



Chettinad Cement / Karikkali / DVLM / Environmental Statement / 2017
28th Sep, 2017

The Member Secretary,
Tamil Nadu Pollution Control Board,
76, Mount Salai, Guindy,
Chennai – 600 032.

Respected Sir,

Sub : Submission of Environmental Statement in “Form V” under Environment (Protection) Rules, 1986 for the year 2016-17 - Devarmalai Limestone Mines of Chettinad Cement Corporation Private Limited, Devarmalai & Melapaguthi Vilalges, kadavur Taulk, Karur District, Tamilnadu – Extent of Mining Lease Area 166.535 ha – Mining Production Capacity 0.8 million ton per annum.

We submit herewith the “**Environmental Statement**” pertaining to our Devarmalai Limestone Mine (Extent of Mining Lease Area : 166.535 ha, Mining Production Capacity : 0.8 million ton per annum) located at Devarmalai & Melapaguthi Vilalges, Kadavur Taulk, Karur District, Tamilnadu in the prescribed format (**Form V**) under Environment (Protection) Rules, 1986 for the year 2016-2017.

Kindly acknowledge the receipt of the same.

Thanking you,

Yours faithfully,
for **CHETTINAD CEMENT CORPORATION PRIVATE LIMITED,**

M.U.SUBRAMANEYAN
JOINT PRESIDENT (WORKS)

Copy to :

1. Scientist ‘E’ & In-charge , CPCB, Bangalore
2. Director, Regional Office, MoEF & CC, Chennai
3. DEE, TNPCB, Karur

Chettinad Cement Corporation Private Limited
Rani Meyyammai Nagar, Karikkali Po, Guziliamparai (Via)
Dindigul Dist 624 703, Tamilnadu, India.
T +91 4551 234431, 234441, 234602
F + 91 4551 234608
E-mail: karikkali@chettinadcement.com
www.chettinadcement.com

Head Office :
4th Floor, Rani Seethai Hall Building
603, Anna Salai, Chennai 600 006
T +91 44 2829 2727, 4214 9955
E info@chettinadcement.com
F +94 44 28291558
www.chettinadcement.com

FORM - V

(Rule 14 of Environment (Protection) Rules, 1986)

Environmental statement for the financial year ending the 31st March 2017

PART - A

- (i) Name and address of the owner / : **M.U.SUBRAMANEYAN,**
occupier of the industry operation or **Joint President (Works)**
process. **Devarmalai Limestone Mines**
Chettinad cement corporation Private Ltd.,
Devarmalai & Melapaguthi Village,
Kadavur Taulk, Karur District
Tamilnadu , Pin code - 621 301
- (ii) Industry category
Primary (STC Code) : Red Medium
Secondary (SIC Code) : 1035- Mining and Ore beneficiation
- (iii) Production Capacity : 0.80 MTPA (Million tons per annum)
- (iv) Year of Establishment : 1990
- (v) Date of Last Environment statement : 26th Sep, 2016
submitted

PART - B

Water and Raw Material Consumption

(i) Water Consumption m³/day

Process (Dust Suppression, Green Belt Development)	:	9.51
Cooling	:	NIL
Domestic	:	0.82

Name of the Product	Process water consumption* (m ³) per unit (metric ton) of Product output	
	During the previous financial year 2015-2016	During the current financial year 2016-2017
Limestone	0.00402	0.00400

* Water used for Dust suppression & Greenbelt shown as process water consumption

(ii) Raw Material Consumption:

Name of the raw materials	Name of the Products	Consumption of raw material per unit of Product output	
		During the previous financial year 2015-2016	During the current financial year 2016-2017
No raw material is required as the production activity involves only mining			



PART – C

Pollution Discharged to Environment/unit of output (Parameter as specified in the consent issued)

Parameter as specified in the consent issued			
Pollutants	Quantity of Pollutants discharged (m ³ /day)	Concentrations of pollutants in discharges (Mass/volume)	Percentage of variation from prescribed standards with reasons
(a) Water			
Trade Effluent	No Industrial Waste Water generated from the mining operation		
Sewage	Domestic Waste Water treated in septic tank followed by dispersion trench		
(b) Air - Ambient Air Quality			
Pollutants	Quantity of Pollutants discharged (m ³ /day)	Concentrations of pollutants in Ambient Air (µg/m ³)	Percentage of variation from prescribed standards with reasons
PM 2.5	Not Applicable as there is no point source of emission in Mine	20	Compared to Norm Less by 67 %
PM 10		42	Compared to Norm Less by 58 %
SO ₂		7	Compared to Norm Less by 91 %
NO ₂		8	Compared to Norm Less by 90 %
CO		114.5	Compared to Norm Less by 94 %

PART – D

HAZARDOUS WASTES

(As specified under [Hazardous Wastes (Management, Handling and Transboundary movement) Rules, 2016])

Hazardous Wastes		Total Quantity Generated	
		During the previous financial year 2015-2016	During the current financial year 2016- 2017
(a)	From Process	No Hazardous Waste generated from Mine Operations	
(b)	From pollution control facilities	No Hazardous Waste generated from Pollution Control Facilities	

PART – E

SOLID WASTES

Solid Waste		Total Quantity Generated (metric ton)	
		During the previous financial year 2015 – 2016	During the current financial year 2016 – 2017
(a)	From Process - Rejection (Top soil /Black cotton soil /Red Soil /Black waste rock)	905099	937841
(b)	From pollution control facilities	No Waste generated from Pollution Control Facilities	
(c)	1. Quantity recycled or re-utilized within the unit	Not Applicable	Not Applicable
	2. Sold	Not Applicable	Not Applicable
	3. Disposed	Not Applicable	Not Applicable



PART – F

Please specify the characterizations (in terms of composition of quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes

Name of the Wastes		Quantity	Characteristics	Disposal Practice Adopted
(1)	Hazardous Waste	No Hazardous Waste generated from Mine Operations		
(2)	Solid Waste	Opening stock (01.04.2016) : 2.14 Million tons Generation (Apr'16 –Mar'17) : 0.94 Million tons Consumption (Apr'16-Mar'17) : NIL Closing stock (31.03.2017) : 3.08 Million tons	Solid, Cao : <30% LSF : <70 Sio ₂ : 20 - 40% Fe ₂ O ₃ : 2-10% Mgo : 1-4% Al ₂ O ₃ : 1-5%	Stored within the Mine at Dump Yard for carrying out reclamation work.

PART – G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production

Reduction of specific water consumption from 0.00452 m³ to 0.00438 m³ tons per ton of Limestone

PART – H

Additional measures / investment proposal for environmental protection including abatement of pollution, prevention of pollution

Investment Proposal for Environmental Production

- ❖ Rs 1.0 lakh for greenbelt development & plantation of saplings
- ❖ Rs 1.5 lakhs for additional rainwater harvesting structures

PART – I

Any other particulars for improving the quality of environment

- ❖ Regular maintenance of all mining machinery and vehicles ensured so that vehicular emissions are within prescribed limits
- ❖ Pollution Under Check certificates verified at the entry point for trucks entering Mine
- ❖ Good maintenance of roads ensured
- ❖ De-silting of garland drains carried out before monsoon to prevent carry over of solid particles
- ❖ So far around 4361 trees planted covering 3.8 ha

Place : Karikkali

Date : 28th Sep, 2017



(Signature of the Authorised Person)

Name : M.U.Subramanayan

Designation : Joint President (Works)