Chettinad Cement/ Periyathirukonam Mine /Environment Statement/2020-21 /249

24h Sep 2021

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 2020-21 - Chettinad Cement Corporation Private Limited -Periyathirukonam Limestone Mine, Periyathirukonam Village, Ariyalur District, Tamilnadu

We submit herewith the **"Environmental Statement"** pertaining to our Periyathirukonam Limestone Mine in the prescribed format **(Form V)** under Environment (Protection) Rules, 1986, for the year 2020-21

Kindly acknowledge the receipt.

Thanking you

Yours faithfully,
for **Chettinad Cement Corporation Private Limited**

A. Amalraj
Joint President (Works)

Copy to :

1. Scientist 'E' & In-charge , CPCB, Bangalore
2. Director, Regional Office, MoEF & CC, Chennai
3. JCEE, TNPCB, Trichy
4. DEE, TNPCB, Ariyalur

Chettinad Cement Corporation Private Limited
Ariyalur Trichy Road, Keelapalur Post,
Ariyalur Dist - 621707, Tamilnadu, India.
T + 91 4329 250009
F + 91 4329 250011, 250013

CIN : U93090TN1962PTC004947
Regd.Office : Chettinad Towers,
603, Anna Salai, Chennai - 600 006.
T + 91 44 2829 2727, 42951800 (100 lines)
F + 91 44 2829 1558

E : ariyalur@chettinadcement.com
www.chettinad.com

FORM - V

[See Rule 14 of Environment (Protection) Rules, 1986]

Environmental Statement for the Financial Year ending the 31st March 2021

PART – A

(i)	Name and address of the owner / occupier of the industry operation or process.	:	**A. Amalraj** **Joint President (Works)** Chettinad Cement Corporation Private Limited Periyathirukonam Limestone Mine Periyathirukonam Village, Ariyalur District Tamilnadu Pincode :621707
(ii)	Industry category		
	Primary (STC Code)	:	Red Small
	Secondary (SIC Code)	:	1035- Mining and Ore beneficiation
(iii)	Production Capacity	:	0.2007 million ton per annum (mtpa)
(iv)	Year of Establishment	:	2019
(v)	Date of Last Environment Statement submitted	:	16.09.2020

PART – B

Water and Raw Material Consumption

(i) Water Consumption (m^3/day)

Dust Suppression	:	13.6
Cooling	:	Not Applicable
Greenbelt	:	2.2
Domestic	:	1.0

Name of the Product		*Process Water Consumption (m^3) per unit (metric ton) of Product Output	
		During the Previous Financial Year (2019-2020)	During the Current Financial Year (2020-2021)
(1)	Limestone	0.0130	0.012

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

(ii) Raw Material Consumption

Name of the Raw Material		Name of the Product	Consumption of Raw Material (metric ton) per unit (metric ton) of Output	
			During the Previous Financial Year (2019-2020)	During the Current Financial Year (2020-2021)
(1)	None #	Limestone	--	--

As the production activity involves only mining, no raw material is required

PART – C

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

Pollutant	Quantity of Pollutant Discharged (mass/day) (tons/day)	Concentrations of Pollutants in Discharges (Mass/volume)	Percentage of variation from prescribed standards with reasons
(a) Water			
No generation of any waste water from mining operation			
Domestic waste water is being sent septic tank , followed by dispersion trench			
Pollutant	Quantity of Pollutant Discharged (mass/day)	Concentrations of Pollutants in Ambient Air (Mass/volume) ($\mu g/m^3$)	Percentage of variation from prescribed standards with reasons
(b) Air			
PM_{10}	Not Applicable as there is no point source of emission in Mine	46.0	Compared to Norm Less by 54.0 %
$PM_{2.5}$		18.0	Compared to Norm Less by 70.0 %
SO_2		6.0	Compared to Norm Less by 92.0 %
NO_2		15.0	Compared to Norm Less by 81.0 %
CO		< 114	Compared to Norm Less by 94.0 %

PART – D

HAZARDOUS WASTES

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

Hazardous Waste		Total Quantity Generated in metric tons	
		During the Previous Financial Year (2019-2020)	During the Current Financial Year (2020-2021)
(a)	From Process - None	NIL	NIL
(b)	From Pollution Control Facilities- None	NIL	NIL

PART – E

SOLID WASTES

Solid Waste		Total Quantity Generated (metric tons)	
		During the Previous Financial Year (2019-2020)	During the Current Financial Year (2020-2021)
(a)	From Process- Rejection	185380	140938
(b)	From pollution control facilities	NIL	NIL
(c)	1. Quantity recycled or re-utilized within the unit	NIL	NIL
	2. Sold	NIL	NIL
	3. Disposed	NIL	NIL

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 Waste		Quantity	Characteristics	Disposal Practice Adopted
(1)	Hazardous Waste None	NIL	NA	NA
(2)	Solid Waste Rejections	Opening Stock (as on 01.04.2020) : 1061515 tons Generation (Apr'20-Mar'21) : 140938 Consumption (Apr'20-Mar'21) : NIL Closing Stock (as on 31.03.2021) : 1202453 tons	Sio_2 25- 35 % Cao 15- 20% $Fe_2 o_3$ 3- 5% $Al_2 O_3$ 2- 3%	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

Specific consumption of water 0.012 m^3 per ton of Limestone

PART – H

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

Investment Proposal for Environmental Protection for the year 2021-22

- Plantation of saplings : Rs 0.50 lakh

PART – I

Any other particulars for improving the quality of environment

a. Regular maintenance of all mining machinery and vehicles are being ensured so that vehicular emissions are within prescribed limits

b. Roads are being maintained effectively to avoid dust emission.

c. Routine and regularly water sprinkling is being carried out to suppress dust emission.

d. De-silting of garland drains are being done before monsoon to prevent carryover of solid particles

e. So far around 7650 trees planted covering 3.83 ha.

Place : Ariyalur
Date : 24.09.2021

(Signature of the Authorized Person)
Name : A. Amalraj
Designation : Joint President (Works)