



ANDHRA PRADESH POLLUTION CONTROL BOARD
 D. No. 33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre,
 Chalamalavari Street, Kasturibaipet, Vijayawada - 520010
 Website: www.pcb.ap.nic.in

**RED CATEGORY
 CONSENT & AUTHORIZATION ORDER**

Consent Order No: APPCB/VJA/GNT/347/CFO/HO/2020- Date:03/07/2020

CONSENT is hereby granted for Operation under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of Air (Prevention & Control of Pollution) Act 1981 and amendments thereof and Authorisation 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 Limited,
 Sy.No 184, 185 etc., of Pedagarlapadu (V),
 Sy.No 642 & 643 of Kesanupalli (V),
 Dacheipalli (M), Guntur District.
 Email : tech@chettinadcement.com**

(Hereinafter 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 | Domestic Effluents | 200 KLD | Shall be treated in STP and the treated waste water (BOD - 30 mg/l) shall be used onland for irrigation within the plant premises. |
| 2 | Trade Effluents | 14 KLD | After treatment in ETP, the treated effluents to the Board's standards shall be utilized onland for irrigation. |

ii) Emissions from chimneys:

| Chimney No. | Description of Chimney | Air Pollution Control Equipment provided |
|-------------|---|--|
| 1. | Stack attached to 1 x 354 TPH - Raw Mill & Kiln | Bag House with Stack |
| 2. | Stack attached to 75 TPH Coal Mill | Bag Filters with Stack |
| 3. | Stack attached to Clinker Cooler | ESP with Stack |

| | | |
|----|---|-----------------------|
| 4. | Stack attached to 1 x 280 TPH Cement Mill | Bag House with Stack |
| 5. | Stack attached to 4 No. x 180 TPH Packing Sections | Bag Filters with Vent |
| 6. | Stack attached to 1 x 250 KVA DG set | Acoustic Enclosure |
| 7. | Stack attached to 1 x 125 KVA DG set | Acoustic Enclosure |
| 8. | Stack attached to Lime Stone Crusher | Bag filter with Stack |
| 9. | Stack attached to 2 x 200 TPH Boilers (Captive Power) | Not yet installed |

iii) Hazardous Waste Authorisation (Form – II) [See Rule 6 (2)] :

M/s. Chettinad Cement Corporation Limited, Guntur District is hereby granted an authorization to operate a facility for collection, reception, storage, treatment, transport and disposal of Hazardous Wastes namely:

• **Hazardous Wastes Disposed for Recycling:**

| S. N | Name of Hazardous Waste | Stream | Quantity | Mode of Disposal |
|------|---------------------------------|---------------------|--------------------------|---|
| 1 | Cement Dust | ---- | 200 Kgs / Day | Shall be recycled back into process. |
| 2 | Used / Waste Oil | 5.1 of Schedule - I | 28.5 KL/ Annum | Shall be disposed to authorised agencies. |
| 3 | Waste / Residues containing oil | 5.2 of Schedule - I | 10.5 Tons / Annum | |
| 4 | Hi-chrome balls | ---- | 1.5 Tons once in 3 years | Shall be sent back to manufacturers / authorised dealers. |

This consent order is valid for the following products along with quantities indicated only:

| S. No. | Name of the Products | Quantity as per CFE Expansion Order Dt.07.02.2018 | Permitted Quantity |
|--------|--|---|--------------------|
| 1 | Cement | 3.5 Million TPA | 3.5 Million TPA |
| 2 | Captive Power from Waste Heat Recovery Boiler (WHRB) | 20 MW | 20 MW |
| 3 | Captive Power Plant (Coal fired boiler) | 2 x 50 MW | ---- |

This order is subject to the provisions of 'the Acts' and the Rules' and orders made thereunder 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 29.02.2024.

BANDLA SIVA SANKARA PRASAD, CHAIRMAN, O/o CHAIRMAN-APPCB

To

M/s. Chettinad Cement Corporation Limited,

Sy.No 184, 185 etc., of Pedagarlapadu (V),

Sy.No 642 & 643 of Kesanupalli (V),

Dachepalli (M), Guntur District.

Email : tech@chettinadcement.com

Copy to:

1. The JCEE, Zonal Office, **Vijayawada** for information and necessary action.
2. The EE, Regional Office, **Guntur** for information and necessary action.

SCHEDULE – A

1. 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. 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.
2. The industry should put up two sign boards (6x4 ft. each) at publicly visible places at the main gate indicating the products, effluent discharge standards, air emission standards, hazardous waste quantities and validity of CFO and exhibit the CFO order at a prominent place in the factory premises.
3. The industry should carryout analysis of waste water discharges or emissions through chimneys for the parameters mentioned in this order on quarterly basis and submit the same to the Board.
4. 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.
5. Notwithstanding anything contained in this consent order, the Board hereby reserves the right and powers to review / revoke any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Acts by the Board.
6. The industry shall be liable to pay Environmental Compensation, 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.
7. Any person aggrieved by an order made by the State Board under Section 25, Section

26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty 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, 1974 and Section 31 of the Air (Prevention and Control of Pollution) Act, 1981.

8. 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.
9. 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.

SCHEDULE - B

Water Pollution:

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

| Outlet No | Parameter | Concentration |
|------------------|---|----------------------|
| 1 | pH | 6.5 – 9.0 |
| | Total Suspended Solids (TSS) | <100 mg/l |
| | Oil & Grease | 10 mg/l |
| | BOD | 30 mg/l |
| | Fecal coliform (FC) (Most Probable Number per 100 milliliter, MPN/100 ml) | < 1000 |

| Outlet No. | Parameter | Limiting Standards |
|-------------------|---------------------------------|---------------------------|
| 2 | pH | 5.50 – 9.00 |
| | Suspended Solids | 200.0 mg/l |
| | Oil & Grease | 10.0 mg/l |
| | Biochemical Oxygen Demand (BOD) | 100.0 mg/l |

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

| S. No | Purpose | Quantity (KLD) |
|--------------|-----------------------------|-----------------------|
| 1 | Industrial | 635.0 |
| 2 | Domestic including Township | 270.0 |
| 3 | Greenbelt | 90.0 |
| | Total | 995.0 |

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

7. **The industry shall operate the plant after obtaining the revocation of stop production order Dt.27.05.2020.**
8. The industry shall obtain amendment for CFE Expansion Order Dt.07.02.2018, as per the EC i.e, trade effluents generation - 409 KLD and domestic effluent generation -

250 KLD, incorporate the capacities of Raw Mill & Kiln i.e. 1x350 TPH & 1x354 TPH respectively shall be incorporated, in place of 1x93 TPH and the capacity of waste heat recovery boiler of 1x93 TPH and the quantities of Fly ash & bottom ash generation shall be incorporated for the enhanced capacities of power generation (8 MW to 20 MW), as per industry's replies Dt.29.04.2020 & 20.06.2020.

9. The industry shall obtain the Amendments to the EC Order Dt.24.02.2015 if any changes are required in the earlier Environment Clearance Order, at the earliest and a submit a copy to this office for necessary action.
10. The industry shall not wash the freighted vehicles within the industry premises, as the industry in its reply Lr.Dt.29.04.2020 informed no central work shop is proposed within the industry premises and no service waste water is envisaged from the industry.
11. The industry shall treat the domestic effluents to the Board's standards in STP and the treated waste water shall be utilized onland for irrigation within the premises.

Air Pollution:

7. 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 to 8 | Particulate Matter | 30.mg/Nm ³ |
| | SO ₂ ** | 100 mg/Nm ³ |
| | NOx | 600 mg/Nm ³ |
| | * The norms of SO ₂ & NOx shall be applicable to kiln only ** Assuming pyritic sulphur to the limestone is less than 0.25 % | |
| 9 | Particulate Matter | Boilers of captive power plant are not yet installed |

8. The industry shall provide concrete roads within the plant to avoid the fugitive dust emissions. Vacuum / pneumatic dust collection system shall be used for cleaning the internal roads. The compliance shall be followed with respect to production capacity of the plant and to submit timely report to the Regional Office, Guntur.
9. 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.
10. 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. The compliance status shall be reported to RO, Guntur.
11. 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.
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; NOx - 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.520 (E), dated 01.07.2003 under the Environment (Protection) Amendment Rules, 2003 and G.S.R.448(E), dated 12.07.2004 under the Environment (Protection) Second Amendment Rules, 2004. 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. The industry reported vide reply Dt.22.06.2020, the industry has provided cladding to the coal conveyor. In addition to that, the industry shall provide water sprinklers within coal yard by 02.08.2020.
15. The industry shall provide 3rd CAAQM station by 02.08.2020, in addition to the existing 2 CAAQM stations as per CFE Order, at representative location and connect 3 CAAQM stations to the CPCB/APPCB servers for transferring of CAAQM monitoring data continuously.
16. The industry reported vide reply Dt.22.06.2020, the online stack monitoring provision was made to Raw mill & Kiln, Cooler & Cement mill and are connected to APPCB website. The same shall be connected to the CPCB / APPCB servers. The industry shall carry out regular calibration of OCEMS systems by 02.08.2020.

General:

18. The industry shall maintain the log books for Effluents generated, treated and used for Green Belt development, Log Books for pollution control systems, Characteristics of ambient air, effluents and emissions, Hazardous/non hazardous solid waste generated, disposed and incinerated etc. and the same shall be made available to the inspecting officers of the Board.

19. The industry shall dispose solid waste (NON HAZARDOUS) as follows

| S. No | Name of the Solid Waste | Quantity of Coal Ash (when 100% Indian coal is used) | Quantity of Coal ash (when 100% imported coal is used) | Disposal |
|-------|-------------------------|--|--|---|
| 1 | Fly ash | 0.351 MTPA | 0.0576 MTPA | Shall be used in the cement plant. |
| 2 | Bottom Ash | 0.039 MTPA | 0.006 MTPA | Shall be used as bed material for boiler / for laying roads |

* The quantities include coal consumed in captive power plant.

21. The industry is introducing the plastic into the market along with their products which attracts Plastic Waste Management Rules, 2016 & its amendments thereof, the industry shall obtain registration and furnish EPR plan for collection of the plastic

- waste.
22. The industry shall dispose the plastic waste generated from the damaged and waste sacks of cement packaging unit as per Plastic Waste Management Rules, 2016 & its amendments thereof.
 23. The industry shall develop the balance greenbelt area in 87.25 Acres for meeting 33% greenbelt within 1 year i.e., by 02.07.2021 and the industry shall develop green cover with 10 m width of greenbelt in all around the plant area.
 24. The industry shall construct the compound wall at lime stone crusher and finish the compound wall at other places in the industry premises by 02.01.2020.
 25. The overall noise levels in and around the plant shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc., for noise generating sources.
 26. The industry shall comply with the conditions issued in earlier CFE Order, which are not covered in this Order.
 27. The industry shall comply with standards and directions issued by CPCB / MoEF&CC as and when notifications are issued.
 28. The industry shall comply with the standards stipulated for Air & Water, in case of non compliance, the industry is liable for Environmental Compensation, as per the Central Pollution Control Board (CPCB) assessing methodology of Environmental Compensation.
 29. The industry shall submit compliance report on the conditions mentioned in the consent order every six months i.e., on 1st of January and July of every year to the RO / ZO.

SCHEDULE – C

[See rule 6 (2)]

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

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
3. The person authorised shall not rent, lend, sell, transfer or otherwise transport the Hazardous and other wastes except what is permitted through this authorisation.
4. Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation 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 authorised 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 authorised person to take prior permission of the State Pollution Control Board to close down the facility.
8. An application for the renewal of an authorisation 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 authorised 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 authorised 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 authorised 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 authorised 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 authorised 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.

BANDLA SIVA SANKARA PRASAD, CHAIRMAN, O/o CHAIRMAN-APPCB

To

**M/s. Chettinad Cement Corporation Limited,
Sy.No 184, 185 etc., of Pedagarlpadu (V),
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