

Chettinad Cement/ Ariyalur/Pudupalayam Mine/Environment Statement/ 2020-21/247

24th 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 - Pudupalayam Limestone Mine I of Chettinad Cement Corporation Private Limited located at Pudupalayam Village, Ariyalur Taluk & District, Tamilnadu – Extent of Mining Lease Area 37 ha – Mining Production Capacity 0.9 million ton per annum

We herewith submit the "Environmental Statement" pertaining to Pudupalayam Limestone Mine I (Extent of Mining Lease Area : 37 ha, Mining Production Capacity 0.9 million ton per annum) located at Pudupalayam Village, Ariyalur Taluk & District, Tamilnadu in the prescribed format (Form V) under Environment (Protection) Rules, 1986 for the year 2020-21.

Kindly acknowledge the receipt.

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

FORM - V

[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
Pudupalayam Limestone Mine I
Pudupalayam Village,
Ariyalur Taluk & District
Tamilnadu
Pincode : 621704
- (ii) Industry category
Primary (STC Code) : Red Large
Secondary (SIC Code) : 1049- Mining and Ore beneficiation
- (iii) Production Capacity : 0.9 million ton per annum (mtpa)
- (iv) Year of Establishment : 2007
- (v) Date of Last Environment Statement submitted : 16.09.2020

PART - B

Water and Raw Material Consumption

(i) Water Consumption (m³/day)

- Dust Suppression : 5.6
- Cooling : Not applicable
- Greenbelt : 9.5
- Domestic : 1.6

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)
Limestone	0.0052	1.816

*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)
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)

Pollutant	Quantity of Pollutant Discharged (mass/day)	Concentration of Pollutant in Discharges (Mass/volume)	Percentage of Variation from prescribed Standard with reasons
(a) Water			
• No waste water discharge from the mine			
Pollutant	Quantity of Pollutant Discharged (mass/day)	Concentrations of Pollutants in Ambient Air (Mass/volume) ($\mu\text{g}/\text{m}^3$)	Percentage of Variation from prescribed Standard with reasons
(b) Air (Ambient Air Quality)			
PM ₁₀	Not Applicable as there is no point source of emission in Mine	47.0	Compared to Norm less by 53.0 %
PM _{2.5}		19.0	Compared to Norm less by 69.0 %
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 94.00 %

PART – D

Hazardous Wastes

[As specified under Hazardous and Other Wastes (Management 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

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

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 (Top Soil)	0.0	0.0
(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	No Hazardous Waste generated from Mine Operations		
(2)	Solid Waste Rejection (Top Soil)	Opening Stock (as on 01.04.20) : 3146 tons Generation (Apr'20-Mar'21) : NIL Consumption (Apr'20-Mar'21) : NIL Closing Stock (as on 31.03.2021) : 3146 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 1.816 m³ 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

- Rs 0.5 lakh for plantation of saplings

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 carryover of solid particles
- So far around 19000 trees planted covering 9.5 ha

Place : Ariyalur

Date : 24.09.2021



(Signature of the Authorized Person)

Name : A. Amalraj

Designation : Joint President (Works)

