

Chettinad Cement/Puliyur/Environmental Statement/Cement Plant/2024
24th Sep, 2024

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

Respected Sir,

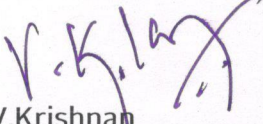
Sub : Submission of Environmental Statement in “Form V” under Environment (Protection) Rules, 1986 for the year 2023-24 - Chettinad Cement Corporation Pvt Limited, Cement Plant, Puliyur Village, Karur District, Tamilnadu

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 2023-24

Kindly acknowledge the receipt of the same.

Thanking you,

Yours faithfully,
for Chettinad Cement Corporation Private Limited


V. Krishnan
Joint President (Works)

Encl: Form V
Copy to :

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

Chettinad Cement Corporation Private Limited.

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Karur Dist - 639 114,
Tamilnadu, India.
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F + 91 4324 250584
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CIN : U93090TN1962PLC004947
GST : 33AAACC3130A1ZQ

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T +91 44 28292727, 42951800
F +91 44 28291558

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Egmore, Chennai - 600 008
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T +91 44 43691000

FORM - V

(See rule 14 of Environment (Protection) Rules, 1986)

Environmental Statement for the Financial Year ending the 31st March 2024

PART – A

- (i) Name and address of the owner / occupier of the industry operation or process. : **V.Krishnan**
Joint 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 : 20.09.2023

PART – B

Water and Raw Material Consumption

(i) Water Consumption (m³/day)

Process & Cooling : 402.0

Domestic : 320

‘*’ 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 ((2022-2023)	During the Current Financial Year (2023-2024)
Cement	0.249	0.384

(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 (2022- 2023)	During the Current Financial Year (2023- 2024)
1.	Lime stone	Cement	0.990	0.926
2.	Laterite		0.043	0.040
3.	Iron Ore		0.023	0.009
4.	Imported Coal		0.069	0.073
	Indian Pet coke		0.019	0.000
	Imported Pet coke		0.004	0.004
	AFR		0.005	0.018
	Total Fuel		0.097	0.095
5.	Gypsum		0.033	0.036
6.	Fly Ash		0.245	0.144
7.	Slag		0.198	0.059

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 (2022- 23)	During the Current Financial Year (2023- 24)
1	Chemical Sludge from Waste Water Treatment (Textile industry) (Category No 35.3)	Cement	0.00053	*0.000

*Due to quality issue we have not consumed Chemical sludge from waste water industry.

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	7.16	Less than Norm
TSS	1.85	7.8 mg/lit	Compared to Norm Less by 74.0 %
BOD	1.95	8.2 mg/lit	Compared to Norm Less by 59.1%

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	135	18.71	Compared to Norm Less by 38%
SO ₂	-	9.10	Compared to Norm Less by 91%
NOx	-	328.69	Compared to Norm Less by 59%

Compared to allowed Pollution Load of 0.125 kg of PM per ton of Clinker, actual load was 0.087 kg per of PM per ton of Clinker, which was less by 30 %

PART – D

Hazardous Wastes

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

Hazardous Waste		Total Quantity Generated in metric ton	
		During the Current Financial Year (2022- 2023)	During the Current Financial Year (2023- 2024)
(a)	From Process Used Oil (Category No 5.1)	Nil	NIL
(b)	From Pollution Control Facilities	NIL	NIL

PART – E

Solid Wastes

Solid Waste		Total Quantity in metric ton	
		During the Current Financial Year (2022- 2023)	During the Current Financial Year (2023- 2024)
(a)	From Process: i) STP sludge	0.9	1.85
(b)	From Pollution Control Facilities-	NIL	Nil
(c)	Quantity recycled or re-utilized within the unit	0.9	1.85
(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 (01.04.2023) : Nil Generation (Apr'23-Mar'24) : Nil Consumption (Apr'23-Mar'24) : Nil Closing Stock (31.03.2024) : 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 (01.04.2023) : NIL Generation (Apr'23-Mar'24) : 1.85 tons Consumption in Cement Plant (Apr'23-Mar'24) : 1.85 tons Closing Stock (31.03.2024) : NIL	Organic matter containing, N: 5% , P: 0.6% & K: 0.4%.	1.85 tons of dried sludge used as manure for Greenbelt Development

PART – G

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

Increase the AFR consumption from 0.004 to 0.005 per unit (metric 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 2024-25

a. Air Pollution Control Measures - Rs 30.0 lakhs

- Replacement of Bag Filters
- ESP Maintenance

b. Other Measures - Rs 5.0 lakhs

- Plantation of saplings

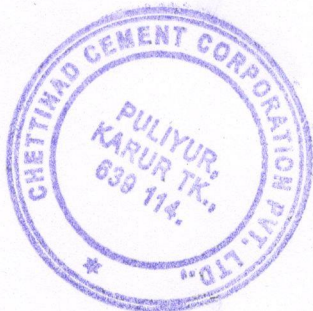
PART – I

Any other particulars for improving the quality of environment

- Pollution Control Equipment/ETP/STP are maintained well to ensure effective and efficient operation (maintenance expenses Rs 15.0 lakhs for the year 2023-24)
- Environmental parameters are regularly monitored to assess the effectiveness of Pollution Control Measures and initiate action, if any required (monitoring expenses Rs 15.0 lakhs for the year 2023-24)
- So far around 24584 trees planted covering 11.6 hectares. We have planned 1000 saplings for the year of 2024-25
- 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 : 24.09.2024



V. Krishnan

(Signature of the Authorized Person)

Name : V. Krishnan

Designation : Joint President (Works)

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