

Chettinad Cement/ Arungal Mine /Environment Statement/2021-22 - 258
27th Sep 2022

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

Respected Sir,

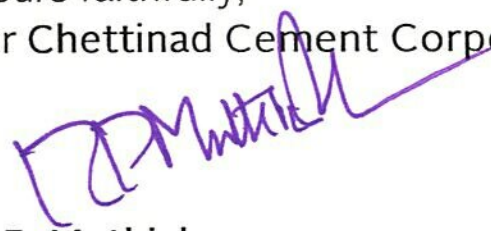
Sub : Submission of Environmental Statement in “Form V” under Environment (Protection) Rules, 1986 for the year 2021-22 - Chettinad Cement Corporation Private Limited - Arungal Limestone Mine, Arungal Village, Ariyalur District, Tamilnadu - Extent of Mining Lease Area 67.73 ha – Mining Production Capacity 0.8 million ton per annum

We submit herewith the “Environmental Statement” pertaining to our Arungal Limestone Mine in the prescribed format (Form V) under Environment (Protection) Rules, 1986, for the year 2021-22

Kindly acknowledge the receipt.

Thanking you

Yours faithfully,
for Chettinad Cement Corporation Private Limited



R.P. Muthiah
Vice 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

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

Environmental Statement for the Financial Year ending the 31st March 2022**PART - A**

- (i) Name and address of the owner / occupier of the industry operation or process. : R.P.Muthiah
Vice President (Works)
Chettinad Cement Corporation Private Limited
Arungal Limestone Mine
Keelapalur Village, Ariyalur District
Tamilnadu
Pincode :621707
- (ii) Industry category
Primary (STC Code) : Red Large
Secondary (SIC Code) : 1035- Mining and Ore beneficiation
- (iii) Production Capacity : 0.8 million ton per annum (mtpa)
- (iv) Year of Establishment : 2020
- (v) Date of Last Environment Statement submitted : 24.09.2021

PART - B**Water and Raw Material Consumption****(i) Water Consumption (m³/day)**

Dust Suppression	:	7.4
Cooling	:	Not Applicable
Greenbelt	:	12.6
Domestic	:	4.8

Name of the Product		*Process Water Consumption (m ³) per unit (metric ton) of Product Output	
		During the Previous Financial Year (2020-2021)	During the Current Financial Year (2021-2022)
(1)	Limestone	0.018	0.024

*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 (2020-2021)	During the Current Financial Year (2021-2022)
(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) ($\mu\text{g}/\text{m}^3$)	Percentage of variation from prescribed standards with reasons
(b) Air			
PM ₁₀	Not Applicable as there is no point source of emission in Mine	49.5	Compared to Norm Less by 50.5 %
PM _{2.5}		19.5	Compared to Norm Less by 67.5 %
SO ₂		10.5	Compared to Norm Less by 87.5 %
NO ₂		15.5	Compared to Norm Less by 80.6 %
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 (2020-2021)	During the Current Financial Year (2021-2022)
(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 (2020-2021)	During the Current Financial Year (2021-2022)
(a)	From Process- Rejection	220298	212193
(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 01.04.2021) : 220298 tons Generation (Apr'21-Mar'22) : 212193 Consumption (Apr'21-Mar'22) : 212193 Closing Stock (as on 31.03.2022) : 220298 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 0.024 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 2022-23

- Plantation of saplings : Rs 3.75 lakh

PART – I

Any other particulars for improving the quality of environment

- Regular maintenance of all mining machinery and vehicles are being ensured so that vehicular emissions are within prescribed limits
- Roads are being maintained effectively to avoid dust emission.
- Routine and regularly water sprinkling is being carried out to suppress dust emission.
- De-silting of garland drains are being done before monsoon to prevent carryover of solid particles
- So far around 7575 trees planted covering 2.03 ha.

Place : Keelapalur

Date : 27.09.2022

(Signature of the Authorized Person)

Name : **R.P.Muthiah**

Designation : Vice President (Works)