IS / ISO 9001 BIS QMS | IS / ISO 14001 BIS EMS | IS 18001 BIS OHSMS | IS / ISO 50001 BIS EnMS

Chettinad cement

Chettinad Cement / Karikkali / DLM/ Environmental Statement/ 2018
16th July, 2018

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 2017-18 - Dholipatti Limestone Mine of Chettinad Cement Corporation Private Limited, located at Dholipatti, Karikkali & Palayam Villages, Vedasandur Taulk, Dindigul District, Tamilnadu – Extent of Mining Lease Area 138.785 ha – Mining Production Capacity 1.4 million tons per annum.

We submit herewith the **"Environmental Statement"** pertaining to Dholipatti Limestone Mine (Extent of Mining Lease Area : 138.785 ha, Mining Production Capacity : 1.40 million tons per annum) located at Dholipati, Palayam & Karikkali Villages, Vedasandur Taulk, Dindigul District, Tamilnadu in the prescribed format **(Form V)** under Environment (Protection) Rules, 1986 for our Limestone Mines for the year 2017-18.

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, Dindigul**

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FORM - V

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

Environmental statement for the financial year ending the 31st March 2018

PART – A

(i) Name and address of the owner / occupier of the industry operation or process. : **M.U.SUBRAMANEYAN,**
Joint President (Works)
Dholipatti Limestone Mines
Chettinad cement corporation Private Ltd.,
Rani Meyyammai Nagar, karikkali (PO),
Vedasandur(TK), Dindigul – District
Pin - 624 703

(ii) Industry category

Primary (STC Code) : Red Large

Secondary (SIC Code) : 1035- Mining and Ore beneficiation

(iii) Production Capacity : 1.40 MTPA (million tons per annum)

(iv) Year of Establishment : 2001

(v) Date of Last Environment statement submitted : 28th Sep, 2017

PART – B

Water and Raw Material Consumption

(i) Water Consumption m^3/day

Process (Dust Suppression, Green Belt Development) : 13.3

Cooling : NIL

Domestic : 0.95

Name of the Product	Process water consumption* (m^3) per unit (metric ton) of Product output	
	During the previous financial year 2016-2017	During the current financial year 2017-2018
Limestone	0.024	0.016

*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 2016-2017	During the current financial year 2017-2018
No raw material is required as the production activity involves only mining			

CHETTINAD CEMENT CORPN. PVT. LTD. KARIKKALI 624703

PART – C

Pollution Discharged to Environment/unit of output
(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	15	Compared to Norm Less by 74 %
PM 10		32	Compared to Norm Less by 68 %
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 Transboundry movement) Rules, 2016]

Hazardous Wastes		Total Quantity Generated	
		During the Previous Financial year 2016-2017	During the Current Financial year 2017- 2018
(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 2016 – 2017	During the current financial year 2017 – 2018
(a)	From Process - Rejection (Top soil /Black cotton soil /Red Soil /Black waste rock)	301644	315219
(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

CHETTINAD CEMENT CORPN. PVT. LTD. KARIKKALI 624703

PART – C

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(Parameter as specified in the consent issued)

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PART – D

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PART – E

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(a)	From Process - Rejection (Top soil /Black cotton soil /Red Soil /Black waste rock)	301644	315219
(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 Mining Operations		
(2)	**Solid Waste** Rejection (Top soil /Black cotton soil /Red Soil /Black waste rock)	Opening stock (01.04.2017) : 14.66 Million tons Generation (Apr'17 –Mar'18) : 0.32 Million tons Consumption (Apr'17-Mar'18) : NIL Closing stock (31.03.2018) : 14.98 Million tons	Solid, Cao : <30% LSF : <70 Sio_2 : 20 - 40% Fe_2O_3 : 2-10% Mgo : 1-4% Al_2O_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 0.027 m^3 to 0.017 m^3 tons per ton of Production

PART – H

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

Investment Proposal for Environmental Production for the year 2018-19

- Rs2.0 lakhs for greenbelt development & plantation of saplings
- Rs 2.0 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 **9979 trees** planted covering **6.56 ha**

Place : Karikkali
Date : 16th July, 2018

CHETTINAD CEMENT CORPN.PVT.LTD. KARIKKALI 624703

Signature of the Authorised Person
Name : M.U.Subramaneyan
Designation : **Joint President (Works)**