

**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 : **T003**) **S.THIRUNAVUKKARASU**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : **MR.VENKATESH.Sr.DGM-MINES J.RAVI.MANAGER-GEOLOGY,K.EL**
Official with
Designation
- (iv) Date of Inspection : 21/06/2019
- (v) Prev.inspection date : 16/11/2018

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 : THE RAMCO CEMENTS LTD
 AURAS CORPORATE CENTRE 98-
 A,RADHAKRISHNAN ROAD
 MYLAPORE,CHENNAI CHENNAI
 CITY TAMIL NADU
 Phone:
 FAX :

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 :

Mining Engineer

Name : A. Santhosh,Full Time
 Qualification : B.E mining
 Appointment/ : 01/07/2015
 Termination date

Geologist

Name : T.RAMAN,Full Time
 Qualification : M.Sc- geology
 Appointment/ : 31/03/2019
 Termination date

Geologist

Name : J. Ravi,Full Time
 Qualification : M.Sc Geology
 Appointment/ : 01/04/2019
 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	Not applicable	No Backlog, mine is fully explored undr G1 Level
1b	Exploration over lease area for geological axis 1 or 2	NIL	Not applicable	mine is fully explored undr G1 Level
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NIL	mine is fully explored undr G1 Level
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Balance area to be explored	Fully explore	No Balance area to be explored
1e	Balance reserve as on 01/04/20	--	83,12,492	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	ML 9-11 900 to 1200	ML 9-11 900 to 1200	As per the proposal
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Topsoil - 2, OB- 4	Topsoil - 2, OB- 4	As per the proposal
2c	Stripping ratio or ore to OB ratio	1 : 1.81	1 : 1.88	Littele variation due to increce of OB
2d	Quantity of topsoil generation in m3	1,37,690 tonns	1,31,957 tonns	with in the limite
2e	Quantity of overburden generation in m3	15,50,257 tonns	13,55,941 tonns	no deviation

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

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	two	Two	as per the proposal
3b	Quantity of ROM mineral production proposed	14,91,224	14,32,789	As per proposal
3c	Recovery of sailable/usable mineral from ROM production	14,91,224	14,32,789	As per proposal
3d	Quantity of mineral reject generation	No mineral reject generation	NIL	No mineral reject generation
3e	Grade of mineral rejects generation and threshold value declared.	NIL	Not applicable	Not applicable
3f	Quantity of sub grade mineral generation.	NIL	NIL	No sub-grade mineral generation
3g	Grade of sub grade mineral generation	NIL	NIL	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	Not Required	No sub grade mineral hence neneficiation is not Required
3j	Provision of drilling and blasting in mineral benches	NIL	NIL	Using Surface miner.

3k	Provision of mining machineries in mineral benches	Proposed	Surface Miner-1, Dumper-2, Shovel-3, Dozer-1, Tipper-14, Water Tanker-1, Explosive Van-1, Other HEMM-2 Blast Host Drill-1	As per proposal
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height - 5m, Width - 8m	Height - 5m, Width - 8m	As per proposal
3m	Total area covered under excavation/pits	59.26 haect	59.26 haect	As per proposal
3n	Ore to OB ratio for the pit/mine during the year.	1 : 1.81	1 : 1.81	As per proposal
3o	Total area put in use under different heads at the end of year	Minedout land - 59.26 Reclaimed - 6.05 Ha Road & Infra - 5.69 Ha Greenbelt - 16.016 Ha	Minedout land - 59.26 Reclaimed - 6.05 Ha Road & Infra - 5.69 Ha Greenbelt - 16.016 Ha	As per the proposal
3p	Production of ROM mineral during the last five year period as applicable	2014-15 1204000 2015-16 1493589 2016-17 1496013 2017-18 1496983 2018-19 1491224	2014-15 1204000 920230 2015-16 1493589 1013395 2016-17 1496013 1217086 2017-18 1496983 1232976 2018-19 1491224 1432789	production proposal are with in the limites
3q	General remarks of inspecting officers on method of mining etc.	--	--	method of mining is found 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)	Topsoil are dumped separately	Topsoil are dumped separately	Separately stacked
4b	Location of topsoil, OB and mineral reject dumps	Top Soil-2 ML 2 - 4 Grid 1000 to 1100 ML -1 - 0 Grid 400- 800	Top Soil-2 ML 2 - 4 Grid 1000 to 1100 ML -1 - 0 Grid 400- 800	As per the proposal
4c	Number of dumps within lease area and outside of lease area	2	2	Dumped within lease area as per proposal
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	RL - 74	RL - 74	As per proposal
4e	Number of active and alive dumps.	2	2	Two Topsoil
4f	Number of dead dumps.	NIL		
4g	Number of dumps established.	NIL	NIL	No dead dumps
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	garland drain all along dumps	As per proposal
4i	Length of Retaining wall or garland drain all along dumps	485 x 8 x 2.5 mtr 535 x 8 x 2.5 mtr	485 x 8 x 2.5 mtr 535 x 8 x 2.5 mtr	garland drain all along dump
4j	Number of settling ponds	1	1	Existing settling pond de silted.
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
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Backfilling proposed after All minerals are mined.	Mineral mining is under prograse	As per the proposal
5b	Area under backfilling of mined out area	4.20	1.05	backfilling is under peogressive
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NIL	After fully backe filled the topsoil used for spread over.
5d	Total area fully reclaimed and rehabilitated	No proposal	NIL	Backfilling under prograssive
5e	General remarks of inspecting officers on backfilling and reclamation etc.	****	***	backfilling, reclamation is founs 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).	Yes	Yes	Submitted to IBM in time
6b	Area available for rehabilitation (ha) .	Backfilling proposed	Backfilling started	Backfilling founs as per the proposal
6c	afforestation done (ha).	1.50	8.40	Afforestation cied outmore than the proposal
6d	No. of saplings planted during the year	3,750	21,000	Plantation carried out more than tghe proposal
6e	Cumulative no .of plants	23,350	63,341	For entire mine area
6f	Any other method of rehabilitation	No proposal on mined out benches	mined out benches	Not applicabile
6g	Cost incurred on watch and care during the year	Rs. 2,81,250	Rs.2,81,250	As per Proposal

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NIL	NIL	Reclamation after fully backe filled
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)Afforestation on backfilled area	NIL	NIL	backfilling under perogressive.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	After mining is completed will be making water reservoir.	After mining is completed will be making water reservoir.	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NO	NIL	No other specific means
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NIL	Not applicable	No waste land
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	Not applicable	Not applicable
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NIL	Not applicable	No waste land within lease

6p	Compliance of environmental monitoring (core zone and buffer zone)	----	---	PMCP compliance & progressive closure operations is satisfactory
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NIL	Not applicable	No grade-wise sorting within lease area
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NIL	Not applicable	No grade-wise sorting within lease area
7c	Different grade of mineral sorted out at mines.	NIL	Not applicable	Different grade onil one grase
7d	Any beneficiation process at mines	NIL	Not applicable	No beneficiation process at mines
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	--	--	Mineral conservation & beneficiation issues is good,

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes	Top soil is separately removed and stocled

8b	Concurrent use or storage of topsoil	YES	Used for plantation	Used for plantation
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Only backfilling is done	backfilling progarsrive	as per the proposal
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	yes	Use of overburden for backfilling	Use of overburden for backfilling
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes, afer backfilling	backfilling under progarsrive	Reclamation is being practiced in a phased manner
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	23,350	63,341	No deviaton
8g	Survival rate	82 %	82 %	Nil
8h	Water sprinkling on roads to control airborne dust	Yes	Water sprinkling carried out	Water sprinkling is being done
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	---	---	aesthetic beauty in and around mines area is found goog

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Given	Submitted for the year 2018-19	Submitted in time

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Appointed as per rule	as per forme submitted to IBM
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Viven	Given in Part - i. Sl no.12	Annual return on land use pattern is given
9d	Scrutiny of Annual return on afforestation	Provided in Annual Return	Given in Part - V. Sl no.4.4	as per Rule
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No reject	Given in Part - V. Sl no.4.2	A per the proposal
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Mentioned	Given in Part - VI. Sl no.1	as per Rule
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Given in Part - VI. Sl no.5	verified found correct
9h	Scrutiny of Annual return on fixed assets	Provided in Annual Return	Given in Part - IIA. Sl no.1	verified found correct
9k	Scrutiny of Annual return on mining machineries	Given	Surface Miner-1, Dumper-2, Shovel-3, Dozer-1, Tipper-14, Water Tanker-1, Explosive Van-1, Other HEMM-2 Blast Host Drill-1	verified found correct

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