

**INDIAN BUREAU OF MINES
MINES CONTROL AND CONSERVATION OF MINERAL DIVISION**

MCDR INSPECTION REPORT

Chennai regional office

Mine file No : TN/VOC/LST-7.MDS

Mine code : 38TMN15045

- (i) Name of the Inspecting : (R006) T K RATH
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Sri V.S.Sambasivam,AGM(Mines)
Official with
Designation
- (iv) Date of Inspection : 26-FEB-14
- (v) Prev.inspection date : 19-FEB-11

PART-I : GENERAL INFORMATION

- 1. (a) **Mine Name** : SIVALARPATTI
- (b) Category : A Mechanised
- (c) Type of Working : Opencast
- (d) Postal address :
State : TAMIL NADU
District : THOOTHUKUDI (TUTICORIN)
Village : SIVALARPATTI
Taluka : VILATHIKULAM
Post office : PUDUR
Pin Code :
FAX No. : 04562-256268
E-mail : adminrn@madrascements.co.in
Phone : 04562-256201, 201 & 203
- (e) Police Station :
- (f) First opening date : 01-JUN-95
- 2. Address for : SIVALARPATTI LST MINE
correspondance : PUDUR POST
VIRUDUNAGAR
- 3. (a) Lease Number : TMN1203
- (b) Lease area : 150.15
- (c) Period of lease : 20
- (d) Date of Expiry : 21-MAY-15
- 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.RAMA SUBRAMANYA RAJA
 AURAS CORPORATE CENTRE
 VFLOOR,98A,RADAKRISHNAN R
 MYLAPORE,CHENNAI CHENNAI
 CITY TAMIL NADU
 Phone: 044-8555815
 FAX : 044-830248

Agent : K.GOWRAPPAN, VP(MINING OPERATION)
 RAMASAMYRAJANAGAR
 VIRUDUNAGAR DISTRICT
 VIRUDHUNAGAR TAMIL NADU
 Phone: 04562-56201
 FAX : 04562-45019

Mining Engineer

Name : Shri Durai Murugan, Full Time
 Qualification : BE MINING
 Appointment : 24-OCT-05
 date

6. Date of approval of Mining : 05-AUG-04
 Plan/Scheme of Mining

PART - II : TECHNICAL DETAILS/COMMENTS**1. Details about Average employment :**

Maximum number of persons employed on any day during the year

Employment category	No.of employment	Av. yearly working days
DIRECT		
Managerial	1	312
Supervisory	7	312
Workers	15	312
CONTRACT		
Others	12	312

2. Community Development Plan (in and around the mines) : Proposed action and expenditure towards socio-economic development.

Action during the year	Expenditure in Rs. Lakhs for				Remarks
	previous year		current year		
	Proposed	Incurred	Proposed	Incurred	
Health		0.60			
Others		9.00			
Recreation		0.75			
Sanitation		3.50			
Training		6.50			
TOTAL		20.35			

3. Write up on the status of additional prospecting/exploration including progressive improvement since last inspection.

It is observed during the current inspection ,that lessee has not carried out 2 no of bore holes proposed under exploration programme. The violation of rule 13(1)has already been communicated to the lessee on 4.3.2014.

<u>RESERVE POSITION AS ON 01/04/2013</u>		
LIMESTONE		
Category	Quantity in Tonnes	Grade
Proved	9726752	
Probable		
Possible		
Total	9726752	

<u>PRODUCTION FOR THE PREVIOUS YEAR 2012 - 2013</u>		
Mineral	Production	Unit
LIMESTONE	498807	TON

<u>Exploration data as on 31/03/2013</u>		
No. of Boreholes	No. of Pits	No. of Trenches
0	0	0

<u>OVERBURDEN HANDLED DURING PREVIOUS YEAR 2012 - 2013</u>	
Overburden/waste removed (in m3) :	19920297

4. Assessment of mine development in respect of progressive improvement in scientific development of mine.

Development is carried out systematically as per the proposals made in approved scheme of mining.

<u>PIT/UNDERGROUND DEVELOPMENT</u>			
			(In meters)
Pit No. : north block			
Pit size :	850mX160mX32m	Max. Depth :	Overall slope angle :
	No. of benches	Average height	Average width
Overburden ->	7	9	22
Minerals ->	2	9	80
Pit No. : south block			
Pit size :	900mX280mX68m	Max. Depth :	Overall slope angle :
	No. of benches	Average height	Average width
Overburden ->	7	9	80
Minerals ->	2	9	80

5. Describe briefly method of mining highlighting scientific changes in the methodology of mining observed leading to over all improvement.

The mine is presently worked by Conventional system of mining, i.e, by carrying out deep hole drilling and blasting operations. It is a fully mechanised mine operations with heavy earth moving mechaneries. The height of benches is maintained at 9m, the width of the bench is maintained higher than the height of the bench. Pneumatically operated wagon drills of 100 - 115 mm diameter holes are engaged for carrying out drilling operations.

6. Brief description of processing/beneficiation of mineral highlighting the progressive improvement.

The ROM is reduced to -25 size after two stage of crushing and subjected to high intensity magnetic separation. The intrusive material is magnetically susceptible and is separated out. This material is used as a road laying material in the mine. The beneficiation consists of removal of the black rock waste. The secondary crusher output of - 25mm size is screened to get -25 + 12mm, -12 + 6mm, and -6mm fractions. In each fraction rejection material is picked out by the high intensity magnetic separator. The black rock content is reduced by about 50% in this screening process.

7. Hightlight of efforts made for conservation of mineral with reference to judicious exploitation of mineral deposit as well as utilisation of low grade mineral/mineral rejects and its stacking/preservation for use in future.

No generation of sub grade mineral. The high intensity magnetic separation is being carried out to remove the waste mixed while generation of ROM .

Utilisation of Sub Grade Mineral and Mineral Rejects

Generated	Utilised	Stacked	(In Ton.)
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8. Hightlight of efforts made towards reclamation and rehabilitation of land degraded and progress made thereof.

Not applicable .As the mine is working and not reached that stage.

9. Comments on the steps taken by the lessee towards maintaining environment and monitoring of environmental parameters to ensure the qualitative improvement in the environment and ecology.

Regular environment monitoring is being carried out in the mine. Air quality is being monitored. All the parameters of ambient Air ie SPM, RPM, SO₂, NO_x, CO are within the permissible limits.

Water Management

Season	Station type	Station name	Parameter	Value	
				Actual	Excess

Air data for excess parameters

Season	Station name	Type of area	Parameter	Value	
				Actual	Excess

PLANTATION DURING THE PREVIOUS YEAR 2012 - 2013

Area in Hect.

TOP SOIL MANAGEMENT

Quantity as on 31/03/2013

- 10. Status of compliance of MCDR, 1988, including therewith the rectification of the outstanding violation of rules.**

The violation for rule 13(1) was observed during the current inspection for not carrying out 2 no of bore holes under exploration programme proposed , The violation has already been communicated to the lessee on 4.3.2014.

- 11. A note on the justification in case of suspension of mining operation under rule 13(2) or prohibition of deployment of any person under rule 56 of MCDR, 19888, if recommended.**

Not applicale at this stage.

- 12. Scrutiny of annual returns on cost of production, reserve, production, pit mouth value, stock, land use pattern and fixed assets.**

Annual return submitted for the year 2012-13 has been verified and found to be in order.

PART - III : PERFORMANCE OF MINE OWNER

(In case of lease expiring within 2 years - as per guidelines)

Lease expiring by may 2015.

PART - IV : PROPOSALS FOR FURTHER ACTION FOR :

Indian Bureau of Mines (any issue related to CGPB, SGPB, Assistance, Consultancy, Annual Programme and studies, etc.)

NIL

State Government (Illegal mining, mining dispute, infrastructure, Mineral based industry, Mineral policy, etc.)

Indian Bureau of Mines

NIL

The Central Government (Infrastructure, Development, Mineral policy and Legislation, Mineral based industry, etc.)

NIL

(T K RATH)

Date :

Regional Controller Mines