



TAMIL NADU POLLUTION CONTROL BOARD

Category of the Industry :

RED

CONSENT ORDER NO. 2008227928064 DATED: 06/03/2020.

PROCEEDINGS NO.T2/TNPCB/F.0014DGL/RL/DGL/A/2020 DATED: 06/03/2020

SUB: Tamil Nadu Pollution Control Board - RENEWAL OF CONSENT –M/s. CHETTINAD CEMENT CORPORATION PRIVATE LIMITED, CEMENT PLANT , S.F.No. 599 to 607, 610 to 619, 622 to 631, 641, 645, 646, 57, 65, 70, 77. Details Attached, KARIKALI village, Vendasandur Taluk and Dindigul District - Renewal of Consent for the operation of the plant and discharge of emissions under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987 (Central Act 14 of 1981) –Issued- Reg.

REF: 1. Broad Proc. No. T2/TNPCB/F.0014DGL/RL/DGL/A/2019 DATED: 25.06.2019
2. Your application for CTO – Renew on 19.08.2019 and resubmitted on 21.01.2020
3. JCEE's IR.No : F.0014DGL/RL/JCEE-M/DGL/2019 dated 29/08/2019.

RENEWAL OF CONSENT is hereby granted under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987 (Central Act 14 of 1981) (hereinafter referred to as “The Act”) and the rules and orders made there under to

Chairman

M/s.CHETTINAD CEMENT CORPORATION PRIVATE LIMITED, CEMENT PLANT,
S.F.No. 599 to 607, 610 to 619, 622 to 631, 641, 645, 646, 57, 65, 70, 77. Details Attached,
KARIKALI village,
Vendasandur Taluk,
Dindigul District.

Authorizing the occupier to operate the industrial plant in the Air Pollution Control Area as notified by the Government and to make discharge of emission from the stacks/chimneys.

This is subject to the provisions of the Act, the rules and the orders made there under and the terms and conditions incorporated under the Special and General conditions stipulated in the Consent Order issued earlier and subject to the special conditions annexed.

This RENEWAL OF CONSENT is valid for the period ending March 31, 2021

**For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai**

SPECIAL CONDITIONS

1. This renewal of consent is valid for operating the facility for the manufacture of products (Col. 2) at the rate (Col. 3) mentioned below. Any change in the products and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

| Sl. No. | Description | Quantity | Unit |
|-------------------------------------|---------------------------|----------|---------------------------|
| Product Details | | | |
| 1. | Cement (OPC, PPC and PSC) | 4.5 | MTPA (Million Tons/Annum) |
| By-Product Details | | | |
| 1. | NIL | 0 | NA |
| Intermediate Product Details | | | |
| 1. | NIL | 0 | NA |

2. This renewal of consent is valid for operating the facility with the below mentioned emission/noise sources along with the control measures and/or stack. Any change in the emission source/control measures/change in stack height has to be brought to the notice of the Board and fresh consent/Amendment has to be obtained.

| I Point source emission with stack : | | | | |
|---|--|---------------------------------------|--|------------------------------------|
| Stack No. | Point Emission Source | Air pollution Control measures | Stack height from Ground Level in m | Gaseous Discharge in Nm3/hr |
| 01 | Raw Mill-1/ Kiln -1 Baghouse | Bag Filters with stack | 115 | 540000-654800 |
| 02 | Coal mill -1 Bag House | Bag Filters with stack | 115 | 110000 |
| 03 | Clinker Cooler ESP - 1 | ESP with stack | 45 | 414000 |
| 04 | Cement Mill 1 Bag House | Bag Filters with stack | 66.2 | 456900 |
| 05 | Cement Mill-2 Bag House | Bag Filters with stack | 50 | 30000 |
| 06 | Raw Mill-2/ Kiln -2 Bag House | Bag Filters with stack | 128.5 | 704880-985680 |
| 07 | Coal Mill -2 Bag House | Bag Filters with stack | 140 | 113400 |
| 08 | Clinker Cooler ESP-2 | ESP with stack | 45 | 441000 |
| 09 | Cement Mill 3 Bag House | Bag Filters with stack | 70 | 796000 |
| 10 | Gen Set -1, 1500 KVA | Acoustic enclosures with stack | 8 | 5500 |
| 11 | Gen Set -2, 1500 KVA | Acoustic enclosures with stack | 8 | 5500 |
| 12 | Gen Set -3, 250 KVA | Acoustic enclosures with stack | 8 | 1850 |
| - | Iron Ore Bauxite Crusher | Bag Filter closed System | | - |
| - | Raw meal-1 silo top | Bag Filter closed System | | - |
| - | Raw mill-1 hoppers & Weigh feeder | Bag Filter closed System | | - |
| - | Raw mill-1 belt conveyors | Bag Filter closed System | | - |
| - | Raw mill-1 reject handling belt conveyor | Bag Filter closed System | | - |
| - | Raw mill-1 cyclone bottom airslide | Bag Filter closed System | | - |
| - | CF-1 silo feed elevator discharge | Bag Filter closed System | | - |
| - | CF-1 silo extraction | Bag Filter closed System | | - |
| - | Coal stacker-1 | Bag Filter closed System | | - |
| - | Coal reclaimer-1 | Bag Filter closed System | | - |
| - | Raw coal hopper & chain conveyor-1 | Bag Filter closed System | | - |
| - | Fine coal bin vent-1 | Bag Filter closed System | | - |
| - | Fine coal feeding vent-1 | Bag Filter closed System | | - |
| - | Special clinker silo vent | Bag Filter closed System | | - |
| - | Clinker silo-1 top | Bag Filter closed System | | - |

| | | | | |
|---|--|--------------------------|--|---|
| - | Clinker extract ion-1 | Wet scrubber with stack | | - |
| - | Cement mill- 1 hopper & weigh feeders | Bag Filter closed System | | - |
| - | Cement Mill feed conveyor & two way gate | Bag Filter closed System | | - |
| - | Cement Mill -1 reject handling | Bag Filter closed System | | - |
| - | Clinker silo-1 extract ion belt transfer tower | Bag Filter closed System | | - |
| - | Clinker Silo- 1 extract ion transfer tower | Wet scrubber with stack | | - |
| - | Cement mill 2 hopper & weigh feeder | Bag Filter closed System | | - |
| - | Cement Mill 2 reject handling system | Wet scrubber with stack | | - |
| - | Roller press venting | Bag Filter closed System | | - |
| - | Cement mill 1 & 2 re-circulation elevator vent | Bag Filter closed System | | - |
| - | Ball mill venting | Bag Filter closed System | | - |
| - | Cement mill 1& 2 Product transport & elevator bottom | Bag Filter closed System | | - |
| - | Cement mill 1 & 2 silo top vent | Bag Filter closed System | | - |
| - | Cement silo 1&2 top and elevator discharge | Bag Filter closed System | | - |
| - | Dry fly ash silo-1 top | Bag Filter closed System | | - |
| - | Dry fly ash extract ion bin-1 | Bag Filter closed System | | - |
| - | Fly ash transport airslide-1 | Bag Filter closed System | | - |
| - | Cement silo -1 extraction air slide | Bag Filter closed System | | - |
| - | Cement silo -3 extraction air slide & bin vent | Bag Filter closed System | | - |
| - | Packer-1 air slide & elevator bottom vent | Bag Filter closed System | | - |
| - | Packer-2 air slide & elevator bottom vent | Bag Filter closed System | | - |
| - | Packer -1 | Bag Filter closed System | | - |
| - | Packer -2 | Bag Filter closed System | | - |
| - | Packer -3 | Bag Filter closed System | | - |
| - | Location at crusher house | Bag Filter closed System | | - |
| - | Location at reject vibrating screen | Bag Filter closed System | | - |
| - | Location at product vibrating screen | Bag Filter closed System | | - |
| - | Raw mill-2 hoppers & weigh feeder | Bag Filter closed System | | - |
| - | Raw mill-2 belt conveyors | Bag Filter closed System | | - |

| | | | | |
|---|---|--------------------------|--|---|
| - | Raw mill -2 reject handling belt conveyor | Bag Filter closed System | | - |
| - | Raw mill-2 cyclone bottom air slide | Bag Filter closed System | | - |
| - | Raw meal - 2 silo top | Bag Filter closed System | | - |
| - | Kiln 2 feed bin de-dusting | Bag Filter closed System | | - |
| - | Raw meal 2 silo & Kiln 2 feed elevator | Bag Filter closed System | | - |
| - | Preheater 2 top (kiln feed elevator discharge) | Bag Filter closed System | | - |
| - | Cooler ESP-2 discharge | Bag Filter closed System | | - |
| - | Clinker -2 hopper | Bag Filter closed System | | - |
| - | Clinker 2 silo top | Bag Filter closed System | | - |
| - | Clinker 2 silo bottom pan conveyor discharge-1 | Bag Filter closed System | | - |
| - | Clinker 2 silo bottom pan conveyor discharge 2 | Bag Filter closed System | | - |
| - | Clinker 2 silo bottom pan conveyor discharge-3 | Bag Filter closed System | | - |
| - | Clinker 2 extract ion | Bag Filter closed System | | - |
| - | Raw coal hopper & chain conveyor -2 | Bag Filter closed System | | - |
| - | Fine coal bin vent-2 | Bag Filter closed System | | - |
| - | Fine coal feeding vent- 2 | Bag Filter closed System | | - |
| - | Fine coal vent - PC2 | Bag Filter closed System | | - |
| - | Coal stacker-2 | Bag Filter closed System | | - |
| - | Raw coal 2 transport belt conveyor(L1 2BCC) discharge | Bag Filter closed System | | - |
| - | Raw coal 2 transport belt conveyor(L1 2BCD) discharge | Bag Filter closed System | | - |
| - | Raw coal 2 transport belt conveyor(L12BC4) discharge | Bag Filter closed System | | - |
| - | Cement mill 3 clinker hopper & weigh feeders | Bag Filter closed System | | - |
| - | Cement mill 3 feed belt vent | Bag Filter closed System | | - |
| - | Cement mill 3 reject handling | Bag Filter closed System | | - |
| - | Cement mill 3 Bag house bottom air-slide vent | Bag Filter closed System | | - |
| - | Cement mill 3 silo elevator top vent | Bag Filter closed System | | - |
| - | Cement silo 4 top | Bag Filter closed System | | - |
| - | Cement silo 5 top | Bag Filter closed System | | - |

| | | | | |
|----------------|---|--------------------------|--|---|
| - | Cement silo 6 top | Bag Filter closed System | | - |
| - | Fly ash silo -2 top | Bag Filter closed System | | - |
| - | Fly ash silo-2 inside bin vent | Bag Filter closed System | | - |
| - | Fly ash bin 2 & elevator top vent | Bag Filter closed System | | - |
| - | Fly ash elevator bottom boot & air slide vent | Bag Filter closed System | | - |
| - | Cement silo 4 extraction bin vent | Bag Filter closed System | | - |
| - | Cement silo 5 extraction bin vent | Bag Filter closed System | | - |
| - | Cement silo 6 extraction bin vent | Bag Filter closed System | | - |
| - | Packer 4 air slide & elevator bottom vent | Bag Filter closed System | | - |
| - | Packer 5 air slide & elevator bottom vent | Bag Filter closed System | | - |
| - | Packer 6 air slide & elevator bottom vent | Bag Filter closed System | | - |
| - | Packer 4 | Bag Filter closed System | | - |
| - | Packer 4 Auxiliaries | Bag Filter closed System | | - |
| - | Packer 5 | Bag Filter closed System | | - |
| - | Packer 5 auxiliaries | Bag Filter closed System | | - |
| II | Fugitive/Noise emission : | | | |
| Sl. No. | Fugitive or Noise Emission sources | Type of emission | Control measures | |
| 1. | Internal Roads | Fugitive | Mechanical sweeping m/c & Paved concrete roads | |
| 2. | DG & Compressors | Noise | Acoustic enclosers | |
| 3. | Kiln1/ Raw mill 1 | Noise | Acoustic enclosers | |
| 4. | Kiln2 & Raw mill 2 | Noise | Acoustic enclosers | |
| 5. | Cement mill 1, 2 & 3 | Noise | Acoustic enclosers | |
| 6. | All raw materials unloading & loading areas | Fugitive | Water sprinkler system | |
| 7. | Coal storage & Handling | Fugitive | Closed shed, closed conveyors & water spray system | |
| 8. | Storage of Limestone | Fugitive | Water sprinkler system | |
| 9. | Storage of Clinker, Gypsum, Flyash & Bauxite | Fugitive | Silos & closed shed | |

Special Additional Conditions:

The unit shall install retrofit emission control device, with atleast 70% Particulate matter reduction efficiency on all DG sets with rated capacity more than 125 KVA installed within the industrial premises before 30.06.2020 or otherwise the unit should be shifting to gas based generators by employing new gas based generators. The retrofit emission control device should be tested from one of the five laboratories recognised by CPCB.

Additional Conditions:

1. The unit shall operate and maintain Air Pollution Control measures effectively and continuously so as to achieve the Ambient Air Quality / Emission standards/ANL prescribed by the Board.
2. The unit shall ensure the online connectivity with Care Air Centre of TNPCB, Chennai to provide proper quality data at all times. The unit shall continuously operate and maintain the online analyser effectively.
3. The unit shall comply with emission standards as prescribed in MOEF &CC notification dated 25.08.2014 and 09.05.2016.
4. The unit shall ensure that the particulate matter emission from all the process stacks (Raw Mill1/Kiln1, Raw Mill2/Kiln2, Coal mill 1, Coal Mill2, Cement Mill-1, Cement Mill-2, Clinker ESP-1, Clinker ESP-2) shall be less than 30mg/Nm³.
5. The unit shall ensure that calibration shall be done in frequent intervals to keep the analyser intact.
6. The unit shall send in advance to CAC, TNPC Board that testing is done on the day to avoid mis interpretation of exceedance and subsequent alert message receipt during injection of 4 to 20 milli amperes current value into the analyser.
7. The unit shall ensure that the noise generated by the unit shall adhere to the Ambient Noise Level Standards prescribed by the Board.
8. The unit shall adhere to the CPCB Guidelines on fugitive emission control vide PROBES/118/2007, dated 06.07.2007
9. The unit shall ensure that the coal/pet coke is stored in closed shed only and water used for coal wetting shall be collected and reused.
10. The internal Road pavement work, ear work, removed of settled dust shall be cleaned and road shall be paved.
11. The chute system in Lime stone stock pile shall be operated effectively to reduce the fall height of lime stone to avoid fugitive emission.
12. All internal roads shall be cleaned with road sweeper then and there and the house keeping should be done all the time effectively.
13. All bag filters shall be checked periodically and replaced so that the plant will be clean ways.
14. The fly ash from the unit own power plant and imported from power plant like MTPS and TTPS shall be stored in silo only.
15. The unit is permitted to use the following quantity of pet coke as feed stock or in the manufacturing process only
 1. Pet coke quantity/ month-----37,500 T/Month
 2. Pet coke quantity/ Annum-----4.5 lakh T/Annum
 3. Sources of Pet coke-----Imported (or) from refineries in India
 4. Also comply with the following conditions for import of Pet coke:
 - I. The industry is permitted to directly import pet coke and consignment shall be in the name of user industrial units for their own use only.
 - II. Import of pet coke for the purpose of trading shall not be permitted.
 - III. The Industry shall furnish opening and closing stock of imported Pet coke and consumption of the same to the TNPCB on a monthly basis.
 - IV. The Petcock shall be used in the cement Kiln only and it shall not be used for any other purpose.
16. The unit shall utilise /enhance the usage of Alternate Fuels and Raw materials (AFR such as Plastic wastes, Hazardous wastes) for Co- processing/Co-incineration in Cement Kiln so as to improve the Thermal Substitution Rate (TSR). Also the unit shall provide necessary infrastructure facilities such as feeding system, conveyor systems, etc., for co processing.
17. The unit shall furnish the commitment letter on making agreement with the local bodies as mentioned in the minutes of Thermal Substitution Rate (TSR) meeting dated 19/11/2019.
18. The unit shall explore the possibility of utilizing the ETP sludge in the cement kilns stored in all the 7 CETP premises in Karur District for co processing in the cement mill.
19. The unit shall continue to take necessary action for providing infrastructure facilities to achieve the TSR as 10% and shall complete the same within October 2020 to achieve 10% as reported.
20. The unit shall install additional 2 nos. of Continuous Ambient Air Quality Monitoring System (CAAQMS) stations in the receptors like public school, temple, Health Care Facility etc. to monitor common/criteria pollutants from the flue gases such as PM₁₀, PM_{2.5}, SO₂, NO_x in the radius 10 to 15 km and shall connect to Care Air Centre, TNPCB.
21. The unit shall continue to develop green belt with native species of trees to attenuate the Air/Noise pollution.
22. The unit shall provide and maintain Reverse Vending Machines' in Palani areas under CSR activities.
23. The unit shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.II dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
24. The unit shall not use any non woven bags for packing of cements.

**For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai**

To
Chairman,
M/s.CHETTINAD CEMENT CORPORATION PRIVATE LIMITED, CEMENT PLANT,
Chettinad Cement Corporation Private Limited,
4th floor, Chettiand Towers
603, Anna Salai,
Chennai - 600 006,
Pin: 600006

Copy to:

- 1.The Commissioner, VEDASANDUR-Panchayat Union, Vedasandur Taluk, Dindigul District .
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, DINDIGUL.
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Triuchirappalli.
4. File

** This consent order is computer generated by OCMMS of TNPCB and no signature is needed**