

**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), Shri.Anand Kumar Manag
Official with
Designation
- (iv) Date of Inspection : 18/03/2019
- (v) Prev.inspection date : 15/02/2018

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	NA	NA	Eexplored under G1 level
1b	Exploration over lease area for geological axis 1 or 2	NA	NA	Eexplored under G1 level
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	No exploration proposed
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	Eexplored under G1 level
1e	Balance reserve as on 01/04/20	--	2.30 Mio Tonnes	nil
1f	General remarks of inspecting officers on geology, exploration etc	--	--	geology, exploration is found satisfactory

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	RW04-RW10 RL 388-379 RW10-RW12 RL 388-379 RW04-RW08 RL 377-370 RW04-RW08 RL 370-361 RW08-RW11 RL 370-361 RW10-RW13 RL 368-361 RW11-RW13 RL 355-352 RW09-RW11 RL 349-343	RW04-RW10 RL 388-379 RW10-RW12 RL 388-379 RW04-RW08 RL 377-370 RW10-RW13 RL 368-361 RW11-RW13 RL 355-352	Development wit in the proposals.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Na	NA	Development in the benches, no topsoil.

2c	Stripping ratio or ore to OB ratio	1:1.02	1:1.02	NIL
2d	Quantity of topsoil generation in m3	NA	NA	No top soil generation.
2e	Quantity of overburden generation in m3	56052 m3	56068m3	NIL
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	---	---	Development of pit is lese thsan the proposal.

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	159818 tonnes	151018 tonnes	production with the limite
3c	Recovery of sailable/usable mineral from ROM production	80%	80%	nil
3d	Quantity of mineral reject generation	162553 Tonnes	162800Tonnes	NIL
3e	Grade of mineral rejects generation and threshold value declared.	<35 Cao	<35 Cao	NIL
3f	Quantity of sub grade mineral generation.	NA	NA	No sub grde mineral
3g	Grade of sub grade mineral generation	NA	NA	No sub grde mineral
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	Benefication does not arrise
3j	Provision of drilling and blasting in mineral benches	Yes	as per the proposal	NIL
3k	Provision of mining machineries in mineral benches	Yes	Back hoe -2.600cum abd Blast host drill 115.00MM	nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	as per the proposal	Benche s maintained as per the proposal
3m	Total area covered under excavation/pits	9.17 Ha	9.17 Ha	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:1.02	1:1.02	
3o	Total area put in use under different heads at the end of year	13.40 Ha	13.40 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 2018-19-167000 TONNS	2013-14- 102624 Tonnes 2014-15- 127443 Tonnes 2015-16- 151871Tonnes 2016-17- 91728 Tonnes 2017-18-151018 Tonnes 2018-19-166945(Up to Feb-19)	producton with in limite
3q	General remarks of inspecting officers on method of mining etc.	---	---	method of mining is found to be satisfactory

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	NA	NA	No top soil available in the lease area
4b	Location of topsoil, OB and mineral reject dumps	RW 13-15 365-374	RW 13-15 365-374	Existing top soil dump
4c	Number of dumps within lease area and outside of lease area	NA	NA	No Dump Proposal only backfilling is going
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	No Dump Proposal only backfilling is going
4e	Number of active and alive dumps.	Na	Na	No dumpin , backfilling undeprorgass.
4f	Number of dead dumps.	--	One	NIL
4g	Number of dumps established.	--	One	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	NIL	NIL	NIL
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	Nil
4j	Number of settling ponds	NA	NA	No settling pond.
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.	yes	Backfilliung proposed in mined out area	Nil

5b	Area under backfilling of mined out area	102mX64m	100m x 60m	with in the proposal
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	--	Top siol stored seprtately	Top siol used for plantation
5d	Total area fully reclaimed and rehabilitated	NA	NA	reclamation doesnot arise at the stage.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	---	--	backfilling, reclamation of the mine is found 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	submitted	NIL
6b	Area available for rehabilitation (ha) .	NA	NA	rehabilitation does not arise at the stgsge
6c	afforestation done (ha).	0.25 Hect	0.20 hect	plantation is under progress.
6d	No. of saplings planted during the year	500	450	nil
6e	Cumulative no .of plants	--	68500 nos	nil
6f	Any other method of rehabilitation	Na	Na	No other method
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	Na	na	Not at the stage
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Na	Na	Not at the stage
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Na	na	No proposal
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Na	na	no other specific means.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Na	na	No rehabilitated at the stage
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Na	Na	Na
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Na	na	No rehabilitated proposal
6p	Compliance of environmental monitoring (core zone and buffer zone)	yes proposed	Periodical Monitoring	No adverse remark

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	--	--	PMCP compliance & progressive closure operations is 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	Na	Na	from the ROM the recoverable mineral trnsported to factory
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Na	na	No sorting proposal
7c	Different grade of mineral sorted out at mines.	Na	Na	N sorting proposal
7d	Any beneficiation process at mines	Na	Na	No beneficiation proposal
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	----	---	Mineral conservation & beneficiation issues is found satisfactory.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Na	na	No topsoil generation
8b	Concurrent use or storage of topsoil	Na	Na	No top soil

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	yes	RW 13-15 365-374	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Used for Backfilling	Used for Backfilling	nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	Does not arise at the stage
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	---	iCumulatively 68500 plantation carried ou so far	NIL
8g	Survival rate	80%	80%	Water caresity due to poor rain fall
8h	Water sprinkling on roads to control airborne dust	6KL Water Tanker Provided for Dust suppression	yes ,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 satisfactory.

Compliance of Rule 45:

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

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	given	Mr.Anand Kumar R.S Manager Mining Mr. Vijay Srinivasan, Mining Engineer, (B.E Mining) Mr.Venkateswarlu STK Dy.Manager(Geology)	As per the office reord find correct
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	-----	mine working = 9.720 hect building =0.100 hect Afforestation =0.2 hect	as per the proposal
9d	Scrutiny of Annual return on afforestation	Given	0.20 hect	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	--	Na	No ROM stocked at mine.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	given	Rs.358/-	nil
9h	Scrutiny of Annual return on fixed assets	given	280000000/-	Nil
9k	Scrutiny of Annual return on mining machineris	Given	Back Hol -2.6000CUM...,1 Nos Blast host drill - 115. mm... 1 Nos dumber-35 Tonne ... 2 Nos	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