

F. No. J-11011/186/2008- IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi – 110 003

E-mail : pb.rastogi@nic.in
Telefax : 011: 2436 7668
Dated 25th August, 2008

To,

The President
M/s Chettinad Cement Corporation Ltd.
Kumararajah Muthiah Nagar
Puliyur Cement Factory Post – 639 114
District Karur, Tamilnadu.

E-mail : contact@chettinadmail.com / ensyscon@vsnl.net
Fax No. : 044-28291594 / 28291558.

Subject : Expansion of Cement Plant (1.20 MTPA to 1.70 MTPA) at Village Puliyur, Taluk & District Karur, T.N. by M/s. Chettinad Cement Corporation Ltd. - Environmental clearance reg.

Ref. : Your letter no. CCCL/Puliyur/EC/0108/3875 dated 4th January, 2008.

Sir,

Kindly refer your letter no. CCCL/Puliyur/EC/0108/3875 dated 4th January, 2008 alongwith project documents including Form I, draft TOR and Pre-feasibility Report and subsequent clarifications furnished vide communications dated 11th February, 2008 and 4th July, 2008 regarding above mentioned cement project.

2.0 The Ministry of Environment and Forests has examined the application. It is noted that the proposal is for the expansion of Cement Plant (1.20 MTPA to 1.70 MTPA) at Village Puliyur, Taluk & District Karur, T.N. has proposed. Expansion of the capacity is due to use of fly ash and slag to manufacture Pozzolana Portland Cement (PPC, 70 %) and Portland Slag Cement (PSC, 25 %). The total area of the plant is 31 ha. No national parks/wild life sanctuary/reserve forests are located within 10 km radius. Total cost of the expansion will be Rs. 40.00 Crores.

3.0 Electrostatic precipitators (ESPs) to Cooler, bag house to Kiln/Raw mill and bag filters to Coal mill, Cement mill etc. will be provided to control air emissions < 50 mg/m³. Total water requirement from bore wells will be 1,200 KLD and have applied for the same to the State Ground Water Board on 21st May, 2008. The liquid effluent from existing captive power plant (CPP) boiler blow down, cooling tower blow down and reverse osmosis (RO) plant rejects will be neutralized and utilized for green belt development. The dust collected from the various air pollution control equipments will be totally recycled in the process for cement manufacturing. ETP sludge from 8 CETPs in Karur area will also be used.

4.0 After considering the facts mentioned above and with due diligence, the Ministry of Environment and Forests hereby categorizes the project in category B-2 requiring no EIA/EMP and Public Hearing/Consultation and accords environmental clearance under the provisions of EIA Notification, 2006 subject to strict compliance to the following specific and general conditions:

A. SPECIFIC CONDITIONS:

- i) The stack emissions from all the sources shall not exceed 50 mg/Nm³. Electrostatic precipitators (ESPs) to Cooler, bag house to Kiln/Raw mill, bag filters to Coal mill and bag filters to Cement mill etc. shall be provided to control air emissions < 50 mg/m³. Monitoring of ambient air quality and stack emissions shall be carried out regularly in consultation with TNPCB and data submitted to the Ministry's Regional Office at Bangalore, CPCB and Tamil Nadu Pollution Control Board (TNPCB) regularly.
- ii) The fugitive emissions during loading and unloading shall be suitably controlled. The company shall install adequate dust collection and extraction system to control fugitive dust emissions. Fugitive emissions from raw material handling areas, loading/unloading points, transfer points, hoppers, storage silos, weigh feeders, grinding mill and packing machines shall be controlled by providing silos and covered sheds for storage of raw materials, fully covered conveyors for transportation of materials etc. Water sprinklers shall also be provided to control fugitive emissions.
- iii) Ambient air quality monitoring stations (AAQM) stations shall be set up as per statutory requirement in consultation with the TNPCB and data submitted to the Ministry's Regional Office at Bangalore, CPCB and TNPCB.
- iv) Total ground water requirement shall not exceed 1,200 KLD. The liquid effluent from the existing captive power plant (CPP) as boiler blow down, cooling tower blow down and reverse osmosis (RO) plant rejects shall be neutralized and treated and used for dust suppression and green belt development. No liquid effluent shall be generated and 'Zero' discharge shall be followed. Domestic effluent shall be treated in sewage treatment plant (STP) and utilized for green belt development.
- v) 'Permission' for the drawl of 1,200 KLD ground water from the State Ground Water Board / Central Ground Water Authority (SGWB/CGWA) shall be obtained.
- vi) Solid waste viz. fly ash and dust etc. from the air pollution control equipments (ESP, bag house, bag filters etc.) shall be properly recycled and reutilized in the process itself for cement manufacturing. As proposed, effluent treatment plant (ETP) sludge from 8 CETPs in Karur area shall be used in cement plant. No solid waste shall be disposed off outside the factory premises. The solid waste from sewage treatment plant (STP) shall be composted and used as manure for green belt. Waste oil shall be collected, stored and sold to authorized recyclers/reprocessors for further treatment and disposal.
- vii) A proposed, out of total 31 ha., green belt shall be developed in 11.6 ha (37.4%) to mitigate the effects of air emissions as per the CPCB guidelines in a time bound manner.
- viii) All the recommendations mentioned in the Corporate Responsibility for Environmental Protection (CREP) shall be followed and complied.
- ix) Other necessary statutory clearances from the concerned Departments including 'No Objection Certificate' from the Tamil Nadu Pollution Control Board (TNPCB) shall be obtained prior to commencement of construction and / or operation.

B. GENERAL CONDITIONS:

- i. The project authority shall adhere to the stipulations made by T.N. Pollution Control Board (TNPCB) and State Government.
- ii. No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.
- iii. The gaseous and particulate matter emissions from various units shall conform to the standards prescribed by the T. N. Pollution Control Board. Continuous on-line monitors for particulate emissions shall be installed in stacks. Interlocking facility shall be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit (s) is shut down automatically.
- iv. Cement grinding shall be carried out in closed clinker and will have a highly efficient bag filters to control air emissions from cement grinding mill below 50 mg/Nm³.
- v. Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the State authorities. Monitoring of ambient air quality and shall be carried out regularly in consultation with TNPCB and data submitted to the CPCB and TNPCB regularly. The instruments used for ambient air quality monitoring shall be calibrated time to time.
- vi. The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- vii. Rainwater harvesting measures shall be adopted. The company must also harvest the rainwater from the rooftops and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.
- viii. The company shall undertake eco-development measures including community welfare measures in the project area.
- ix. Proper house keeping and adequate occupational health programmes shall be taken up.
- x. A separate environmental management cell to carry out various management and monitoring functions shall be set up under the control of Senior Executive.
- xi. Adequate funds shall be earmarked towards total capital cost and recurring cost/annum for environmental pollution control measures. and used to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.
- xii. The Regional Office of this Ministry at Bangalore / CPCB / TNPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data alongwith statistical interpretation shall be submitted to them regularly.

- xiii. The Project Authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.
- xiv. The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the T.N. Pollution Control Board / Committee and may also be seen at Website of the Ministry of Environment and Forests at <http://envfor.nic.in>. This should be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office at Bangalore.


5.0 The Ministry or any other competent authority may stipulate any further condition(s) on receiving reports from the project authorities. The above conditions shall be monitored by the Regional Office of this Ministry located at Bangalore.

6.0 The Ministry may revoke or suspend the clearance if implementation of any of the above conditions is not satisfactory.

7.0 Any other conditions or alteration in the above conditions shall have to be implemented by the project authorities in a time bound manner.


8.0 Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.

9.0 The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 the Air (Prevention and Control of Pollution) Act, 1981 the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules.


(Dr. P. B. Rastogi)
Director

Copy to:

1. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110 032.
2. The Chairman, Tamil Nadu Pollution Control Board, 100, Anna Salai, Guindy, Chennai – 600 032, Tamil Nadu.
3. The Chief Conservator of Forests (Central), Regional Office (SZ), Kendriya Sadan, IVth Floor, E & F Wings, 7th Main Road, IInd Block, Koramangala, Bangalore- 560 034, Karnataka.
4. The Secretary (Environment), Govt. of Tamil Nadu, Fort. St. George, Chennai- 560 560, Tamil Nadu.
5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Guard File.
7. Monitoring File.
8. Record File.


(Dr. P. B. Rastogi)
Director