

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

MCDR inspection REPORT

Chennai regional office

Mine file No : TN/ALR/LST-49.MDS

Mine code : 38TMN38009

- (i) Name of the Inspecting : **J103**) **V. Jaya Krishna Babu**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : **D.C.REDDY,AME, M.R. VENKATESAN, SR.DGM (MINES)**
Official with
Designation
- (iv) Date of Inspection : 16/11/2018
- (v) Prev.inspection date : 20/08/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **TULAR LIMESTONE MINE(136**
- (b) **Registration NO.** : **IBM/638/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : TAMIL NADU
- District : ARIYALUR
- Village : TULAR MANAKUDAYAN
- Taluka : SENDURAI
- Post office : CEMENT NAGAR
- Pin Code : 621730
- FAX No. : 04329-248303
- E-mail : mclalr@madras cements.co.i
- Phone : 04329-248305, 248306
- (f) Police Station : DALAVOI
- (g) First opening date : 29/10/2008
- (h) Weekly day of rest : SUN
2. Address for : GENERAL MANAGER (MINES)
correspondance : RAMCO CEMENTS LIMITED, (FORMERLY:MADRAS CEMENTS)
ALATHIYUR, DALAVOI, TEH-SENDURAI, DISTT- ARIYALU
3. (a) Lease Number : TMN1044
- (b) Lease area : 136.11
- (c) Period of lease : 30
- (d) Date of Expiry : 17/09/2038
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : MADRAS CEMENTS LIMITED
 Auras Corporate Center Vth
 Floor, 98 A Dr.Radha
 Krishnan salai, Mylapore
 CHENNAI CITY TAMIL NADU
 Phone:044-28478666
 FAX :044-28478676

Owner : P.R.VENKETRAMA RAJA
 98-A,AURAS CORPORATE CENTRE
 RADHAKRISHNAN
 SALAI,MYLAPORE CHENNAI
 CHENNAI CITY TAMIL NADU
 Phone:
 FAX :

Agent : ASHISH KUMAR SRIVASTAVA
 ALATHIYUR CEMENT WORKS
 CEMENT NAGAR POST ARIYALUR
 DT. ARIYALUR TAMIL NADU
 Phone:
 FAX :

Geologist
 Name : T.RAMAN,Full Time
 Qualification : M.Sc- geology
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	21/04/2006
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	06/06/2013
	:	Modif.approved Mining Scheme	08/07/2015
	:	MP modif under MCR 1960	14/06/2016
	:	MP review under 17(1) MCR 2016	06/11/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	EXPLORATION COMPLETED
1b	Exploration over lease area for geological axis 1 or 2	G1	G1	EXPLORATION COMPLETED FOR PROVED RESERVES
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NIL	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	
1e	Balance reserve as on 01/04/20	-	10958250	
1f	General remarks of inspecting officers on geology, exploration etc	-	-	EXPLORATION CARRIED OUT IS ADEQUATE.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	ML 9-12	ML 9-12	WORKINGS AS PER PROPOSALS.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	YES	YES	SEPARATE BENCHES FORMED IN TOPSOIL, OB AND MINERAL.
2c	Stripping ratio or ore to OB ratio	1:2.74	1:2.68	-
2d	Quantity of topsoil generation in m3	371407	142350	DUE TO LESS DEVELOPMENT WORK.
2e	Quantity of overburden generation in m3	3736270	3164209	PRODUCTION REDUCED DEPEND ON PLANT OFF TAKE.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	LESS DEVELOPMENT AND PRODUCTION DUE TO LOW OFFTAKE OF PLANT.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2	2	AS PER PROPOSAL
3b	Quantity of ROM mineral production proposed	1496983 TONNES	1232976	-
3c	Recovery of sailable/usable mineral from ROM production	1496983 TONNES	1232976 TONNES	-
3d	Quantity of mineral reject generation	NIL	NIL	-
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	-
3f	Quantity of sub grade mineral generation.	NIL	NIL	
3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA	ENTIRE ROM IS CONSUMED.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA	-
3j	Provision of drilling and blasting in mineral benches	NO	NA	DRILLING AND BLASTING AS A CONTINGENCY MEASURE.
3k	Provision of mining machineries in mineral benches	YES	YES	

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	YES	YES	SUITABLE BENCH HEIGHTS MAINTAINES.
3m	Total area covered under excavation/pits	59.26 HC	59.26 HC	-
3n	Ore to OB ratio for the pit/mine during the year.	1:2.74	1:2.68	-
3o	Total area put in use under different heads at the end of year	CURRENT WORKINGS - 59.26 HC STORAGE TOPSOIL - 6.80 HC OB - 3.8 HC MINERAL STORAGE - 5.4 HC INFRA - 0.06 HC ROADS -5.63 HC GREEN BELT - 13.3 HC OTHERS - 21.52 HC WASTE DISPOSAL - 10.60 HC PLANT & MACHINERY - 5.69 HC OTHERS (GREEN BELT) - 16.016	CURRENT WORKINGS - 59.26 HC STORAGE TOPSOIL - 6.80 HC WASTE DISPOSAL - 10.60 HC PLANT & MACHINERY - 5.69 HC OTHERS (GREEN BELT) - 16.016 HC	
3p	Production of ROM mineral during the last five year period as applicable	2017-18 - 1496983 2016-17 - 1496013 2015-16 - 1493589 2014-15 - 1204000 2013-14 - 919000	2017-18 - 1232976 2016-17 - 1217086 2015-16 - 1013395 2014-15 - 920230 2013-14 - 729225	-
3q	General remarks of inspecting officers on method of mining etc.	-	-	MINING OPERATIONS ARE CARRIEDOUT IN SYSTAMATIC WAY.

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	SEPARATELY STACKED.
4b	Location of topsoil, OB and mineral reject dumps	400-900	400-900	AS PER PROPOSALS
4c	Number of dumps within lease area and outside of lease area	2	2	DUMPING WITH IN LEASE AREA.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	RL - 74	RL - 74.38	AS PER PROPOSAL.
4e	Number of active and alive dumps.	1	1	OB DUMP REHANDLING ON PROGRESS.
4f	Number of dead dumps.	NIL	NIL	-
4g	Number of dumps established.	2	2	ONE TOPSOIL AND ONE OB DUMP.
4h	Whether Retaining wall or garland drain all along dumps are there.	YES	YES	-
4i	Length of Retaining wall or garland drain all along dumps	YES	YES	2672 X 8 X 2.
4j	Number of settling ponds	1	1	-
4k	Specific comments of inspecting officer on waste dump management	-	-	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	YES	BACKFILLING AFTER EXTRACTION OF MINERAL.

5b	Area under backfilling of mined out area	7.52	3.30	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	-	-	AS PER PROPOSAL.
5d	Total area fully reclaimed and rehabilitated	-	5.0 HC	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	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).	-	SUBMITTED.	
6b	Area available for rehabilitation (ha) .	-	-	
6c	afforestation done (ha).	0.25 HC	2.72 HC	
6d	No. of saplings planted during the year	500	6791	
6e	Cumulative no .of plants	19600	42341	
6f	Any other method of rehabilitation	NIL	NIL	
6g	Cost incurred on watch and care during the year	RS . .37500	RS . 509325	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	-	10 HC (600 X 150 X 55M)	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	-	0.73	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation 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)	YES	QUARTERLY RETURNS SUBMITTED.	VALUES ARE WITH IN THE LIMITS.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	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	1496983 TONNES	1232976 TONNES	PRODUCTION TARGET NOT ACHIEVED, DUE TO LOW OFFTAKE OF PLANT.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	-	-	ENTIRE ROM CONSUMED.
7c	Different grade of mineral sorted out at mines.	NIL	NIL	-
7d	Any beneficiation process at mines	NIL	NIL	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	SATISFACTORY

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	YES	YES	TOP SOIL IS SEPARATELY REMOVED
8b	Concurrent use or storage of topsoil	YES	YES	BOTH ARE PRACTISED

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	YES	YES	SEPARATE DUMPS ARE MAINTAINED.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	YES	YES	OB IS BEING USED FOR RECLAMATION OF MINED OUTAREA.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	YES	YES	RECLAMATION IS BEING PRACTISED IN A PHASED MANNER.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2500	6791	
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	YES	YES	WATER SPRINKLING ON HAUL ROADS AND TRANSIT POINTS.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	SATISFACTORY.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	YES	LESSEE SUBMITTED MONTHLY AND ANNUAL RETURNS.	-

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	DETAILS GIVEN	FOUND CORRECT.	SATISFACTORY
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	INFORMATION FURNISHED IN AR.	FOUND SATISFACTORY.	-
9d	Scrutiny of Annual return on afforestation	DETAILS GIVEN.	FOUND SATISFACTORY.	-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	ENTIRE ROM CONSUMED.	ENTIRE CEMENT GRADE ROM CONSUMED IN PLANT.	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	GIVEN IN AR.	ENTIRE ROM IS CEMENT GRADE.	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	DETAILS GIVEN.	CAPTIVE USE. DETAILS FOUND SATISFACTORY.	-
9h	Scrutiny of Annual return on fixed assets	INFORMATION NOT FURNISHED	DURING THE INSPECTION SR. DGM MINES AND MINES MANAGER ARE ADVISED TO FURNISH THE RELEVANT INFORMATION RELATED TO THE LEASE AND ALL THE COLUMNS MUST BE FILLED.	-
9k	Scrutiny of Annual return on mining machineries	YES GIVEN.	FOUND SATISFACTORY.	-

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
MCDR17	Rule 31(1)	26/11/2018			

Date :

(V. Jaya Krishna Babu)

Indian Bureau of Mines