



ANDHRA PRADESH POLLUTION CONTROL BOARD
Dr. YSR Paryavaran Bhavan, APIIC Colony Road,
Gurunanak Colony, Autonagar, Vijayawada- 520007 Phone.
No.0866-2463200, Website :https://pcb.ap.gov.in/



RED CATEGORY
RENEWAL OF CONSENT TO OPERATE & AUTHORIZATION ORDER

Consent Order No: APPCB/VJA/GNT/CTO/HO/2024 Date: 27/02/2024

CONSENT is hereby granted for Operation under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21/22 of Air (Prevention & Control of Pollution) Act 1981 and amendments thereof and Authorization under Rule 6 of the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 & Amendments thereof and the rules and orders made there under (hereinafter referred to as 'the Acts', 'the Rules') to:

M/s. Chettinad Cement Corporation Private Limited,
Sy. No 184, 185 etc., of Pedagarlapadu (V),
Sy. No 642 & 643 of Kesanupalli (V),
Dachepalli (M), Palnadu District.
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(Herein after referred to as 'the Applicant') authorizing to operate the industrial plant to discharge the effluents from the outlets and the quantity of emissions per hour from the Chimneys as detailed below:

i) Outlets for discharge of effluents:

Outlet No.	Outlet Description	Max Daily Discharge	Point of Disposal
1	WHRB Power Plant	142 KLD	After treatment, shall be used for greenbelt development and for dust suppression.
2	Domestic Effluents (Cement Plant -22.5 KLD, CPP- 22.5 KLD, Township- 97.5 KLD)	142.5 KLD	After treatment in STP, the treated waste water shall be used for on land for irrigation within the plant premises
	Total	284.5 KLD	

ii) Emissions from chimneys:

Chimney No.	Description of Chimney	Quantity of Emissions at Peak flow (m³/hr)
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1	Attached to Raw Mills 2x350 TPH each, Kiln-1x354 TPH, WHRB-1x93 TPH	--
2	Attached to Clinker Cooler 1x354 TPH	--
3	Attached to Cement mills 2 Nos with OPC 280 TPH, PPC 310 TPH.	--
4	Attached to Coal Mill of 1X75 TPH	--
5 to 8	Attached to Packing Sections 4X180 TPH	--
9	Attached to 1 x 250 KVA DG set	--
10	Attached to 1 x 125 KVA DG set	--
11	Attached to Lime Stone Crusher	--

iii) Hazardous Waste Authorization (Form-II) [See Rule 6(2)]:

M/s. Chettinad Cement Corporation Private Limited, Sy. No 184, 185 etc., of Pedagarlapadu (V) and Sy. No 642 & 643 of Kesanupalli (V), Dacheipalli (M), Palnadu District is hereby granted an Hazardous waste authorization to operate a facility for collection, reception, storage, treatment, transport and disposal of Hazardous Wastes namely:

• **HAZARDOUS WASTES WITH DISPOSAL OPTION:**

S. no	Name of the Hazardous Waste	Stream	Quantity	Method of disposal
1.	Used / Waste Oil	5.1 of schedule - I	28.5 Kl/ Annum	Shall utilize within the industry premises for lubrication purpose/ Shall be sent to authorized Re-Processors through M/s. APEMC.
2.	Used Grease	5.2 of schedule - I	10.5 Tons / Annum	
3.	Hi-chrome balls	--	1.5 tons once in 3 years	Shall send back to manufacturers / authorized agencies through M/s. APEMC.

• **HAZARDOUS WASTES WITH CO-PROCESSING OPTION:**

S. No	Name of the Hazardous Waste	Streams	Quantity	Method of disposal
1.	Pre-Processing & Co-Processing of Hazardous wastes	1.2,1.3,1.4, 1.7, 2.1 to 2.3, 3.1 to 3.4, 4.1 to 4.5, 5.1 to 5.3, 12.5, 12.6,12.8, 13.4 to 13.6, 20.1 to 20.4, 21.1, 21.2, 22.1,22.2,23.1,23.2, 24.1, 25.1,25.2,27.1, 28.1 to 28.6, 29.1 to 29.6, 31.1, 32.1, 33.1, 33.2, 34.1, 34.2, 35.1,35.3,35.4, 36.1,36.2,37.1 to 37.3 of Schedule-I	50,000 MTPA	The industry shall receive the Hazardous wastes through APEMC for Pre-Processing & Co-Processing and shall be used in Cement Kiln.

• **NON-HAZARDOUS WASTES WITH CO-PROCESSING OPTION:**

S.No	Name of the Non-Hazardous Waste	Quantity	Method of disposal
1	Pre-Processing & Co-Processing of Non-Hazardous wastes: MSW, RDF, Plastic waste, Poly Urethane Foam, Footwear Waste, Dolochar, Carbon Black, Shredded Waste tyre, Rubber waste, Biomass (Rice Husk, Ground nut husk, Mango Kernels and Other waste from Agro-based industries), Non-Hazardous industrial wastes, Non-recyclable materials from ware houses such as date expired or off specification FMCG, Food & Kindred and other products etc.,	50,000 MTPA	The industry shall receive the wastes for Pre-Processing & Co-Processing and shall be used as fuel in Cement Kiln.

OTHER WASTE FROM SCHEDULE –III WITH CO-PROCESSING OPTION

S.No	Other wastes	Streams	Quantity	Method of disposal
1	Rubber wastes (Basel number-B3040)*	--	10,000 MTPA	The industry shall receive the wastes through APEMC for Pre-Processing & Co-Processing shall be used as fuel in Cement Kiln.

* The wastes in part-B of Schedule-III are restricted and cannot be allowed to be imported without permission from the MoEF&CC and the Directorate General of Foreign Trade licence, if applicable.

This consent order is valid for the following activity along with capacity only:

S.No	Product	Quantity
1	Cement	3.5 million TPA*
2	Captive Power from waste Heat Recovery Boiler (WHRB)	20 MW

* Includes production of clinker – 3.32 million TPA.

The industry is permitted to use 100% pet Coke-3,00,000 Tons/Annum (Indian/Imported) (or) imported Coal – 4,20,000 TPA as a fuel in cement Kiln.

This order is subject to the provisions of ‘the Acts’ and ‘the Rules’ and orders made there under and further subject to the terms and conditions incorporated in the schedule A, B& C enclosed to this order.

This combined order of consent & Hazardous Waste Authorization shall be valid for a period ending with the **28th day of February, 2029.**

B SREEDHAR IAS, MS(BS), O/o MEMBER SECRETARY-APPCB

To
M/s. Chettinad Cement Private Corporation Limited,
Sy.No 184, 185 etc., of Pedagarlapadu (V),
Sy.No 642 & 643 of Kesanupalli (V),
Dachepalli (M), Guntur District.

Copy to:

1. The JCEE, ZO: Vijayawada for information and necessary action.
2. The EE, RO: Guntur for information and necessary action.

SCHEDULE- A

1. Any up-set condition in any industrial plant / activity of the industry, which result in, increased effluent / emission discharge and/ or violation of standards stipulated in this order shall be informed to this Board, under intimation to the Collector and District Magistrate and take immediate action to bring down the discharge/ emission below the limits.
2. The industry shall carryout analysis of waste water discharges or emissions through chimneys for the parameters mentioned in this order on quarterly basis and submit to the Board.
3. All the rules & regulations notified by Ministry of Law and Justice, Government of India regarding Public Liability Insurance Act, 1991 should be followed as applicable.
4. Not with standing anything contained in this consent order, the Board here by reserves the right and powers to review / revoke any and/or all the conditions imposed here in above and to make such variations as deemed fit for the purpose of the Acts by the Board.
5. The industry shall ensure that there shall not be any change in the process technology, source & composition of raw materials and scope of working without prior approval from the Board.
6. The applicant shall submit Environment statement in Form V before 30th September every year as per Rule No.14 of E (P) Rules, 1986 & amendments thereof.
7. The applicant should make applications through Online for renewal of Consent (under Water and Air Acts) and Authorization under HWM Rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts and detailed compliance of CFO conditions for obtaining Consent & HW Authorization of the Board.
8. The industry should immediately submit the revised application for consent to this Board in the event of any change in the raw material used, processes employed, quantity of trade effluents & quantity of emissions. Any change in the management shall be informed to the Board. The person authorized should not let out the premises /lend / sell / transfer their industrial premises without obtaining prior permission of the State Pollution Control Board.
9. Any person aggrieved by an order made by the State Board under Section 25, Section26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within 30 days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules 1982, to Appellate authority constituted under Section 28 of the Water (Prevention and Control of Pollution) Act,1974and Section31ofthe Air(Prevention and Control of Pollution) Act, 1981.
- 10.The conditions stipulated are without prejudice to the rights and contentions of this Board in any Hon'ble court of law.
- 11.The industry shall be liable to pay Environmental Compensation/Other Environmental Taxes, if any environmental damage caused to the surroundings, as fixed by the Collector & District Magistrate or any other competent authority as per the Rules in vogue.
- 12.The industry may explore the possibility of tapping the solar energy for their energy requirements.

13. The industry should educate the workers and nearby public of possible accidents and remedial measures.

SCHEDULE-B

1. **The item was placed in the Consent Management Committee meeting held on 16.02.2024 and the committee recommended to issue CTO & HWA (Renewal), duly stipulating the following conditions:**

- a. The industry shall install digital display board at publicly visible places at the main gate.
- b. The industry shall complete the construction of 6 m. height wind barrier towards south compound wall.
- c. The industry shall construct the compound wall at lime stone crusher and (finish the compound wall) at other places in the industry premises.
- d. The industry shall store the hazardous waste brought for co-processing under shed. Then only the industry shall accept the hazardous waste for co-processing.

Water Pollution:

2. The source of water being bore well. The following is the permitted water consumption:

S.No	Purpose	Quantity (KLD)
1	Process	300.0
2	Cooling	270.0
3	WHRB	212.0
4	Domestic including Township	160.0
5	Greenbelt	90.0
	Total	1032.0

Separate meters with necessary pipe-line shall be maintained for assessing the quantity of water used for each of the purposes mentioned above

3. The industry shall comply the following effluent standards for Trade and domestic effluents based on the disposal points permitted:

Outlet No	Parameter	Concentration
1	pH	5.5 – 9.0
	Total Suspended Solids (TSS)	100 mg/l
	Oil & Grease	10 mg/l
	Temperature	Not more than 5°C higher than the intake water temperature
Outlet No.	Parameter	Limiting Standards

2	pH	5.50 – 9.00
	Suspended Solids	<100.0mg/l
	Oil & Grease	10.0mg/l
	Biochemical Oxygen Demand(BOD)	30.0mg/l
	Fecal coliform (FC) (Most Probable Number per 100 milliliter,MPN/100ml)	< 1000

4. The industry shall not discharge any waste water outside the factory premises and maintain zero discharge of effluents.
5. The industry shall maintain rainwater runoff tank with pump for collection and storage of first flush storm water and the same shall be sent to ETP for further treatment. The industry shall maintain dry condition in outside drains during non-rainy season.
6. The industry shall provide separate energy meters for Effluent Treatment Plant/Sewage Treatment Plant and shall maintain log records
7. Rain water shall not be allowed to mix with either trade or domestic effluents and the industry shall maintain storm water drains, properly.
8. The industry shall not cause ground water pollution in and around the industry premises.

Air Pollution:

9. The emissions shall not contain constituents in excess of the prescribed limits mentioned below, as per notifications of MoEF&CC, GoI issued vide G.S.R.612 (E), Dt.25.08.2014 and G.S.R. 496 (E), Dt.09.05.2016 :

Chimney No.	Parameter	Emission Standards
1	Particulate Matter	30 mg/Nm ³
	SO ₂ **	100 mg/Nm ³
	NO _x	600 mg/Nm ³
	HCl	10 mg/Nm ³
	HF	1 mg/Nm ³
	TOC	10 mg/Nm ³
	Hg and its compounds	0.05 mg/Nm ³
	Cd +Tl and their compounds	0.05 mg/Nm ³
	Sb+As+Pb+Co+Cr+Cu+Mn+Ni+V and their compounds	0.5 mg/Nm ³
	Dioxins and Furans	0.1 ngTEQ/ Nm ³
*The norms of SO ₂ & NO _x shall be applicable to kiln only		
** Assuming pyritic sulphur to the limestone is less than 0.25 %		

The monitored values of SO₂, NO_x, HCl, HF, TOC, Metals and Dioxins and Furans at main kiln stack shall be corrected to 10% Oxygen, on dry basis and the norms for SO₂, NO_x, HCl, HF, TOC, Metals and Dioxins and Furans shall be applicable to main kiln stack and the norms for Particulate Matter (PM) shall be applicable to all the stacks in

the plant. PM, SO₂, NO_x shall be monitored continuously. HCl, HF, TOC, Metals and Dioxins and Furans shall be monitored once in a year.

10. The industry shall continuously operate Pyro Redox Low NO_x Calciner technology at Pyro Processing Section to reduce the NO_x emissions.
11. The industry shall comply with the Air Emissions Discharge standards issued by MoEF&CC vide Notification dated 10.05.2016.
12. The industry shall comply with ambient air quality standards of PM₁₀ (Particulate Matter size less than 10mm) - 100 mg/ m³; PM_{2.5} (Particulate Matter size less than 2.5 mm) - 60 mg/ m³; SO₂ - 80 mg/ m³; NO_x - 80 mg/m³, outside the factory premises at the periphery of the industry. Standards for other parameters as mentioned in the National Ambient Air Quality. Standards CPCB Notification No. B-29016/20/90/PCI-I, dated 18.11.2009.
Noise Levels: Day time (6 AM to 10 PM) - 75 dB (A)
Night time (10 PM to 6 AM) - 70 dB (A)
13. The industry shall comply with emission limits for DG sets of capacity upto 800 KW as per the Notification G.S.R. 804(E), dated 03.11.2022 under the Environment (Protection) Act Rules. In case of DG sets of capacity more than 800 KW shall comply with emission limits as per the Notification G.S.R.489 (E), dated 09.07.2002 at serial no.96, under the Environment (Protection) Act, 1986.
14. Vacuum / pneumatic dust collection system shall be used for cleaning the internal roads.
15. The industry shall provide interlocking system for air pollution control equipments provided with raw material feeding system so that the feeding of raw material would be stopped in case of failure of the air pollution control equipments.
16. The industry shall maintain adequate dust collection and extraction system to control fugitive emissions at various material transfer points & the dust collected from pollution control equipments shall be recycled back into the process.
17. The industry shall ensure implementation of requisite measures to prevent air pollution in the surrounding area and shall develop avenue plantations along the roads and available vacant spaces in coordination with local panchayats.
18. The industry shall properly maintain the following mitigate fugitive emissions:
 - i. Closed shed for storage of raw materials
 - ii. Bag Filter at different material transfer points to avoid fugitive emissions
 - iii. Clinker silo, fly ash silo etc. for avoiding fugitive emissions.
 - iv. Thick & 3 row avenue plantation all along the plant boundary wall
 - v. All the Concrete internal roads.
19. The industry shall continuously operate three CAAQM stations and shall transmit the data to the CPCB/APPCB servers without interruptions continuously.
20. The industry shall provide separate energy meter for Air Pollution Control Equipment and shall maintain log records.
21. The industry shall continuously operate online emission monitoring system provided to Raw mill & Kiln, Cooler & Cement mill and shall continuously transmit the data to CPCB / APPCB servers. The industry shall carry out regular calibration of OCEMS

systems as per the CPCB protocol.

General:

- 22.The industry shall not manufacture new products and not exceed the consented capacity without CTE/CTO of the Board.
- 23.The industry shall comply with the CPCB Guidelines for Pre-Processing and Co-Processing of Hazardous and Other Wastes in Cement Plant as per H&OW(M & TBM) Rules, 2016, issued on July,2017.
- 24.The industry shall maintain the following records and the same shall be made available to the inspecting officers of the Board:
- Daily production details.
 - Quantity of Effluents generated, treated, force evaporated, condensate generated and recycled/reused
 - Log Books for pollution control systems.
 - Characteristics of effluents, Ambient air quality and emissions.
 - Hazardous/Non-hazardous solid waste generated and disposed.
 - Inspection book.
 - Manifest copies of hazardous waste.
- 25.The industry shall dispose solid waste (NON-HAZARDOUS) as follows

S. No	Name of the Solid Waste	Quantity	Disposal Method
1.	Cement Dust	200 Kg /Day	Shall be recycled back to processes.
2.	Coal Ash (when 100% Indian coal is used)		
a.	Fly ash	0.351M TPA	Shall be used in the cement plant.
b.	Bottom Ash	0.039M TPA	
3.	Coal ash (when 100% imported coal is used)		
a.	Fly ash	0.0576 MTPA	Shall be used as bed material for boiler / for laying roads
b.	Bottom Ash	0.006M TPA	

- 26.The industry shall install digital display boards at publicly visible places at the main gate indicating the products manufactured Vs permitted quantities, Treated effluent concentrations Vs discharge standards, Stack emission & AAQ concentrations Vs standards, hazardous waste generation, disposed, stock Vs permitted quantities and validity of CFO; and exhibit the CFO order at a prominent place in the factory premises, as per Hon'ble Supreme Court order.
- 27.The industry shall submit Half yearly compliance reports to all the stipulated conditions in Environmental Clearance (EC), Consent for Establishment (CFE) and Consent for Operation (CFO) through website i.e., <https://pcb.ap.gov.in> by 1st of January and 1st July of every year. The first half yearly compliance reports shall be

furnished by the industry and second half yearly compliance reports shall be the, audited through MoEF&CC recognized and National Accreditation Board for Laboratory Testing (NABL) accredited third party.

- 28.The industry shall install fluorescent Wind Vane at the highest point in the industry premises.
- 29.The industry shall submit the copy of the safety audit report and On-Site / Off Site Emergency Plans as applicable after being certified by the Factories Department to the APPCB, Regional Office from time to time.
- 30.The conditions stipulated are without prejudice to the rights and contentions of this Board in any Hon'ble Court of Law.
- 31.Any other directions / circulars / notices / guidelines issued by CPCB, MoEF&CC and APPCB shall be followed from time to time.
- 32.The Board reserves its right to modify above conditions or stipulate any further conditions and to take action including revoke of this order in the interest of protection of public health and environment.

Special conditions:

- 33.The industry shall operate with valid NOC issued by the Andhra Pradesh State Disaster Response and Fire Service Dept., (APSDRFSD).
- 34.The industry shall maintain valid PESO.
- 35.The industry shall maintain valid PLI policy which includes Environmental Relief Fund (ERF) and submit copy to RO, Guntur.
- 36.The industry shall prepare a safety report and carry out an independent safety audit report of the respective industrial activities and get it approved by the Factories Dept., and submit the compliance along with copy of the safety report, safety audit report and safety certificate at concerned Regional Office, APPCB.

SCHEDULE – C

[See rule 6(2)]

**[CONDITIONS OF AUTHORIZATION FOR OCCUPIER OR OPERATOR
HANDLING HAZARDOUS WASTES]**

1. The authorized person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the State Pollution Control Board.
3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the Hazardous and other wastes except what is permitted through this authorization.
4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
5. The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
6. The person authorized shall comply with the provisions outlined in the Central

Pollution Control Board guidelines on “Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty”.

7. It is the duty of the authorized person to take prior permission of the State Pollution Control Board to close down the facility.
8. An application for the renewal of an authorization shall be made as laid down under these Rules.
9. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
10. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.
11. The authorized person shall not store hazardous waste for more than 90 days as per the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016.
12. The authorized person shall store Used / Waste Oil and Used Lead Acid Batteries in a secured way in their premises till its disposal to the manufacturers / dealers on buyback basis.
13. The authorized person shall maintain 7 copy manifest system for transportation of waste generated and a copy shall be submitted to concerned Regional Office of APPCB. The driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of an emergency during transit. The transporter should carry a Transport Emergency (TREM) Card.
14. The authorized person shall maintain proper records for Hazardous & other wastes stated in Authorization in Form-3 i.e., quantity of Incinerable waste, land disposal waste, recyclable waste etc., and file annual returns in Form- 4 as per Rule 6 (5) of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016 and amendments thereof by June 30th for the period ensuring 31st March of the year.
15. The authorized person shall submit the condition wise compliance report of the conditions stipulated in Schedule A, B & C of this Order on half yearly basis to Board Office and concerned Regional Office.

**B SREEDHAR IAS,
MS(BS), O/o MEMBER SECRETARY-APPCB**

To

**M/s. Chettinad Cement Private Corporation Limited,
Sy.No 184, 185 etc., of Pedagarlapadu (V),
Sy.No 642 & 643 of Kesanupalli (V),
Dachepalli (M), Guntur District.**