Chettinad cement
Pedagarlapadu Project

CCCPL/DACHEPALLI/ENV/2025

27th September, 2025

The Environmental Engineer,
Andhra Pradesh Pollution Control Board,
Regional Office, D No: 135-43, 1st Floor,
Lucky Complex, JKC College Road,
GUNTUR – 522007 (Andhra Pradesh)

Sub: Submission of Environmental Statement (Form-V) under Rule No.14 of E(P) Rules, 1986 & amendments thereof for our Integrated Cement Plant (3.5 MTPA Cement, 3.32 MTPA Clinker & 20 MW WHRB), 1X30 MW CPP located at Pedagarlapadu (V), Dachepalli (M), Guntur District, Andhra Pradesh for the period of 2024-25 - Reg.

Ref:
1. CFO Order No APPCB/VJA/GNT/CTO/HO/2024 Dated 27/02/2024.
2. Consent Order No. APPCB/VJA/GNT/CTO/HO/2024- Dated 25/04/2024.
3. EC F.N. J-11011/421/2011-IA.II (I), Dated 24.02.2015

Dear Sir,

Reference to the Consent Order and Environmental Clearance cited above, we are herewith submitting Environmental Statement (Form-V) under Rule No.14 of E (P) Rules, 1986 & amendments thereof for our Integrated Cement Plant (3.5 MTPA Cement, 3.32 MTPA Clinker & 20 MW WHRB), located at Pedagarlapadu (V), Dachepalli (M), Guntur District, Andhra Pradesh for the period of 2024-25.

This is for your information & records please.

Thanking you,

Yours faithfully,

For **Chettinad Cement Corporation Private Limited**

Seetharamulu Ch
Joint President (Works)

Copy: Inspector General of Forests,
Integrated Regional Office (IRO), Vijayawada Green House Complex,
Vijayawada – 520010, Andhra Pradesh – Soft copy through e-mail.

ENVIRONMENTAL STATEMENT

(FORM - V)

FOR FINANCIAL YEAR 2024-25

CEMENT – 3.5 MTPA, Clinker – 3.32 MTPA & WHRB – 20 MW

CHETTINAD CEMENT CORPORATION PRIVATE LIMITED

Pedagarlapadu (V), Dachepalli (M),

Guntur (Dist.), Andhra Pradesh - 522437

FORM – V

(See Rule 14)

Environmental Statement Report for Financial Year Ending 31st March 2025

Part – A

A.	Name and address of the owner / occupier of the industry operation or process	:	**Sri. Seetharamulu Ch** **Joint President –Works (Unit Head)** Chettinad Cement Corporation Private Limited Pedagarlapadu (V) & Kesanupalli (V) Dachepalli (M), Guntur District – 522 437 Andhra Pradesh.
B.	Industry category Primary – (STC Code)	:	--
C.	Secondary- (SIC Code)	:	--
D.	Production capacity	:	Cement - 3.5 MTPA Clinker – 3.32 MTPA WHRB – 20 MW
E.	Year of establishment	:	2018
F.	Date of last environmental statement submitted	:	28.09.2024

Part – B

Water and Raw Material Consumption

1. Water consumption in (KLD):

Cement Plant	:	445.6
WHRB	:	79.0
Domestic (Colony)	:	97.8

Name of the products	Process water consumption per unit of products (m^3/Tonne of Product)	
	During the current financial year (2023-24)	During the current financial year (2024-25)
Clinker (m^3 /Ton)	0.070	0.073
Cement (m^3 /Ton)	0.140	0.135
WHRB (m^3 /MW)	0.306	0.341

2. Raw Material Consumption:

Name of raw materials	Name of products	Consumption of raw material per unit of output (MT of Raw materials/ MT of Product)	
		During the current financial year (2023-24)	During the current financial year (2024-25)
Limestone	Clinker	1.3971	1.4210
Laterite	Clinker	0.0792	0.0593
Feldspar	Clinker	0.0134	0.0141
Iron Ore	Clinker	0.0049	0.0203
Pond Ash-Raw Mix	Clinker	0.0047	0.0098
Fly ash-Raw Mix	Clinker	0.0186	0.0151
Imp Pet coke	Clinker	0.0281	0.0640
Imported Coal	Clinker	0.0818	0.0333
Indigenous Coal	Clinker	0.0000	0.0000
Imported Gypsum	Cement	0.0156	0.0087
Chemical Gypsum	Cement	0.0062	0.0068
Fly ash in PPC	Cement	0.3641	0.3775

Part – C

Pollution Discharged To Environment/Unit of Output

(Parameter as specified in the consent issued)

Pollutants		Quantity of pollutants discharged (mass/day)	Concentrations of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
a) Water	**Pollutants**	**Kg/day**	**mg/L**	**%**
Domestic - Sewage Treatment Plant (STP)	Total Suspended Solids	2.266	23.7	-76.35
	Biological Oxygen Demand	0.797	8.3	-72.28
	Oil & Grease	0.000	<1.0	0.0
	Faecal Coliform (MPN)	6.882	71.8	-92.82
WHRB Effluent (N-Pit)	**Pollutants**	**Kg/day**	**mg/L**	**%**
	Total Suspended Solids	0.000	<1.0	0.0
	Biological Oxygen Demand	0.324	6.8	-77.39
	Oil & Grease	0.000	<1.0	0.0

b) Air	Pollutants	Kg/day	mg/Nm^3	%
Emissions from Stacks	Kiln / Raw Mills -PM	222.2	13.8	-53.89
	Kiln / Raw Mills - SO_2	202.4	12.6	-87.40
	Kiln / Raw Mills - NO_x	3880.8	241.6	-59.74
	Clinker Cooler - PM	206.8	18.5	-38.31
	Coal Mill – PM	31.4	11.3	-62.25
	Cement Mill - PM	41.8	15.5	-48.36

Part – D
Hazardous Waste

As specified under

Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

Hazardous waste	Total Quantity (MT)	
	During the current financial year (2023-24)	During the current financial year (2024-25)
a) Form Process		
Used / Waste Oil (5.1 of Schedule-I)	2.0 KL	8.24 KL
Used Grease (5.2s of Schedule-I)	2.3 MT	4.54 MT
b) Form Pollution Control Facilities	Nil	Nil

Part – E
Solid Waste

Solid waste	Total Quantity (Tonnes)	
	During the previous financial year (2023-24)	During the current financial year (2024-25)
A. From process	Nil	Nil
B. From pollution control facilities	Cement dust from APCD's was recycled back in to process.	Cement dust from APCD's was recycled back in to process.
C. 1. Quantity recycled or re-utilized within the unit	Nil	Nil
2. Sold	Nil	Nil
3. Disposed	Nil	Nil

Part – F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicates disposal practice adopted for both these categories of wastes

- Hazardous waste (Used / waste Oil – 8.24 KL & Used Grease – 4.54 MT) was generated & utilized internally for lubrication purpose, during 2024-25.
- 740 Kgs of E-waste generated was disposed to authorized recyclers - Green World Recyclers during 2024-25.
- 83 No's (1 Lot) of Scrap Lead Acid batteries was generated & disposed to APEMCL registered agency i.e., F.A Industry during 2024-25.
- No Solid waste is generated in the Manufacturing process.

Part – G

Impact of the Pollution Control Measures on Conservation of Natural Resources and Consequently On the Cost of Production

- We, M/s. Chettinad Cement Corporation Private Limited are operating Integrated Cement Plant (Cement 3.5 MTPA, Clinker 3.32 MTPA & WHRB with Power Generation capacity of 20 MW) at Pedagarlapadu (V), Dachepalli (M), Guntur District with CFO vide order No: APPCB/VJA/GNT/CTO/HO/2024 Dated 27/02/2024 valid up to 28.02.2029.
- We have installed Air Pollution Control Devices (APCD's) designed for complying with new emission standards such as RABH for Kiln & Raw Mill, Bag House's for Coal Mill & Cement Mill, ESP for Clinker cooler.
- We have installed state of art Pyro Redox Low NOx Calciner technology at our pyro processing section to reduce the NOx emissions below the prescribed standards.

RABH for Kiln & Raw Mill

ESP for Clinker Cooler

Bag House for Coal Mill

Bag House for Cement Mill

Pyro redox for NOx reduction

- Adequate dust collection and extraction systems provided at material transfer points, silo tops to avoid fugitive emissions. About 90 numbers of Pulse Jet Bag Filters are provided at various transfer points for effective controlling of pollution from the manufacturing process. Thus collection dust is being recycled back in to the process.

Bag filter at cement silos top

Bag filter at blending silo top

- For controlling of fugitive emissions, Closed sheds provided for storage & handling of the Limestone, Coal, Additive and Gypsum.

Closed Limestone Storage Shed

Closed Additive Storage Shed

Gypsum storage shed & conveying

Coal Storage Shed

- All the Material transfer conveyors belts are covered with GI cladding / closed conveying system to avoid dust emissions. Transfer points of BC's are provided with Bag filters.

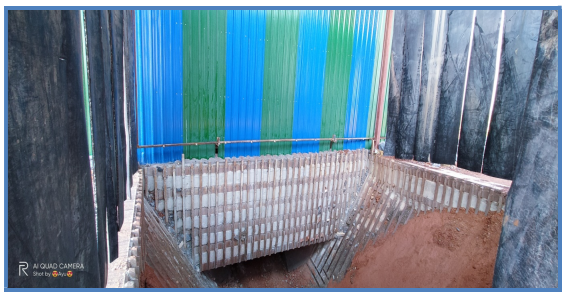
Cladding for all BC's

Bag filters at clinker transport system

- Fly ash is stored in silo, transported through Bouzers & unloaded pneumatically for controlling the fugitive emissions. Clinker is stored in Silo for avoiding fugitive emissions.

- All the Internal roads are made with Cement Concrete to reduce the dust emission. Vacuum / pneumatic dust collection system (Road Sweeping Machine) is in place for cleaning the internal roads & maintaining housekeeping. Regular water spraying on roads is practiced.

- Water sprinkling system & Rubber curtains at Hoppers to suppress to dust while unloading the materials



- We have developed greenbelt covering all along the plant boundary, along the internal roads and in vacant places. As on 2024-25, greenbelt was developed in an area of 108.34 Acres with 52104 saplings.

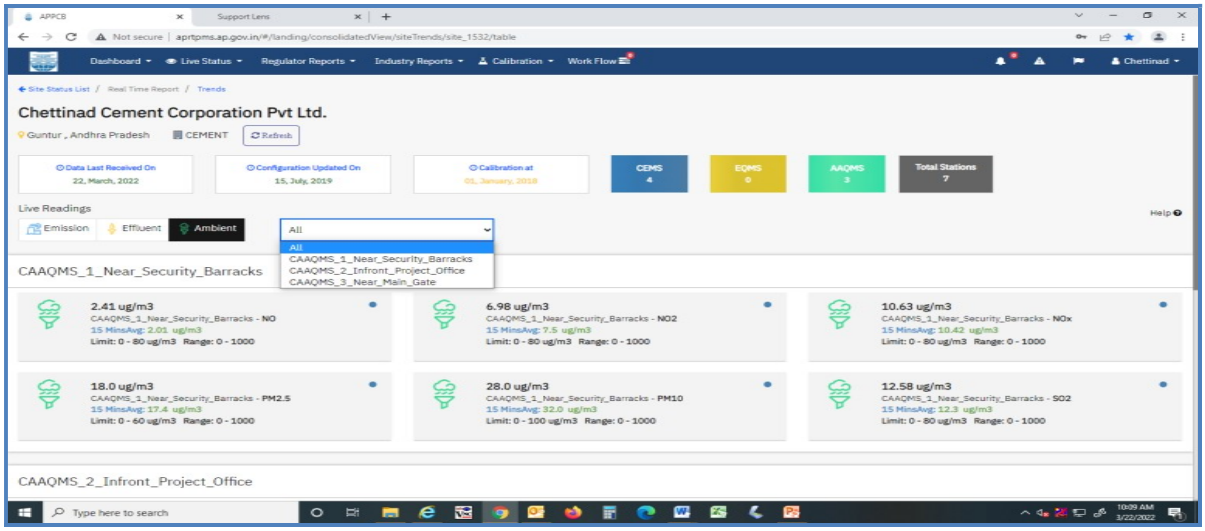
Year of Plantation	Saplings Planted	Area in Ha	Area in Acres	Survival Rate (%)
2017-18	4500	4.05	10.00	96%
2018-19	2800	2.52	6.22	96%
2019-20	3411	1.82	4.49	98%
2020-21	2705	2.43	6.01	98%
2021-22	24186	22.17	54.77	90%
2022-23	6847	6.14	15.18	85%
2023-24	3327	4.85	11.66	80%
2024-25	4328	--	--	75%
Total	**52104**	**43.98**	**108.34**	

- We have installed 03 No's Continuous Ambient Air Quality Monitoring (CAAQM) Stations covering Predominant directions & real time data is connected & uploaded to both APPCB and CPCB Websites.

CAAQM-1 @ Security Barracks

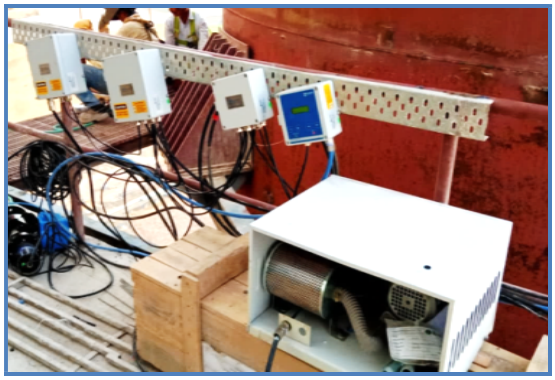
CAAQM-2 @ Project Office

CAAQM-3 @ Main Gate



CAAQMS Data connectivity to APPCB website

- Continuous Emission Monitoring Systems (CEMS) has been installed for 4 No's major stacks and connected to APPCB and CPCB Websites.

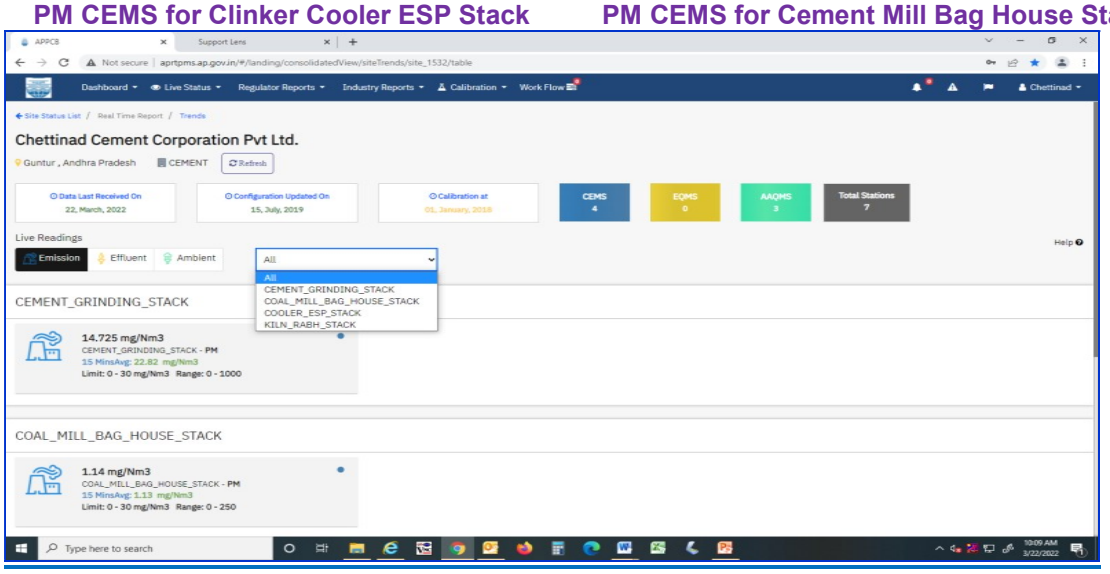


PM & Gaseous CEMS for Kiln & Raw Mill RABH Stack


PM CEMS for Coal Mill Bag House Stack


PM CEMS for Clinker Cooler ESP Stack

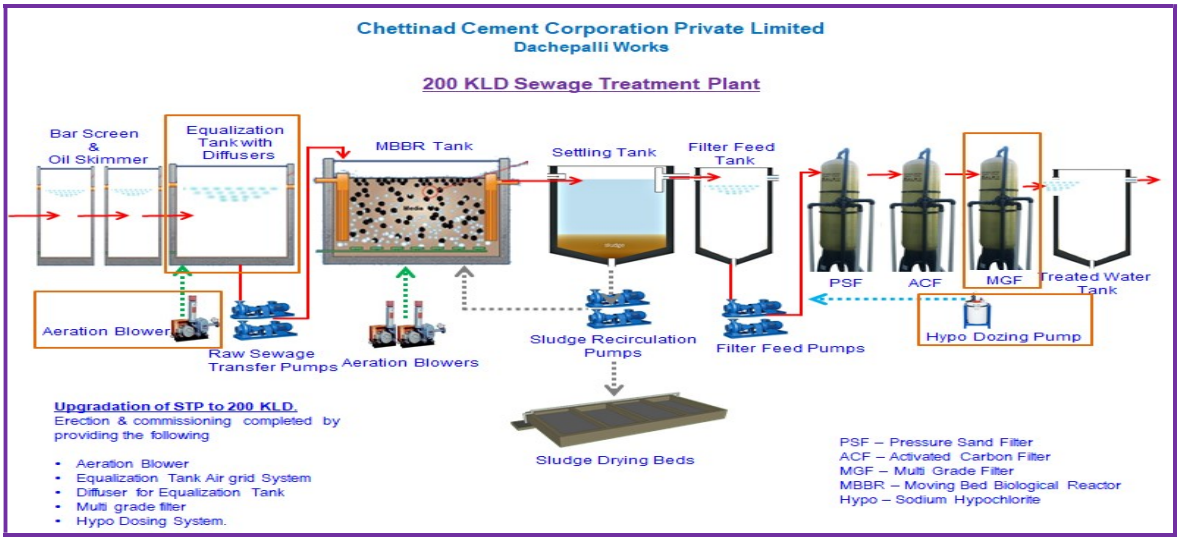
PM CEMS for Cement Mill Bag House Stack



CEMS Data connectivity to APPCB website

- We have provided Display Board at the Plant Entrance gate for displaying real time stack emissions, CAAQM stations data, CFO parameters, HW details in public domain.


- Sewage Treatment Plant upgraded to 200 KLD for treatment of waste water & the treated waste water is utilized for greenbelt development.



- We have constructed wind barrier of 1.7 kms length with 6 mtrs height along the boundary with an investment of around 3.0 cr.

- Environmental Monitoring are carried out by deputing MoEF recognized 3rd party and the reports are regularly submitted to concerned Statutory Authorities.
- We have developed dedicated Pre-Processing & Co-processing facility with an investment of 21.07 crores.
- Pre-processing facility with shredder and dedicated co-processing facility for utilizing both Hazardous & Non Hazardous wastes.
- Pre-processing is carried out in dedicated shed with concrete floor for complete leachate control.

- The details of Hazardous & Non-Hazardous waste Handled during the year 2024-25 are:

Sl. No	Details of AFR Handled during 2024-25	Quantity (MT)
1	Opening Balance	890.292
2	Qty of Hazardous & Non-Hazardous waste Received	36262.824
3	Qty of Hazardous & Non-Hazardous waste Co-Processed	33689.959
4	Closing Balance	3463.157

- We have installed 2 no's of Piezometers with telemetry system at our Plant site & Mines Office & continuously monitoring Ground Water levels.
- World Environment Day celebrations carried out covering Employees, workmen, family members & children to create awareness on Environment protection and various competitions such as Quiz, Elocution, Painting competition, cleanliness drive held, Plantation carried out.




- As part of **SWACHH ANDHRA DIWAS** various activities are being organized in surrounding villages for creating awareness on environment protection


Part – H

Additional Investment for Environmental Protection Including Abatement of Pollution

- An amount of Rs.22.03 Crores incurred towards capital expenditure during the year 24-25.

Description	Amount (Rs.)
3MW SOLAR POWER PLANT	154684270
Rain Harvesting pit - EC & CFO compliance	1417004
Spiral Stair case for Cooler ESP Stack	2036807
Construction of main road from Plant	23049783
Equipment for AFR	4095540
Clinker Silo-2	35059616
Grand Total (in Crores)	**22.03**

- An amount of 11.87 Crores incurred towards revenue expenditure for environment protection measures during the year 2024-25.

Description	Amount (Rs.)
GREENBELT (MAN POWER /TANKERS)	3274861
ENVIRONMENT MONITORING CHARGES	588700
AMC FOR CEMS / CAAQMS / BMW / STP	1041750
GENERAL SPARES & CONSUMABLES	574185
ELECTRICITY CONSUMPTION FOR APCE's	113249950
Grand Total (in Crores)	**11.87**

PART – I

Any Other Particulars for Improving the Quality of the Environment

- Greenbelt developed in an area of 108.34 Acres with 52104 no's saplings covering Cement Plant and Colony as on 31.03.2025. Further, we are working on increasing the density in plantation area and also in improving the survival rate.
- We have implemented ISO – 14001:2015 Environment Management System certified by BSI for taking utmost care of the Environment.

Authorized Signatory

Seetharamulu Ch

Joint President –Works (Unit Head)

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