



Chettinad Cement, KW/Cement Plant /Environmental Statement / 2024-25/EHS-225
29th Sep, 2025

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

Respected Sir,

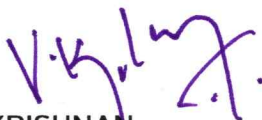
Sub : Submission of “ Environmental Statement - Form V ” for the year 2024-25 under Environment (Protection) Rules,1986 for our Cement Plant – Reg.

We hereby enclose the "Environmental Statement - Form V" for the year 2024–25 In accordance with the Environment (Protection) Rules, 1986 for our 4.5 MTPA cement production capacity of Cement Plant, which is situated at Karikkali and Dholipatti villages, Guziliamparai Taluk of Dindigul District, Tamil Nadu – 624703.

Kindly acknowledge for receipt of the same please

Thanking you,

Yours faithfully,
for CHETTINAD CEMENT CORPORATION PRIVATE LIMITED,


V.KRISHNAN
JOINT PRESIDENT [WORKS]

Copy to :

1. The Regional Director, CPCB, Chennai
2. The Director, Regional Office, MoEF & CC, Chennai
3. The Joint Chief Environmental Engineer (M), TNPCB, Madurai
4. The District Environmental Engineer, TNPCB, Dindigul



Chettinad Cement Corporation Private Limited.

Rani Meyyammai Nagar, Karikkali Village, Guziliamparai Taluk
Dindigul District, Tamilnadu, India, Pin -- 624 703

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FORM - V

(Rule 14 of Environment (Protection) Rules, 1986)

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

PART - A

- (i) Name and address of the owner / occupier of the industry operation or process : **V.KRISHNAN,**
Joint President [Works]
Cement Plant
Chettinad Cement Corporation Pvt Ltd
Rani Meyyammai Nagar, karikkali Post,
Guziliamparai Taluk, Dindigul District
Tamilnadu, Pin code -624703
- (ii) Industry category
Primary (STC Code) : Red Large
Secondary (SIC Code) : 1026- Cement
- (iii) Production Capacity : 4.5 million tons of Cement per annum
- (iv) Year of Establishment : 2001
- (v) Date of Last Environment statement submitted : 28th Sep, 2024

PART - B

Water and Raw Material Consumption

- (i) Water Consumption - m³/day
- Process : 103
Cooling : 849
Domestic : 84

Name of the Product	Process water consumption (m ³) per unit (metric ton) of Product (Cement) output	
	During the Previous Financial year 2023 - 2024	During the Current Financial year 2024 - 2025
Cement	0.010	0.010



(ii) Raw Material / Fuel Consumption:

Name of the Raw Materials		Name of the Products	Consumption of Raw Material / Fuel (metric ton) per unit (metric ton) of Product (cement) output	
			During the Previous Financial Year 2023-2024	During the Current Financial Year 2024-2025
(1)	Lime Stone	Cement (OPC, PPC, PSC)	1.065	1.013
(2)	Laterite		0.036	0.037
(3)	Iron Ore		0.010	0.012
(4)	Imported coal		0.038	0.024
	Indian Coal		0.000	0.000
	Indigenous Petcock		0.035	0.044
	AFR		0.011	0.010
	Total Fuel		0.084	0.078
(5)	Gypsum		0.022	0.021
(6)	Fly ash		0.334	0.348
(7)	Slag		2.807	6.639
(8)	PI - Limestone		0.014	0.014
(9)	Pozzolana Additive		0.018	0.019

Alternative Fuels & Raw materials (AFR)

Name the Wastes		UOM	During the Previous Financial Year 2023-2024	During the Current Financial Year 2024-2025
(1)	ETP Sludge (HW Cat. 35.3)	% per ton of Raw Meal	0.110	0.139
(2)	Alternative Fuels	TSR% (Thermal substitution ratio)	8.10	8.41



PART - C

**Pollution Discharged to Environment / unit of output
(Parameter as specified in the consent issued)**

Pollution	Quantity of Pollutants discharged (kg/day)	Concentrations of pollutants in discharges (Mass /Volume)	Percentage of variation from prescribed standards with reasons
(a) Water - Treated Sewage Water – 76.3 m³/day (Permitted quantity 150 m³/day)			
pH	Not Applicable	7.70	Maintained with in norm 5.5 – 9.0
TDS	39.9	523	75% lesser compare with norm 2100 mg/l
TSS	0.8	9.9	67% lesser compare with norm 30mg/l
BOD	0.4	5.8	71% lesser compare with norm 20mg/l
COD	3.3	42.6	83% lesser compare with norm 250mg/l
(b) Air – stack emission			
PM	129	22.68	24% lesser compare with norm 30mg/Nm ³
SO ₂	-	7.49	93% lesser compare with norm 100mg/Nm ³
NO _x	-	437	45% lesser compare with norm 800mg/Nm ³
Load Based Emission (Particulate Matter)	0.086 (kg / ton of clinker production)	-	31% lesser compare with norm 0.125kg /ton of clinker production

PART - D

HAZARDOUS WASTES

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

Sl. No	Hazardous Wastes	Total Quantity Generated in KL	
		During the Previous Financial Year 2023-2024	During the Current Financial Year 2024-2025
(a)	From Process Used Oil (Category No.5.1)	10.320	0.000
(b)	From Pollution Control Facilities	NIL	



**PART – E
SOLID WASTES**

Solid Wastes		Total Quantity (Kg)	
		During the Previous Financial Year 2023-2024	During the Current Financial Year 2024-2025
(a)	From Process - None	NIL	NIL
(b)	From Pollution Control Facilities - STP Sludge Generated	314	309
(c)	1. Quantity recycled or re-utilized within the unit (STP Sludge)	314	309
	2. Sold (STP Sludge)	NIL	NIL
	3. Disposed (STP Sludge)	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

Sl. No	Name of the Hazardous and Other Wastes	Quantity in tons /Annum				Characteristics	Disposal Practice Adopted
		Opening Balance as on 01.04.24	Receipt For the year 2024-25	Disposed / Co-processed for the year24-25	Closing Stock as on 31.03.25		
A. Hazardous Waste							
(1)	Spend Clay (HW Category No.4.5)	0.000	50.910	27.760	23.150	Solid GCV: 3340 -4300 kcal/Kg Ash: < 16% Moisture < 12% Cd+cr+Ni : <0.1%	Used as Alternative fuel in Cement Kiln
(2)	Wastes containing oil (HW Category No.5.2)	128.417	3772.000	3838.121	62.296	Solid GCV: 4000-4700kcal/Kg Ash: <6% Moisture : 2 - 4% Cd+cr+Ni : <0.1%	Used as Alternative fuel in Cement Kiln
(3)	Phosphate sludge (HW Category no.12.5)	0.000	140.980	140.283	0.697	Solid GCV: <500kcal/Kg pH : 9 -10 Ash : <90% Moisture : 20-40% Cd+cr+Ni+Zn : 0.1%	Used as Alternative fuel in Cement Kiln



Sl. No	Name of the Hazardous and Other Wastes	Quantity in tons /Annum				Characteristics	Disposal Practice Adopted
		Opening Balance as on 01.04.24	Receipt For the year 2024-25	Disposed / Co-processed for the year 24-25	Closing Stock as on 31.03.25		
(4)	Solvent (HW Category no.20.2)	0.000	36.510	36.510	0.000	Liquid GCV:5000-6000 kcal/Kg pH : 6-7 Ash :NIL Moisture : >10% Cd+cr+Ni+Zn : 0.5%	Used as Alternative fuel in our Cement Kiln
(5)	Distillation Residues, (HW category no.20.3)	0.000	7.010	7.010	0.000	Solid GCV:3000-3500 kcal/Kg Ash : <10% Moisture : 10-20% Cd+cr+Ni+Zn : 0.5%	Used as Alternative fuel in our Cement Kiln
(6)	Paint Sludge (HW Category No.21.1)	0.000	3958.580	3935.182	23.398	Solid GCV:4500-5000 kcal/Kg pH : 6-8 Ash : <5% Moisture : 20-32% Cd+cr+Ni+Zn : <2%	Used as Alternative fuel in Cement Kiln
(7)	Process Residues (HW Category No.22.2)	0.000	279.920	274.340	4.950	Solid GCV:3000-3500 kcal/Kg Ash : <10% Moisture : 10-20% Cd+cr+Ni+Zn : 0.5%	Used as Alternative fuel in Cement Kiln
(8)	Wastes & Residues (HW Category No.23.1)	133.647	7302.630	7390.797	45.480	Solid GCV : 3000-3500kcal/Kg pH : 6-7 Ash : <5% Moisture : 2-5% Cd+cr+Ni+Zn : 0.5%	Used as Alternative fuel in Cement Kiln
(9)	Spent Solvent (HW Category No.28.1)	0.000	1203.170	1203.170	0.000	Solid GCV : 3000-3500kcal/Kg pH : 6-7 Ash : <5% Moisture : 2-5% Cd+cr+Ni+Zn : 0.5%	Used as Alternative fuel in Cement Kiln
(10)	Spent Carbon (HW Category no.28.3)	0.000	87.550	82.100	5.450	Solid GCV:3500-3500kcal/Kg pH : 7-9 Ash : <20% Moisture : 10-20% Cd+cr+Ni+Zn : 0.5%	Used as Alternative fuel in Cement Kiln
(11)	Contaminated Cotton rags (HW Category No.33.2)	0.000	155.880	154.440	1.440	Solid GCV:3500-4000kcal/Kg pH : 7-9 Ash : <20% Moisture : <10% Cd+cr+Ni+Zn : <0.1%	Used as Alternative fuel in Cement Kiln



Sl. No	Name of the Hazardous and Other Wastes	Quantity in tons /Annum				Characteristics	Disposal Practice Adopted
		Opening Balance as on 01.04.24	Receipt For the year 2024-25	Disposed / Co-processed for the year 24-25	Closing Stock as on 31.03.25		
(12)	Cleaning gas residues (HW Category No.35.1)	84.280	2117.680	2201.960	0.000	Solid GCV:3500-4000kcal/Kg pH : 6-8 Ash : <20% Moisture : <10% Cd+cr+Ni+Zn : 0.5%	Used as Alternative fuel in Cement Kiln
(13)	ETP sludge (HW Category No.35.3)	58.034	3523.870	3567.814	14.090	Solid CaO : 25 - 35% Sio2 : 10 -20% Chloride : 20-30% Moisture : 30 -50 % Fe : 1-5% Mn : <2%	Co-Processing in Cement Kiln
(14)	Distillation residues (HW Category No.36.1)	0.000	333.180	333.180	0.000	Solid GCV:2500-3000kcal/Kg pH : 6-9 Ash : <40% Moisture : <20% Cd+cr+Ni+Zn : 0.5%	Used as Alternative fuel in Cement Kiln
(15)	Filter Medium (HW Category no.36.2)	0.000	61.170	56.400	5.310	Solid GCV:3000-3500kcal/kg Moisture : 9.08% Ash : <25%	Used as Alternative fuel in Cement Kiln
(16)	GEPIL Solid Waste Mix, (HW category.37.3)	0.000	493.170	451.841	41.329	olid GCV:2500-2800kcal/kg Moisture : 10-20% Ash : 20 - 50%	Used as Alternative fuel in Cement Kiln
Total (Hazardous waste)		404.378	23524.21	23700.908	227.59	-	-
B. Other Wastes (Non -Hazardous wastes)							
(1)	Solid Waste STP Sludge	0.000	0.314	0.309	0.000	Solid Dark granular, Soluble in water, pH : 6.8 -7.8. Nitrogen : 2 - 8%, Phosphorus : 0.3-1%, Potassium : 0.3-1%	Dried sludge used as manure for Green Belt Development
(2)	Plastic Waste & Municipal Bio mining Waste	457.711	5664.03	5940.473	181.268	Solid - Light Brownish colour GCV:2500 3000kcal/kg Sio2 : 25-35%, Fe2O3: 2-3% LOI : 10-15% K2O+Na2O : <1%	Used as Alternative fuel in Cement Kiln



Sl. No	Name of the Hazardous and Other Wastes	Quantity in tons /Annum				Characteristics	Disposal Practice Adopted
		Opening Balance as on 01.04.24	Receipt For the year 2024-25	Disposed / Co-processed for the year 24-25	Closing Stock as on 31.03.25		
(3)	Other Wastes (FRB Waste, Cotton Waste, Husk Waste, RDF, Emery sheet, Saw dust, Footwear waste)	377.599	8444.470	8640.509	181.560	Solid Which is received from Solid waste generated from Foot ware manufacturing units (Lotus Foot Wares) and other wastes received from various industries located from TN	Used as Alternative fuel in Cement Kiln
Total (Non Hazardous waste)		835.31	14108.814	14581.291	362.828	-	-

PART – G

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

Impact on Natural resources by implementation of Environmental conservation measures:

- ❖ **Alternative Fuel:** 34714.076 tons of Alternative Fuel (Hazardous and Other wastes) were consumed for the year 2024-25 which was 8.41% of total fossil fuel consumption. Last year was 6.3%
- ❖ **ETP Sludge:** 3567.814 tons of ETP sludge was consumed for the year 2024-2025 which is 0.1% of Raw meal consumption.
- ❖ **Waste water Management:** Generated Tread Sewage water 27840 m3 were effectively 100% used for gardening development within the plant premises.
- ❖ **Alternative Raw Materials:** 34.8% of the Fly ash consumed for PPC Cement Production and 13758 tons of waste slag consumed for PSC cement Production the year 2024-25 which were directly conserved the Limestone recourses. Last year was 2.81% and 6.64% respectively.
- ❖ **Water Management:** 100% harvested rainwater only is used for entire plant and Mines operation including domestic consumption and our colonies. 6.86 lac m3 of rain water collected and stored in mines pits for the year 2024-25.
- ❖ **Water Positive Index:** 2.05 of water positive index was achieved for the year 2024-25.
- ❖ 7250 kgs of canteen food wastes and 19210 kgs of cow dung were converted into Bio gas energy from Bio gas plant for the year 2024-25 by which we were conserved 520 kgs of LPG.



PART – H

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

Investment Proposal for the year 2025-26

- ❖ Rs.174.50 Lakhs for Air Pollution Control Measures which will include replacement of Bag Filters, ESP maintenance, dust suppression system etc.,
- ❖ Rs.14.0 lakhs for Water Pollution Control Measures
- ❖ Rs.15.50 lakhs for other Environmental Protection Measures like plantation of saplings, providing additional rainwater harvesting structures, Environment awareness etc.,

PART – I

Any other particulars for improving the quality of environment

- ❖ Alternative Fuel preprocessing facilities was commissioned on 02.07.2022. 10% TSR has been achieving since 24.09.2022 and we wish to inform you that RCO condition (Ref RCO no.2108237091918 under Air Act) of TSR-10% achievement was compiled.
- ❖ Proper maintenance of Pollution Control Equipment including ETP and STP ensured for effective and efficient operation of the same. Maintenance Cost of Pollution Control Equipment during 2024-25 was Rs. 141.90 Lakhs.
- ❖ Environmental Monitoring are being ensured to assess the effectiveness of Pollution Control Measures to initiate the effective action, if any required. Environmental Monitoring Cost during 2024-25 was Rs.37.5 Lakhs
- ❖ Green Belt Development area covered 34.55% of total plant area, So far, the total number of tree planted 54083 nos its coved 22.2 hectares @ 2414 trees / hectares and over all plant survival rate was 90%.
- ❖ Quality Management System as per IS/ISO 9001:2015, Environmental Management System as per IS/ISO14001:2015, Occupational Health & Safety Management System as per IS/ISO 45001:2018 and Energy Management System as per IS/ISO 50001:2018 are in place to ensure that all operation are carried out in compliance with international standards and all applicable environmental regulations.

Place : Karikkali

Date : 29th Sep, 2025

(Signature of the Authorized Person)

Name : V.KRISHNAN

Designation : JOINT PRESIDENT [WORKS]

