



Chettinad Cement/Puliyur/Environmental Statement/Captive Power Plant/2022/322
23th Sep, 2022

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 2021-22 - 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 2021-22.

Kindly acknowledge the receipt of the same.

Thanking you,

Yours faithfully,
for Chettinad Cement Corporation Private Limited


G.Harikishore
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

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FORM - V

(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. : **G.Harikishore**
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 : 23.09.2021

PART - B

Water and Raw Material Consumption

(i) Water Consumption (m³/day)

Process	:	49.0
Cooling	:	20.8
Domestic	:	2.0

Name of the Product	Process Water Consumption (m ³) per unit (mw) of Product Output	
	During the Current Financial Year (2020-21)	During the Current Financial Year (2021-22)
Power	0.216	0.250

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(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 (2020-21)	During the Current Financial Year (2021-22)
Import Coal	Power	0.564	0.431
Others		0	0
Lignite		0	0.183
Total Fuel		0.564	0.614

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	7.81	Less than Norm
TDS	4.43	737	Compared to Standard less by 51.5%
TSS	0.01	5.0	Compared to Standard less by 86.1 %
BOD	0.01	4.5	Compared to Standard less by 72.5 %
COD	0.08	28	Compared to Standard less by 86.2 %
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	-	29.30	Compared to Standard less by 41 %
SO ₂	-	386	Compared to Standard less by 36 %
NO _x	-	248	Compared to Standard less by 45 %

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**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 (2021- 21)	During the Current Financial Year (2021- 22)
(a) NIL	NIL	NIL
(b) NIL	NIL	NIL

**PART – E
Solid Wastes**

Solid Waste	Total Quantity in metric tons	
	During the Current Financial Year (2020- 21)	During the Current Financial Year (2021- 22)
(a) From Process: Bottom Ash (Generated Quantity)	250	314
(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	3081	2855
(c) Quantity recycled or re-utilized within the unit		
i) Bottom Ash	250	314
ii) Fly Ash	3081	2855
Sold		
i) Bottom Ash	NIL	NIL
ii) Fly Ash	NIL	NIL
Disposed		
i) Bottom Ash	NIL	NIL
ii) Fly Ash	NIL	NIL

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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 01.04.2021) : NIL Generation (Apr'21 –Mar'22) : NIL Consumption (Apr'21-Mar'22) : NIL Closing stock (as on 31.03.2022) : 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 01.04.2021) : NIL Generation (Apr'21 –Mar'22) : 314 tons Consumption (Apr'21-Mar'22) : 314 tons Closing stock (as on 31.03.2022) : 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
2 Fly Ash	Opening stock (01.04.2021) : NIL Generation (Apr'21 –Mar'22) : 2855 tons Consumption (Apr'21-Mar'22) : 2855 tons Closing stock (as on 31.03.2022) : 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.

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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 2021 -22 was 0.250 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 2022-23

- 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 2021-22 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 2021-22 was Rs 5.0 Lakhs.
- Quality Management System (ISO 9001), Environmental Management System (ISO14001), Occupational Health & Safety Management System (ISO 45001) and Energy Management System (ISO 50001) are in place to ensure that all operations are carried out in compliance with international standards.

Place: Puliur

Date: 23.09.2022



(Signature of the Authorized Person)

Name : G.Harikishore

Designation : Asst Vice President (Works)



