



Chettinad Cement/Puliyur/Environmental Statement/Cement Plant/2021/23
23rd 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 2021-21 - Chettinad Cement Corporation Pvt Limited, Cement Plant, Puliyur Village, Karur District, Tamilnadu

We submit herewith the "Environmental Statement" pertaining to our Cement 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

(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. : **G.Harikishore**
Asst. Vice President (Works)
Chettinad Cement Corporation Private Limited
Cement Plant
Puliyur Village
Karur District
Tamilnadu
Pincode : - 639114
- (ii) Industry category :
Primary (STC Code) : Red Large
Secondary (SIC Code) : 1026- Cement
- (iii) Production Capacity : 1.7 Million tons per annum (MTPA)
- (iv) Year of Establishment : 1969
- (v) Date of Last Environment Statement submitted : 23.09.2021

PART - B

Water and Raw Material Consumption

(i) Water Consumption (m³/day)

Process & Cooling : 385.3

Domestic : 320.5

** Waste water from Captive Power Plant and STP reused

Name of the Product	Total Raw water consumption (m ³) per unit (metric ton) of Product Output	
	During the Current Financial Year (2020-2021)	During the Current Financial Year (2021-2022)
Cement	0.272	0.238

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(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 Current Financial Year (2020- 2021)	During the Current Financial Year (2021- 2022)
1. Lime stone	Cement	0.994	0.884
2. Laterite		0.046	0.042
3. Iron Ore		0.027	0.023
4. Imported Coal		0.041	0.053
Indian Pet coke		0.039	0.026
AFR		0.003	0.004
Total Fuel		0.083	0.083
5. Gypsum		0.063	0.043
6. Fly Ash		0.262	0.270
7. Slag		0.230	0.216

Alternate Fuels & Raw Materials (AFR)

Hazardous Waste	Name of the Product	Consumption of AFR (metric ton) per unit (metric ton) of Output	
		During the Current Financial Year (2020- 21)	During the Current Financial Year (2021- 22)
1. Chemical Sludge from Waste Water Treatment (Textile industry) (Category No 35.3)	Cement	0.0030	0.0045

By [Signature]

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 Pollutants in Discharges (Mass/volume) mg/litre except for pH	Percentage of variation from prescribed standards with reasons
(a) Water			
pH	Not Applicable	7.09	Less than Norm
TSS	2.22	9.3 mg/lit	Compared to Norm Less by 68.9 %
BOD	1.6	6.7 mg/lit	Compared to Norm Less by 66.7%

Pollutant	Quantity of Pollutant Discharged (kg/day)	Concentrations of Pollutants in Discharges (Mass/volume) mg/Nm ³	Percentage of variation from prescribed standards with reasons
(b) Air			
PM	150	18.88	Compared to Norm Less by 37%
SO ₂	-	20.62	Compared to Norm Less by 79%
NOx	-	401.81	Compared to Norm Less by 50%

Compared to allowed Pollution Load of 0.125 kg of PM per ton of Clinker, actual load was 0.053 kg per of PM per ton of Clinker, which was less by 58 %

PART – D

Hazardous Wastes

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

Hazardous Waste		Total Quantity Generated in metric ton	
		During the Current Financial Year (2020- 2021)	During the Current Financial Year (2021- 2022)
(a)	From Process Used Oil (Category No 5.1)	Nil	NIL
(b)	From Pollution Control Facilities	NIL	NIL

by [Signature]

PART – E

Solid Wastes

Solid Waste		Total Quantity in metric ton	
		During the Current Financial Year (2020- 2021)	During the Current Financial Year (2021- 2022)
(a)	From Process: i) STP sludge	1.5	0.8
(b)	From Pollution Control Facilities-	NIL	Nil
(c)	Quantity recycled or re-utilized within the unit	1.5	0.8
(d)	Sold	NIL	Nil
(e)	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 Wastes	Quantity	Characteristics	Disposal Practice Adopted
(1) Hazardous Waste Used / Spent Oil (Category No.5.1)	Opening Stock (01.04.2022) : Nil Generation (Apr'21-Mar'22) : Nil Consumption (Apr'21-Mar'22) : Nil Closing Stock (31.03.2022) : Nil	Waster Oil containing 6000-8000 kcal/Kg of GCV and Less than 5 ppm of Cd+Cr+Ni	If generation of Spent oil sale recycled PCB authorizer
(2) Solid Waste STP Sludge	Opening Stock (01.04.2021) : NIL Generation (Apr'21-Mar'22) : 0.8 tons Consumption in Cement Plant (Apr'21-Mar'22) : 0.8 tons Closing Stock (31.03.2022) : NIL	Organic matter containing, N: 5% , P: 0.6% & K:0.4%.	1.5 tons of dried sludge used as manure for Greenbelt Development.

Very Clean

PART – G

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

Reduction in specific Total Raw water consumption from 0.272 m³ to 0.238 m³ per ton of Cement

PART – H

Additional measures / investment proposal for environmental protection including abatement of pollution, prevention of pollution Investment Proposal for Environmental Production

Investment Proposal for environmental protection for the year 2022-23

- a. Air Pollution Control Measures - Rs 35.0 lakhs
- Replacement of Bag Filters
 - ESP Maintenance
- b. Other Measures - Rs 10.0 lakhs
- Plantation of saplings

PART – I

Any other particulars for improving the quality of environment

- a. Pollution Control Equipment/ETP/STP are maintained well to ensure effective and efficient operation (maintenance expenses Rs 35.0 lakhs for the year 2021-22)
- b. Environmental parameters are regularly monitored to assess the effectiveness of Pollution Control Measures and initiate action , if any required (monitoring expenses Rs 10.0 lakhs for the year 2021-22)
- c. So far around 24584 trees planted covering 11.6 hectares. We have planned 3000 saplings for the year of 2022-23
- d. 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



G. Harikishore
23/9/22
(Signature of the Authorized Person)

Name : G.Harikishore

Designation : Asst Vice President (Works)

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