INDIAN BUREAU OF MINES MINERALS DEVELOPMENT 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 : $\tt J103$) $\tt V. Jaya Krishna Babu$

Officer and ID No.

(ii) Designation : Regional Controller Mines

(iii) Accompaning mine : J.Ravi, Sr Manager, A.Santosh, AGM

Official with Designation

(iv) Date of Inspection : 03/03/2020
(v) Prev.inspection date : 21/06/2019

PART-I : GENERAL INFORMATION

L. (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 : 20

(d) Date of Expiry : 20/10/2028

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

: Fresh under rule 22 MCR1960 6. Date of approval of Mining 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

PAGE : 3

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	Exploration completed for entire lease area.
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.	Exploration already completed.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Entire area has been explored G1 category.
1e	Balance reserve as on 01/04/20		8168255(111) 7878100(211) 6752520(331)	
1f	General remarks of inspecting officers on geology, exploration etc		Entire area has been explored with 128 no of bore holes.	Satisfactory.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	ML 11 2019-2020: ML	Working has not been carriedout as per the approved ROMP, especially production and backfilling are lagging behind .	Violation of rule 11(2) of MCDR-2017 has been communicated to lessee vide letter no.TN/ALR/Lst-49.Mds dated 11.3.2020.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	benches in	As proposed ,separate benches in topsoil, over burden and mineral are mantained.	Satisfatory.
2c	Stripping ratio or ore to OB ratio	1 : 2.28	1 : 2.36	-

2d	Quantity of topsoil generation in m3	1,07,930	78,798	-
2e	Quantity of overburden generation in m3	20,20,113	17,01,768	-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Violation of rule 11(2) of MCDR-2017 has been communicated to lessee .

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Multiple pits.	Working has been carriedout contrary to the the approved ROMP, due to lagging in previous year proposals ie production and backfilling.	_
3b	Quantity of ROM mineral production proposed	Year:2018- 19=1494224 Tons Year:2019-20 =1490017 Tons	Year:2018-19=1432790 Tons Year:2019-20 =1442361.90 Tons	Within approved limits.But, develop reached beyond the proposed area for which violation of rule 11(2) of MCDR-2017 has been communicated.
3с	Recovery of sailable/usable mineral from ROM production	100% of ROM.	As proposed 100 % of ROM .	Entire ROM is being recovered.
3d	Quantity of mineral reject generation	Nil.	Nil.	-
3e	Grade of mineral rejects generation and threshold value declared.	Nil.	No generation of mineral reject.	-
3f	Quantity of sub grade mineral generation.	Nil.	No generation of mineral sub grade mineral.	
3g	Grade of sub grade mineral generation	Nil.	Not applicable.	

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised.	Mechanised and conventional method of mining by surface miner technology.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil.	Nil.	No generation of mineral reject/sub grade mineral.
3j	Provision of drilling and blasting in mineral benches	Nil.	Nil.	As a contingency measure ,when the surface minner is under break-down for long period.
3k	Provision of mining machineries in mineral benches	Yes.	The following machinary:Surface Miner-1,Dumper-2,Shovel-3,Dozer-1,Tipper-14,Water Tanker-1,Explosive Van-1,Other HEMM-2,Blast Host Drill-1.	Surface Minor operation is in practice for production.
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes.	Yes.	Suitable benches are maintained with height 5m and 8m width.
3m	Total area covered under excavation/pits	59.26на.	59.26на.	-
3n	Ore to OB ratio for the pit/mine during the year.	1: 2.28	1: 2.36	-
30	Total area put in use under different heads at the end of year	Minedout land - 59.26Ha , Reclaimed - 6.05 Ha, Road & Infra - 5.69 Ha Greenbelt - 16.016 Ha	Reclaimed - 6.05 Ha Road & Infra - 5.69 Ha Greenbelt - 16.016 Ha	_

Production

quantites achieved

are with in the

approved limits.

3р Production of ROM mineral during the last five year period as applicable

Year 2015-Year 2015-16:1013395 16:1493589 Tonnes Tonnes

2016-17:1217086

2016- Tonnes 2017-18:1232976

Tonnes 2018-19:1432789

2017-18:1496983 Tonnes

Tonnes 2019-

2018- 20:1442361.90 Tonnes

19:1491224 Tonnes

17:1496013 Tonnes

2019-20:1490017

Tonnes

Mining operations are not as per the approved proposals accorded

for which violation of rule 11(2) of MCDR-2017

has been communicated to lessee on 11.3.2020.

General remarks 3q 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)	Yes.	As proposed separate dumps for top soil and OB are maintained.	2 no of top soil and 4 no of OB dumps are maintained.
4b		1100 OB - 2	ML 2 - 4 Grid 1000 to 1100 OB - 2 ML -1 - 0 Grid 400- 800 ML - 5-10	_
4c	Number of dumps within lease area and outside of lease area	Within ML-2 nos.	Within ML-2 nos.	As proposed within ML-2nos.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	RL - 74	RL - 74.38	-

Remarks

4e	Number of active and alive dumps.	2nos.	2nos.	Topsoil & OB dumps.
4f	Number of dead dumps.	Nil.	Nil.	-
4g	Number of dumps established.	Nil.	Nil.	-
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes.	Garland drain all along the dumps.	As proposed.
4i	Length of Retaining wall or garland drain all along dumps	mtr 535 x 8 x 2.5	485 x 8 x 2.5 mtr 535 x 8 x 2.5 mtr	Garland drain all along dumps.
4j	Number of settling ponds	1	1	As proposed.
4k	Specific comments of inspecting officer on waste dump management			Existing settling pond de silted.Waste dump management found satisfactory.

Solid Waste Management - Backfilling:

No. of saplings 2019planted during 20:3750nos. the year

Propasals

Sl.No.

бd

Item

	Progressive Mine Clousre Plan:				
Sl.No.	Item	Propasals	Actual work	Remarks	
ба	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes.	Submitted.	_	
6b	Area available for rehabilitation (ha) .	Yes.	2018-19: against 4.20ha, 2019-20: against 5.25ha, Reclamation is lagging behind between ML6 to ML8 where there is no proposal for the year 2019-20 as per the approved ROMP.	Violation of rule 11(2) of MCDR-2017 has been communicated.	
6c	afforestation done (ha).	2018-19:3.00ha 2019-20:4.00ha		-	

Actual work

6e	Cumulative no .of plants	37100nos.	71341nos.	-
6f	Any other method of rehabilitation	Nil.	Nil.	-
6g	Cost incurred on watch and care during the year	Rs.10,31,250/-	Rs.6,00,000/-	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	1.50ha	65m x 165m x 40m.backfilled area is lagging behind between ML6 to ML8 where there is no proposal for the year 2019-20 as per the approved ROMP.	Violation of rule 11(2) of MCDR-2017 has been communicated.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Yes.	Being carriedout.	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	Nil.	Nil.	_
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil.	Nil.	Nil.
61	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.	_

60	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 monitoring reports on environment Air, Water and Noise are submitted.	Monitoring outputs are within limits.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Nil.	Entire ROM is being dispatched to the plant for captive consumption.	-
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Nil.	Entire ROM is being transported to the plant for captive consumption.	-
7с	Different grade of mineral sorted out at mines.	Nil.	Nil.	-
7d	Any beneficiation process at mines .	Nil.	Nil.	No beneficiation method is in practice.Limestone grade as per analysis reports, the content of Cao-51.87%,SiO2-3.92%,Fe2O3-0.3%.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Entire ROM is being used for captive consumption.

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 stacked.
8b	Concurrent use or storage of topsoil	Yes.	Yes.	Both are in practice.
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.	Over buredn used for back filling of minedout area.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes.	Yes.	Reclamation is being practised in phased manner.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	10,000nos.	21,000nos.	satisfactory.
8g	Survival rate	80%	80%	-
8h	Water sprinkling on roads to control airborne dust	Yes.	Yes.10000 Liters tankar is being engaged for the purpose.	Haul roads and transit points are water sprinkled.
3i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Satisfactory.

Sl.No. Item Propasals Actual work Remarks

9a	Status of submission of Monthly and Annual returns	Yes.	Monthly returns are being submitted regularly.AR for the year 2018-19 has been submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information furnished under Part-I of para 7,8.	Provided in parat -I of para 7,8&9 and found correct.	Satisfactory.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Provided under Part-I and para 12.Found satisfactory.	_
9d	Scrutiny of Annual return on afforestation	Information furnished under Part-V of para 4.4.	Provided in part-V of para 4.4.Found satisfactory.	-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Information furnished under Part-V of section 4.	Nil.Provided in part-V and para 4.5(B).	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore		Provided in Part-VI and para 1&2.Entire ROM is cement grade.	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Information furnished under Part-VI of para 5 andPart-VII.	The ex-mine price furnished in H8, i.e. Annual Return for the year 2018-19 is not matching with the ex-mine price furnished in the monthly returns submitted in the year 2018-19.	Violation of rule 45(7)(a) of MCDR-2017 has been communicated.
9h	Scrutiny of Annual return on fixed assets	Information furnished under Part- IIA.	Provided in Part-IIA and Para 1.	-
9k	Scrutiny of Annual return on mining machineries	Information furnished under Part-V of section 5.	Provided in part-V and para 5.Found satisfactory.	-

PAGE: 12

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
MCDR17 Rule 11(2)	11/03/2020			
MCDR17 Rule 45(7)(a	11/03/2020			

Date:

(V. Jaya Krishna Babu)

Indian Bureau of Mines