



Chettinad Cement/Puliyur/Environmental Statement/Captive Power Plant/2017

25th Sep, 2017

Member Secretary

Tamil Nadu Pollution Control Board
76, Anna Salai
Guindy
Chennai – 600 032

Respected Sir,

Sub : Submission of Environmental Statement in “Form V” under Environment (Protection) Rules, 1986 for the year 2016-17 - Chettinad Cement Corporation Private Limited, Captive Power Plant, Puliyur Village, Karur Taluk & District, Tamilnadu

We submit herewith the “**Environmental Statement**” pertaining to our Captive Power Plant in the prescribed format (**Form V**) under Environment (Protection) Rules, 1986 for the year 2016-17.

Kindly acknowledge the receipt of the same.

Thanking you,

Yours faithfully,

for Chettinad Cement Corporation Private Limited


A Amalraj

Senior Vice President (Works)

Copy to :

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

Chettinad Cement Corporation Private Limited.

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FORM - V

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

Environmental Statement for the Financial Year ending the 31st March 2017

PART - A

- (i) Name and address of the owner / occupier of the industry operation or process. : **A.Amalraj**
Senior Vice President (Works)
Chettinad Cement Corporation Private Limited
Captive Power Plant
Puliyur Village
Karur Taluk & District
Tamilnadu
Pincode : 639 114
- (ii) Industry category :
Primary (STC Code) : Red Large
Secondary (SIC Code) : 1048- Thermal Power plant
- (iii) Production Capacity : 15 MW
- (iv) Year of Establishment : 2007
- (v) Date of Last Environment Statement submitted : 26th Sep 2016

PART - B

Water and Raw Material Consumption

(i) Water Consumption (m³/day)

Process	:	59.5
Cooling	:	9.5
Domestic	:	2.0

Name of the Product	Process Water Consumption (m ³) per unit (mw) of Product Output	
	During the Previous Financial Year (2015-16)	During the Current Financial Year (2016-17)
Power	0.186	0.236

(ii) Raw Material Consumption

Name of the Raw Material	Name of the Product	Consumption of Raw Material /Fuel (metric ton) per unit (mw) of Output	
		During the Previous Financial Year (2015-16)	During the Current Financial Year (2016- 17)
Imported Coal	Power	0.489	0.275
Others		0.051	0.234
Total Fuel		0.540	0.510

PART – C

Pollution Discharged to Environment / Unit of output (Parameter as specified in the Consent issued)

Pollutant	Quantity of Pollutant Discharged (kg/day)	Concentrations of Pollutant in Discharges (Mass/volume) mg/litre except for pH	Percentage of Variation from prescribed Standards with reasons
(a) Water indemnification			
pH	Not Applicable	7.67	Less than Norm
TDS	6.88	1056.2	Compared to Standard less by 52 %
TSS	0.21	31.8	Compared to Standard less by 63 %
BOD	0.08	12.1	Compared to Standard less by 58 %
COD	0.35	54.2	Compared to Standard less by 79 %
pollutant	Quantity of Pollutant Discharged (mass/day) (kg/day)	Concentration of Pollutant in Discharges (Mass/volume) - mg/Nm ³	Percentage of Variation from prescribed Standards with reasons
(b) Air			
PM	80.29	23.2	Compared to Standard less by 54 %

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 (2015-16)	During the Current Financial Year (2016- 17)
(a)	From Process Used Oil (category No.5.1)	NIL	0.120
(b)	From Pollution Control Facilities	NIL	NIL

PART – E

Solid Wastes

Solid Waste		Total Quantity in metric tons	
		During the Previous Financial Year (2015-16)	During the Current Financial Year (2016- 17)
(a)	From Process: Bottom Ash (Generated Quantity)	1146	106
(b)	From Pollution Control Facilities Fly Ash (Generated Quantity) STP common to Cement Plant & Captive Power Plant. Waste details reported in the Environmental Statement of Cement Plant	9510	9993

Solid Waste		Total Quantity in metric tons	
		During the Previous Financial Year (2015-16)	During the Current Financial Year (2016- 17)
(c)	Quantity recycled or re-utilized within the unit		
	i) Bottom Ash	1146	106
	ii) Fly Ash	9510	9993
	Sold		
	i) Bottom Ash	NIL	NIL
	ii) Fly Ash	NIL	NIL
	Disposed		
	i) Bottom Ash	NIL	NIL
	ii) Fly Ash	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
A. Hazardous Waste				
1	Used Oil (category No.5.1)	Opening stock (as on 01.04.2016) : Nil Generation (Apr'16 –Mar'17) : 0.120 tons Consumption (Apr'16-Mar'17) : 0.120 tons Closing stock (as on 31.03.2017) : NIL	Liquid GCV : 6000- 8000 kcal/Kg Cd+Cr +Ni : <5ppm	0.120 tons used for lubrication purpose in conveyor & other motors, within the Plant
B. Solid Waste				
1	Bottom Ash	Opening stock (as on 01.04.2016) : NIL Generation (Apr'16 –Mar'17) : 106 tons Consumption (Apr'16-Mar'17) : 106 tons Closing stock (as on 31.03.2016) : NIL	Solid SiO ₂ : 70-80%, Fe ₂ O ₃ : 2-5 % LOI : 4 -6 % Al ₂ O ₃ : 18-30%	100% reused within the premises as replacement of boiler bed materials and as sand for masonry works and road laying works

Name of the Waste		Quantity	Characteristics	Disposal Practice Adopted
2	Fly Ash	Opening stock (01.04.2016) : NIL Generation (Apr'16 –Mar'17) : 9993 tons Consumption (Apr'16-Mar'17) : 9993 tons Closing stock (as on 31.03.2016) : NIL	Solid SiO ₂ : 25-35%, Fe ₂ O ₃ : 2-3% LOI : 10-15% K ₂ O+Na ₂ O : <1%	100 % of Fly ash is used in our Cement Plant located within the same premises for Cement production.

PART – G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production

- Specific raw water consumption during 2016 -17 was 0.28 m³/mw compared to the prescribed Standard of 3.5 m³/mw
- Reduction in specific consumption of coal from 0.540 to 0.510 tons per mw

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 8.5 lakhs for Air Pollution Control Measures
- Rs 1.5 lakhs for Water Pollution Control Measures

PART – I

Any other particulars for improving the quality of environment

- Proper maintenance of Pollution Control Equipment including ETP and STP is ensured for effective and efficient operation of the same. Maintenance Cost of Pollution Control Equipment during 2016-17 was Rs. 2.0 Lakhs
- Environmental Monitoring is ensured to assess the effectiveness of Pollution Control Measures and initiate required action, if any required. Environmental Monitoring Cost during 2016-17 was Rs 6.5 Lakhs.
- Quality Management System (ISO 9001), Environmental Management System (ISO14001), Occupational Health & Safety Management System (IS 18001) and Energy Management System (ISO 50001) are in place to ensure that all operations are carried out in compliance with international standards.

Place :Puliyur

Date : 25th Sep, 2017

A. Amalraj

(Signature of the Authorized Person)

Name : A.Amalraj.

Designation : Senior Vice President (Works)

