



Chettinad Cement/Ariyalur/Environmental Statement/CPP /2024-25/160

12 Sep. 2025

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

Dear Sir,

Sub: Submission of Environmental Statement in “Form V” under Environment (Protection) Rules, 1986 for the year 2024 - 25 - Chettinad Cement Corporation Private Limited, Captive Power Plant, Keelapalur, Ariyalur District, Tamilnadu

We herewith submit the “Environmental Statement” pertaining to our Chettinad Cement Corporation Private Limited - Captive Power Plant, in the prescribed format (Form V) under Environment (Protection) Rules, 1986 for the year 2024 - 25

Kindly acknowledge the receipt of the same.

Thanking you,

Yours faithfully,
for Chettinad Cement Corporation Private Limited

R.P. Muthiah
Sr. Vice President [Works]

Copy to :

1. Regional Director CPCB, Chennai
2. Dy. Director General of Forest, IRO, MoEF & CC, Chennai
3. JCEE, TNPCB, Trichy
4. DEE, TNPCB, Ariyalur

Chettinad Cement Corporation Private Limited.

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FORM - V

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

Environmental Statement for the Financial Year ending the 31st March 2025

PART - A

	R. P. Muthiah, Sr. Vice President [Works]
(i) Name and address of the owner / occupier of the industry operation or process.	Chettinad Cement Corporation Private Limited Cement Plant, Keelapalur Ariyalur District. Tamilnadu Pincode: 621 707
Industry category	
(ii) Primary (STC Code)	: Red Large
Secondary (SIC Code)	: 1048 - Thermal Power Plant
(iii) Production Capacity	: 45 MW [3 X 15 MW]
(iv) Year of Establishment	: 2009
(v) Date of Last Environment Statement submitted	: 25.09.2024

PART - B

Water and Raw Material Consumption

(i) Water Consumption (m³/day)

Process	:	66
Cooling	:	32
Domestic	:	4
Name of the Product	Process water consumption (m ³) per unit (metric ton) of Product Output	
	During the Previous Financial Year (2023-24)	During the Current Financial Year (2024-25)
Cement	0.162	0.171

(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 Previous Financial Year (2023-24)	During the Current Financial Year (2024-25)
(1)	Fuel -Total	0.586	0.597
	Split up:		
	Imported coal	0.580	0.597
	Indian Coal	0.000	0.000
	Others [Lignite]	0.044	0.000
	AFR Fuel	0.006	0.000

(iii) Alternate Fuels & Raw Materials:

Alternate Fuel	Total Quantity Co processed in MT	
	During the Previous Financial Year (2023-24)	During the Current Financial Year (2024-25)
(a) Rice Husk	898	0

PART – C

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

Pollutant	Quantity of Pollutant Discharged (mass/day) (kg/day)	Concentrations of Pollutants in Discharges (Mass/volume) (mg/litre except pH)	Percentage of variation from prescribed standards with reasons	
(a) Water				
pH	Not Applicable	8.1	Less than Norm	
TDS	23.24	1170.3	Compared to Norm Less by %	44.3
TSS	0.25	12.8	Compared to Norm Less by %	87.2
BOD	0.15	7.3	Compared to Norm Less by %	74.6
COD	0.91	45.7	Compared to Norm Less by %	81.7
Chloride	7.24	364.5	Compared to Norm Less by %	63.5
Sulphate	4.56	229.5	Compared to Norm Less by %	77.1

Pollutant	Quantity of Pollutant Discharged (mass/day) (kg/day)	Concentrations of Pollutants in Ambient Air (Mass/volume) mg/Nm3	Percentage of variation from prescribed standards with reasons	
(b) Air				
PM	390	23	Compared to Norm Less by %	54.3%
SO ₂	4747	278	Compared to Norm Less by %	53.6%
NOx	2724	160	Compared to Norm Less by %	64.5%

PART – D

Hazardous Wastes

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

Hazardous Waste	Total Quantity Generated in MT	
	During the Previous Financial Year (2023-24)	During the Current Financial Year (2024-25)
(a) Used Oil (Category No 5.1) From Process	0.0	0.0
(b) From Pollution Control Facilities	NIL	NIL

PART – E

Solid Wastes

Solid Waste	Total Quantity (Kg)	
	During the Previous Financial Year (2023-24)	During the Current Financial Year (2024-25)
(a) From Process:	NIL	NIL
From Pollution Control Facilities-		
(b) 1. STP Sludge	NIL	NIL
2. Fly Ash	9621.32	6289.88
3. Bottom Ash	192.49	125.67
1. Quantity recycled or reutilised within the		
a. STP Sludge	NIL	NIL
b. Fly Ash	9621.32	6289.88
c. Bottom Ash	192.49	125.67
2. Sold		
(c) a. STP Sludge	NIL	NIL
b. Fly Ash	NIL	NIL
c. Bottom Ash	NIL	NIL
3. Disposed		
a. STP Sludge	NIL	NIL
b. Fly Ash	NIL	NIL
c. Bottom 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

Name of the Wastes		Quantity in Tons	Characteristics	Disposal Practice Adopted
(1)	Hazardous Waste Used / Spent Oil (Category No.5.1)	Opening Stock (01.04.2024) : Nil Generation (Apr'24-Mar'25) : Nil Disposal/ Consumption (Apr'24-Mar'25) : Nil Closing Stock (31.03.2025) : Nil	Waster Oil containing 6000-8000 kcal/Kg of GCV and Less than 5ppm of Cd+Cr+Ni	NIL
(2)	Solid Waste Fly Ash	Opening Stock (01.04.2024) : Nil Generation (Apr'24-Mar'25) : 6289.88 Disposal/ Consumption (Apr'24-Mar'25) : 6289.88 Closing Stock (31.03.2025) : Nil	Solid Containing SiO ₂ : 70-80%, Fe ₂ O ₃ : 2-5 % LOI : 4 -6 % Al ₂ O ₃ : 18-30%	100 % of Fly ash is used in our Cement plant located within the same premises for cement production
(3)	Solid Waste Bottom Ash	Opening Stock (01.04.2024) : Nil Generation (Apr'24-Mar'25) : 125.67 Disposal/ Consumption (Apr'24-Mar'25) : 125.67 Closing Stock (31.03.2025) : Nil	Solid containing SiO ₂ : 25-35%, Fe ₂ O ₃ : 2-3% LOI : 10-15% K ₂ O+Na ₂ O: <1%	100% reused within the premises (replacement of Boiler bed materials, used as sand for masonry works)

PART – G

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

- * Specific water consumption 0.171 tons per mw of Power Generation.
- * 6289.88 Ton of Captive power plant Fly ash reused in the cement plant for PPC manufacturing
- * 125.67 Ton of Bottom Ash resued as a replacement of Boiler bed materials, used as sand for masonry works

PART – H

Additional measures / investment proposal for environmental protection including abatement of pollution, prevention of pollution

Investment Proposal for Environmental Protection for the year 2025-26

- * Rs. 25 Lakhs for Air Pollution Control Measures which will include replacement of Bag Filters & ESP Maintenance etc.,
- * Rs 1.0 Lakhs for Water Pollution Control Measures which include replacement of equipments, spares and maintenance etc
- * Rs. 3.5 Lakhs for AMC for Environment related equipments for Air and Water
- * Rs. 4.0 Lakhs for Environment Monitoring, Analysis and Calibration charges etc

PART – I

Any other particulars for improving the quality of environment

- * Rs. 33.8 Lakhs for Air Pollution Control Measures which will include replacement of Bag Filters & ESP Maintenance etc.,
- * Rs 4.250 Lakhs for Water Pollution Control Measures which include replacement of equipments, spares and maintenance etc
- * Rs. 3.3 Lakhs for AMC for Environment related equipments for Air and Water
- * Rs. 3.9 Lakhs for Environment Monitoring, Analysis and Calibration charges etc
- * Quality Management System (ISO 9001), Environmental Management System (ISO 14001), 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.

* We celebrated International Plastic Bag Free Day-2024 on 03.07.2024 in our plant premises and created awareness among our employees, and during this event cloth bags were distributed and insisted to avoid single use ban plastic items.

* We created awareness among our employees by giving "Life Style for Environment" on the topic of "Ban Plastic" in the plant area on 04.07.2024. Life for Environment mission pledge has been taken by our Employees on every month during Oper House Safety meeting.

* We celebrated World Environment day-2024 on 05.06.2024 theme "Land Restoration, Desertification and Drought Resilience" by planting saplings and created awareness among employees, colony residents.

* We celebrated International Day of Clean Air for Blue Skies - 2024 on 09.09.2024 theme "Invest in #CleanAirNow" by planting saplings and created awareness among employees.

* We Celebrated World Ozone Day-2024 on 16.09.2024, theme "Montreal Protocol: Advancing Climate Action", by planting saplings and created awareness among employees. Also, we created awareness to the Varanavasi Govt High school students on the top of "Ban Plastic" and plantation of saplings.

* Deepavali Awareness on "Celebration of noiseless and smoke free Deepavali - 2024" given to our Colony residents and Employees on 29.10.2024 as per the "Compliance of Hon'ble Supreme Court Order dt. 23.10.208 in W.P.(C) No. 728 of 2015"

* National Energy Conservation day 2024 celebrated on 20.02.2025 by planting saplings in the plant premises and created awareness among the employees.

* We celebrated World Water Day-2025 with a theme of "Glaciers Preservation on 22.03.2025 and crated awareness among employees

* 2 nos. of Kurunkadugal Développement completed 1) 1000 nos. of Saplings in 6.0 Acres in our Karuppur Keelapalur LS Mines and 2) with 1000 nos. of saplings in 6.0 Acres in our Arungal LS mines has been maintained.

* CSR / CER Activities: 1. On 03.07.2024, Manjappai Vending Machine handedover to Govt Hospital Jayankondam . 2. On 12.08.2024, 10 nos of computers to Govt Polytechnic, Keelalpalur Ariyalur Dist. 3. On 13.08.2024, Rs. 3.0 Lakh handed over to DFO, Ariyalur for Karaivetti Birds Sanctury development. 4. On 07.10.2024, Rs. 2.0 Lakh handed over to DFO, Ariyalur for Karaivetti Birds Sanctury development. 5. Desilting of Various water body channels in Thirumanur Block, Ariyalur Dits. 6. Drinking RO water purifier 5 nos. given to Sendurai Taluk Govt Middle School, Nakkambadi, Govt Primary School, Ninniyur, Got, Primary School, Unjini Govt Primay School and Govt School in Athikudikadu.

Place : Keelapalur
Date 12.09.2025

[Signature of the Authorized Person]

Name : R. P. Muthiah

Designation : Sr. Vice President [Works]

