



Chettinad Cement, KW / DVLM / Environmental Statement / 2019-2020 /EHS-073  
30<sup>th</sup> June, 2020

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 2019-20 - **Devarmalai Limestone Mines** of Chettinad Cement Corporation Private Limited, Devarmalai & Melapaguthi Vilalges, kadauvr Taluk, Karur District, Tamilnadu – Extent of Mining Lease Area 166.535 ha – Mining Production Capacity 0.8 million ton per annum.

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With reference to the above, we hereby enclose the “**Environmental Statement**” in the prescribed format (**Form V**) for for the year 2019-2020 under Environment (Protection) Rules, 1986, 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 Villages, Kadavur Taluk, Karur District, Tamilnadu.

Kindly acknowledge the receipt of the same please.

Thanking you,

Yours faithfully,

for CHETTINAD CEMENT CORPORATION PRIVATE LIMITED,

V.KRISHNAN  
SENIOR VICE PRESIDENT [WORKS]



Copy to :

1. Regional Director, CPCB, Bangalore
2. Director, Regional Office, MoEF & CC, Chennai
3. The District Environmental Engineer, TNPCB, Karur

**Chettinad Cement Corporation Private Limited.**

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## FORM - V

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

### Environmental statement for the financial year ending the 31<sup>st</sup> March 2020

#### PART - A

- (i) Name and address of the owner / occupier of the industry operation or process : **V.KRISHNAN,**  
**Senior Vice President [Works]**  
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 Small  
Secondary (SIC Code) : 1035- Mining and Ore beneficiation
- (iii) Production Capacity : 0.80 MTPA ( Million tons per annum)
- (iv) Year of Establishment : 2008
- (v) Date of Last Environment statement submitted : 16<sup>th</sup> July, 2019

#### PART - B

##### Water and Raw Material Consumption

(i) Water Consumption - m<sup>3</sup>/day

Process (Dust Suppression, Green Belt Development)	:	10.54
Cooling	:	NIL
Domestic	:	0.70

Name of the Product	Process water consumption* (m <sup>3</sup> ) per unit (metric ton) of Product output	
	During the previous financial year 2018-2019	During the current financial year 2019-2020
Limestone	0.00431	0.00435

\* 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 2018-2019	During the current financial year 2019-2020
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)

Pollutants	Quantity of Pollutants discharged (m <sup>3</sup> /day)	Concentrations of pollutants in discharges (Mass/volume)	Percentage of variation from prescribed standards with reasons
<b>(a) Water</b>			
Trade Effluent	No Industrial Waste Water generated from the mining operation		
Sewage	Domestic Waste Water treated in septic tank followed by dispersion trench		
<b>(b) Air - Ambient Air Quality</b>			
Pollutants	Quantity of Pollutants discharged (m <sup>3</sup> /day)	Concentrations of pollutants in Ambient Air (µg/m <sup>3</sup> )	Percentage of variation from prescribed standards with reasons
PM 10	Not Applicable as there is no point source of emission in Mine	51.9	Compared to Norm Less by 48%
PM 2.5		21.2	Compared to Norm Less by 65%
SO <sub>2</sub>		10.1	Compared to Norm Less by 87%
NO <sub>2</sub>		19.3	Compared to Norm Less by 76%
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 2018-2019	During the current financial year 2019- 2020
(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 2018-2019	During the current financial year 2019-2020
(a) From Process - Rejection (Top soil /Black cotton soil /Red Soil /Black waste rock)	728021	884302
(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 Rejection (Top soil /Black cotton soil /Red Soil /Black waste rock)	Opening stock ( 01.04.2019 ) : 4.43 Million tons Generation (Apr'19–Mar'20) : 0.88 Million tons Consumption / Disposal (Apr'19–Mar'20) : NIL Closing stock ( 31.03.2020 ) : 5.31 Million tons	Solid, Cao : <30% LSF : <70 Sio <sub>2</sub> : 20 - 40% Fe <sub>2</sub> O <sub>3</sub> : 2-10% Mgo : 1-4% Al <sub>2</sub> O <sub>3</sub> : 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

Achieved the specific water consumption less than 0.01 m<sup>3</sup> 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 5802 trees planted covering 4.3 ha @ 1349 trees/ ha

Place : Karikkali  
Date : 30<sup>th</sup> June, 2020



(Signature of the Authorized Person)  
Name : V.KRISHNAN  
Designation : SENIOR VICE PRESIDENT [WORKS]