore percentage is 44% and Waste Percentage is 56% of Actual work. Production is in within the limit
3c	Recovery of sailable/usable mineral from ROM production	50%	44%	ecovery reduced
3d	Quantity of mineral reject generation	167000 Tonnes	210633 Tonnes	NIL
3e	Grade of mineral rejects generation and threshold value declared.	<35 Cao	<35 Cao	NIL
3f	Quantity of sub grade mineral generation.	NIL	NA	No sub grade mineral generation
3g	Grade of sub grade mineral generation	NIL	NA	No sub grade mineral generation
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.	NIL	NA	NIL

3j	Provision of drilling and blasting in mineral benches	NIL	NA	No analysis carried out due to No sub grade Mineral
3k	Provision of mining machineries in mineral benches	Yes	given	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 mts	6 mts	NIL
3m	Total area covered under excavation/pits	9.72 Ha	9.72 Ha	As per the proposal
3n	Ore to OB ratio for the pit/mine during the year.	1:1	1:1.26	Due to increase of intercalated waste during the year
3o	Total area put in use under different heads at the end of year	13.95 Ha	13.95 Ha	NIL
3p	Production of ROM mineral during the last five year period as applicable	2013-14-159845 Tonnes 2014-15-166005 Tonnes 2015-16-151867Tonnes 2016-17-151910 Tonnes 2017-18-159818 Tonnes	2013-14- 102624 Tonnes 2014-15- 127443 Tonnes 2015-16- 151871Tonnes 2016-17- 91728 Tonnes 2017-18-151018 Tonnes	Within the limit
3q	General remarks of inspecting officers on method of mining etc.	----	----	Method of mining is found satisfactory.

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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)	NIL	NA	No top soil available in the lease area

4b	Location of topsoil, OB and mineral reject dumps	NIL	NA	NIL
4c	Number of dumps within lease area and outside of lease area	1	1	One matured dump located in South side of lease area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	RW SL 16-18	RW SL 16-18	As per the proposal
4e	Number of active and alive dumps.	NIL	NA	NIL
4f	Number of dead dumps.	NIL	NA	NIL
4g	Number of dumps established.	NIL	NA	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	YES	DONE	Bund and Garland Drains made along the bottom of Matured dump
4i	Length of Retaining wall or garland drain all along dumps	NIL	NA	No proposal for retaining walls
4j	Number of settling ponds	NIL	NA	Not applicable
4k	Specific comments of inspecting officer on waste dump management	----	---	Waste dump management 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.	Proposed	as per the proposal	Backfilling under progassive as per the proposal
5b	Area under backfilling of mined out area	300*60*	50*60	Backfilling under progassive.

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	Na	No top soil available in the lease area
5d	Total area fully reclaimed and rehabilitated	NIL	NA	No Proposal in the MP period as Mine is under working.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	----	---	Backfilling, reclamation is found satisfactorily.

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	Submitted	Submitted in time
6b	Area available for rehabilitation (ha) .	NIL	NA	Not at this stage
6c	afforestation done (ha).	0.250 Ha	0.200 ha	Plantation under progressive
6d	No. of saplings planted during the year	250	200	Plantation under progressive
6e	Cumulative no .of plants	---	71900	NIL
6f	Any other method of rehabilitation	NIL	NA	No other specific method of rehabilitation
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	300*60	50*60	Afforestation done 200 Nos of plants survival rate is 90%

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NA	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	NIL	NA	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	NIL
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)	Periodical Monitoring	Periodical Monitoring	Periodical monitoring is going

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	NIL	NA	No sorting at Mine Head
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NIL	NA	All the Mineral is used for Cement manufacturing.
7c	Different grade of mineral sorted out at mines.	NIL	NA	No different grade
7d	Any beneficiation process at mines	NIL	NA	No beneficiation process at Mines
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	----	-----	Mineral conservation found to be satisfactory

#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NA	During initial stage already removed &Stacked &will be utilized for future
8b	Concurrent use or storage of topsoil	NIL	NIL	stocked top soil used for plantation

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NIL	Use for back filling	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling	Used for Backfilling	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NA	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	NIL	NA	NIL
8g	Survival rate	90%	90%	NIL
8h	Water sprinkling on roads to control airborne dust	6KL Water Tanker Provided for Dust supression	6KL Water Tanker Provided for Dust supression	Found use foe water sprinkling
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	----	---	Aesthetic beauty in and around mines area is found satisfactory

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted	submitted in time	NIL

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mr. Sandeep Khakha, Mining Engineer Mr.Venkateswarlu STK Manager(Geology)	Mr. Sandeep Khakha, Mining Engineer Mr.Venkateswarlu STK Manager(Geology)	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given in the format	13.870	Given in part -I
9d	Scrutiny of Annual return on afforestation	Given in the format	Given	nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given in the format	NIL	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given in the format	0	No stock at mine head
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given in the format	Ex mineprise 449.00	PART - VII (COST OF PRODUCTION)
9h	Scrutiny of Annual return on fixed assets	Given in the format	Rs-280000000	PART II (A) (Capital Structure)
9k	Scrutiny of Annual return on mining machineries	Given in the format	BACK HOE 2.600 CUM 1 BLAST HOST DRILL 115.000 MM 1 DUMPER 50.000 TONNE 1 DUMPER 40.000 TONNE 2	PART - V (General Geology & Mining)

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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