

F. No. J-11011/312/2006-IA II (I)  
**Government of India**  
**Ministry of Environment and Forests**  
**(IA Division)**

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

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Dated 26<sup>th</sup> July, 2007

To,

✓  
Managing Director  
M/s Calcom Cement India Ltd.  
75-C, Part Street, 6<sup>th</sup> Floor  
Kolkata – 700 016  
West Bengal

Fax No. 033 –22297876

**Sub: Integrated Composite Cement Plant (17.50 Lakh TPA OPC & 41.50 Lakh TPA PPC) at Pipalpukhuri, Lanka, Nagaon, Assam by M/s Calcom Cement India Ltd. - Environmental clearance reg.**

Sir,

This has reference to your letter no. nil dated 30<sup>th</sup> August, 2006 alongwith project documents including EIA/EMP, Questionnaire seeking environmental clearance and subsequent clarifications furnished vide communications dated 21<sup>st</sup> November, 2006 regarding the above mentioned cement project.

2.0 The Ministry of Environment and Forests has examined your application. It is noted that M/s Calcom Cement India Ltd. have propose to set up a green field cement plant at Pipalpukhuri, Lanka, Nagaon, Assam to manufacture 17.50 Lakh TPA OPC and 41.50 Lakh TPA PPC. The limestone will be sourced from AIDC & Saikia Mines and have applied for the environmental clearance to the Ministry on 30<sup>th</sup> August, 2006. The fly ash (2 MTPA) is proposed to be obtained from neighboring state and clinker (0.98 TPA) from other unit at Umrangshu. Besides this plant require 5,46,000 TPA and coal. Total land acquired is 114.00 ha. The total cost of the the project is estimated at Rs. 410.00 Crore.

3.0 Fugitive emissions will be controlled by installing dust collectors, atomized water spray system with the reclaimers, providing covered stockpile for clinker storage and gypsum, conveyer belts, storing fly ash in silos. Covered conveyer belts will be provided for handling of materials. ESP to clinker cooler, reverse air bag house to raw mill and kiln, bag filters to crusher vent stack, blending / storage sites, coal crusher, coal mill, cement mill and packing plant will also be provided to control air emissions. Total ground water requirement will be 2,100 KLD. No wastewater will be generated from process of cement manufacturing due to dry manufacturing process. No solid waste will be generated.

4.0 Public hearing meeting was held on 12<sup>th</sup> April, 2006. 'No Objection Certificate' has been accorded by the Assam Pollution Control Board, Assam vide letter no. WB/TE-180/05-06/7-A/226 dated 4<sup>th</sup> May, 2006.

5.0 The Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14<sup>th</sup> September, 2006 subject to strict compliance to the following specific and general conditions:

**A. Specific Conditions :**

- i. The gaseous and particulate matter emissions from various units should conform to the standards prescribed by the State Pollution Control Board. At no time, the particulate emissions from the cement plant shall exceed 100 mg/Nm<sup>3</sup>. Continuous on-line monitors for particulate emissions, SO<sub>2</sub> and NO<sub>x</sub> in Raw/kiln mill, clinker cooler, coal mill, cement mill etc. shall be provided. Interlocking facility shall be provided between pollution control equipments and the process operation so that in the event of the pollution control equipment not working, the respective unit (s) is shut down automatically.
- ii. Ambient air quality shall be monitored at different locations in consultation with Assam Pollution Control Board (APCB) and must not exceed the standards stipulated under EPA or by the State Authorities and report submitted to the APCB quarterly and to the Ministry's Regional Office at Shillong half-yearly.
- iii. Electrostatic precipitators (ESP) shall be provided to clinker cooler, reverse air bag house to raw mill and kiln, bag filters to crusher vent stack, blending / storage sites, coal crusher, coal mill, cement mill and packing plant to control air emissions. The dust collected from the pollution control equipments shall be recycled back into the process. Storage of raw materials viz. lime stone, coal, clinker shall be in closed roof sheds covered stockpiles.
- iv. The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points. Dust collectors shall be provided at material transfer points. All the roads shall be concreted. Atomized water spray system shall be installed with the reclaimer. Covered stockpile shall be provided for clinker storage and gypsum.
- v. Total water requirement shall not exceed 2,100 KLD. No effluent shall be discharged from the process outside the premises and all the treated wastewater shall be utilized for green belt development and other plant related activities. Domestic wastewater generated shall be disposed off into soak pit via septic tank.
- vi. The company must harvest surface as well as rainwater from the roof tops of the buildings proposed in the expansion project 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.
- vii. Green belt shall be developed in and around the expansion project in at least 33 % of the area as per the CPCB guidelines in consultation with the local DFO.
- viii. Solid waste generated in the form of dust collected from various control equipments shall be 100 % recycled and reutilized in the process itself. Treated STP sludge shall be used for green belt development. Oil and oil emulsions will be sold to authorized dealers.
- ix. The company shall undertake eco-development measures including community welfare measures in the project area.

- x. The company shall follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environmental Protection (CREP).
- xi. Prior environmental clearance for limestone mines viz. AIDC and Saikia Mines shall be obtained from the Ministry of Environment and Forests.

**B. General Conditions :**

- i. The project authority must adhere to the stipulations made by Assam Pollution Control Board (A PCB) and State Government.
- ii. No further expansion or modification of the plant should be carried out without prior approval of this Ministry.
- iii. At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of SPM, SO<sub>2</sub> and NO<sub>x</sub> are anticipated in consultation with the APCB. Data on ambient air quality and stack emissions should be regularly submitted to this Ministry including its Regional Office at Shillong once in six months.
- iv. Industrial wastewater should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19<sup>th</sup> May, 1993 and 31<sup>st</sup> December, 1993 or as amended from time to time. The treated wastewater should be utilized for plantation purpose.
- v. The overall noise levels in and around the plant area should 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 should conform to the standards prescribed under Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- vi. Proper house keeping and adequate occupational health programmes must be taken up. All the persons working in the sensitive areas shall wear protective covers. Occupational Health Surveillance programme shall be done on a regular basis and records maintained. The programme must include lung function and sputum analysis tests once in six months.
- vii. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP.
- viii. A separate environmental management cell with full fledged laboratory facilities to carry out various management and monitoring functions should be set up under the control of Senior Executive.
- ix. As proposed in the EIA/EMP, Rs. 50.00 Crores and Rs. 3.50 Crores earmarked towards capital cost and recurring cost / annum for environmental pollution control measures shall be judiciously utilized for the implementation of 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 purposes.
- x. The Regional Office of this Ministry at Shillong / Central Pollution Control Board / Assam Pollution Control Board shall monitor the stipulated conditions. A six monthly compliance

report and the monitored data alongwith statistical interpretation shall be submitted to them regularly.

- xi. 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.
- xii. The Project Proponent should inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the Assam 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 should be forwarded to the Regional office.

6.0 The Ministry or any 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 Shillong.

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

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

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)**  
**Additional Director**

Copy to :-

1. Chairman, Assam Pollution Control Board, Bahunimatram, Assam, Guwahati.
2. Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 110032.
3. The Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office (Northeast Eastern Regional Office, Uplands Road, Laitumkhrah, Shillong - , 793003, Meghalaya.
4. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhawan, CGO Complex, New Delhi.
5. Guard File.
6. Monitoring File.
7. Record File.



**(Dr. P. B. Rastogi)**  
**Additional Director**