IS / ISO 9001 BIS QMS | IS / ISO 14001 BIS EMS | IS 18001 BIS OHSMS | IS / ISO 50001 BIS EnMS

Chettinad cement

Chettinad Cement/Puliyur/Environmental Statement/Captive Power Plant/2021/75
23th Sep, 2021

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 2020-21 - 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 of 2020-21.

Kindly acknowledge the receipt of the same.

Thanking you,

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

R.P.Muthiah
Asst Vice President (Works)

Encl: Form V

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.
Kumararajah Muthiah Nagar
Puliyur Cement Factory
Karur Dist 639 114,
Tamilnadu, India.
T +91 4324 251354, 251345
E puliyur@chettinadcement.com
CIN : U93090TN1962PTC004947
GST : 33AAACC3130A1ZQ

Head Office :
Chettinad Towers,4th Floor,
603, Anna Salai,
Chennai 600 006,
T +91 44 2829 2727, 42951800
F +94 44 28291558, 43090202
E info@chettinadcement.com
www.chettinadcement.com

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. : **R.P.Muthiah**
Asst 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 : 19th Sep 2020

PART – B

Water and Raw Material Consumption

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

Process	:	51.1
Cooling	:	18.5
Domestic	:	2.0

Name of the Product	Process Water Consumption (m^3) per unit (mw) of Product Output	
	During the Current Financial Year (2019-20)	During the Current Financial Year (2020-21)
Power	0.207	0.216

(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 Current Financial Year (2019- 20)	During the Current Financial Year (2020-21)
Imported Coal	Power	0.494	0.564
Others		0	0
Lignite		0.057	0
Total Fuel		0.551	0.564

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	7.63	Less than Norm
TDS	4.43	1059	Compared to Standard less by 49.6%
TSS	0.03	7.2	Compared to Standard less by 91.4 %
BOD	0.02	5.6	Compared to Standard less by 79.8 %
COD	0.12	27.6	Compared to Standard less by 89.0 %
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	-	27.09	Compared to Standard less by 46 %
SO2	-	257.83	Compared to Standard less by 57 %
NOx	-	221	Compared to Standard less by 51 %

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 Current Financial Year (2019- 20)	During the Current Financial Year (2020- 21)
(a)	NIL	NIL	NIL
(b)	NIL	NIL	NIL

PART – E
Solid Wastes

Solid Waste		Total Quantity in metric tons	
		During the Current Financial Year (2019- 20)	During the Current Financial Year (2020- 21)
(a)	From Process: Bottom Ash (Generated Quantity)	310	250
(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	2951	3081
(c)	Quantity recycled or re-utilized within the unit i) Bottom Ash ii) Fly Ash	 310 2951	 250 3081
	Sold i) Bottom Ash ii) Fly Ash	 NIL NIL	 NIL NIL
	Disposed i) Bottom Ash ii) Fly Ash	 NIL NIL	 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 01.04.2020) : NIL Generation (Apr'20 –Mar'21) : NIL Consumption (Apr'20-Mar'21) : NIL Closing stock (as on 31.03.2021) : NIL	Liquid GCV : 6000- 8000 kcal/Kg Cd+Cr +Ni : <5ppm	Recycled in PCB authorized vendor
B. Solid Waste				
1	Bottom Ash	Opening stock (as on 01.04.2020) : NIL Generation (Apr'20 –Mar'21) : 250 tons Consumption (Apr'19-Mar'20) : 250 tons Closing stock (as on 31.03.2021) : NIL	Solid Sio_2 : 70-80%, Fe_2O_3 : 2-5 % LOI : 4 -6 % Al_2O_3 : 18-30%	100% reused within the premises as replacement of boiler bed materials and as sand for masonry works and road laying works
2	Fly Ash	Opening stock (01.04.2020) : NIL Generation (Apr'20 –Mar'21) : 3081 tons Consumption (Apr'20-Mar'21) : 3081 tons Closing stock (as on 31.03.2021) : NIL	Solid Sio_2 : 25-35%, Fe_2O_3 : 2-3% LOI : 10-15% K_2O+Na_2O : <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 2020 -21 was 0.216 m3/mw compared to the prescribed Standard of 3.5 m3/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 2021-22

- Rs 5.0 lakhs for Air Pollution Control Measures
- Rs 2.0 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 2020-21 was Rs. 5.0 Lakhs
- Environmental Monitoring is ensured to assess the effectiveness of Pollution Control Measures and initiate required action, if any required. Environmental Monitoring Cost during 2020-21 was Rs 8.0 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.

CHETTINAD CEMENT CORPORATION PVT. LTD. PULIYUR, KARUR Tk., 639 114.

Place: Puliyur
Date: 23rd Sep, 2021

(Signature of the Authorized Person)
Name : **R.P.Muthiah**
Designation : **Asst Vice President (Works)**