Chettinad Cement/Ariyalur/ Unjini Mine/Environment Statement/ 2017/246

28th Sep , 2017

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

Respected Sir,

Sub : **Submission of Environmental Statement in "From V" under Environment (Protection) Rules,1986 for the year 2016- 17- Unijini Limestone Mine I of Chettinad Cement Corporation Private Limited located at Unjini Village, Sendurai Taluk & Ariyalur District, Tamilnadu – Extent of Mining Lease Area 20.965 ha – Mining Production Capacity 0.3 million ton per annum**

We herewith submit the **"Environmental Statement"** pertaining to Unjini Limestone Mine (Extent of Mining Lease Area : 20.965 ha, Mining Production Capacity : 0.3 million ton per annum) located at Unjini Village, Sendurai Taluk & Ariyalur District, Tamilnadu in the prescribed format (Form V) under Environment (Protection) Rules, 1986 for the year 2016-17.

Kindly acknowledge the receipt.

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

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

CIN : U93090TN1962PTC004947
Regd.Office : Rani Seethai Hall Building,
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

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

Environmental Statement for the Financial Year ending the 31st March 2016

PART – A

(i) Name and address of the owner / occupier of the industry operation or process. : **M Sundaramoorthy**
Joint President (Works)
Chettinad Cement Corporation Private Limited
Unjini Limestone Mine
Unjini Village,
Sendurai Taluk & Ariyalur District
Tamilnadu
Pincode : 621714

(ii) Industry category
Primary (STC Code) : Red Large
Secondary (SIC Code) : 1049- Mining and Ore beneficiation

(iii) Production Capacity : 0.3 million ton per annum (mtpa)

(iv) Year of Establishment : 2007

(v) Date of Last Environment Statement submitted : 27th Sep, 2016

PART – B

Water and Raw Material Consumption

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

Dust Suppression : 2.1

Cooling : NIL

Greenbelt : 4.8

Domestic : 1.09

Name of the Product		Process Water Consumption * (m^3) per unit (metric ton) of Product Output	
		During the Previous Financial Year (2015-2016)	During the Current Financial Year (2016-2017)
(1)	Limestone	0.085	0.065

*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 (2015-16)	During the Current Financial Year (2016-17)
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) ($\mu g/m^3$)	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	28.4	Compared to Norm less by 72 %
$PM_{2.5}$		20.2	Compared to Norm less by 66 %
SO_2		9.0	Compared to Norm less by 89 %
NO_2		11.0	Compared to Norm less by 86 %
CO		<114.5	Compared to Norm less by 94 %

PART – D

Hazardous Wastes

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

Hazardous Waste	Total Quantity Generated	
	During the Previous Financial Year 2015-16	During the Current Financial Year 2016- 17
From Process	No Hazardous Waste generated from Mine Operations	
From Pollution Control Facilities	No Hazardous Waste generated from Pollution Control Facilities	

PART – E

Solid Wastes

Solid Waste		Total Quantity (metric tons)	
		During the Previous Financial Year (2015-16)	During the Current Financial Year (2016- 17)
(a)	From Process - Rejection (Top Soil)	102080	NIL
(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 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 01.04.2016) : 223344 tons Generation (Apr'16-Mar'17) : NIL Consumption (Apr'16-Mar'17) : NIL Closing Stock (as on 31.03.2017 : 223344 tons	SiO_2 : 25- 35 % CaO : 15- 20% Fe_2O_3 : 3- 5% Al_2O_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

- Reduction in specific consumption of water from 0.0085 -0.0065 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 Production for the year 2017-18

- Rs 0.25 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 carry over of solid particles
- So far around 10100 trees planted covering 5.0 ha

Place : Ariyalur
Date : 28th Sep, 2017

(Signature of the Authorized Person)
Name : M.Sundaramoorthy
Designation : Joint President (Works)