

F. No. J-11011/608/2009- IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

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Dated: July 22, 2010

To,

M/s Topcem India,
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Assam.

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**Subject: Proposed Cement Grinding Unit (OPC/PPC, 0.66 MTPA) at P.O. Gauripur,
District Kamrup Rural, Assam by M/s Topcem India Limited –
Environmental Clearance reg.**

Sir,

This has reference to your letter no. TI/SL/09-10/005 dated 15th March, 2010 along with copy of final EIA/EMP report seeking environment clearance under the provisions of EIA Notification, 2006.

2. The Ministry of Environment and Forests has examined the proposal. It is noted that the proposal of M/s Topcem India Limited is for the proposed Cement Grinding Unit (OPC/PPC, 0.66 MTPA) in District Kamrup Rural, Assam. Total land acquired for the project is 20 ha. No R & R is involved. Total cost of the project is Rs. 135.20 Crores. Rs. 0.95 Crores and Rs. 0.10 Crores has been earmarked towards total capital cost and recurring cost / annum for environmental pollution control measures. No National Parks/Wildlife sanctuary/reserve forest is located within 10 km radius of the project. A close circuit ball mill will be installed for grinding PPC and OPC. Cooling tower will be provided for cooling the machine. Reverse pulse jet type bag filters will be provided to clinker crusher and discharge tube / feed hopper, cement blending silo / packing house to control particulate emissions within 50 mg/Nm³. Twin cyclone separator followed by reverse pulse jet type filter will be provided to control the particulate emissions within the prescribed standards. Fugitive emissions will be minimized by providing water sprinklers. Roads will be concreted or tar topped. Total ground water requirement will be 50 m³/day. There will be no waste water generation due to process. Service water will be passed through oil separator to remove oil content in the effluent. Domestic

effluent will be treated in sewage treatment plant. The treated effluent will be used for dust suppression and green belt development. No effluent will be discharged outside the premises and 'Zero' discharge will be adopted. Sewage sludge will be used as manure for plantation. Spent oil will be sold to authorized recyclers / re-processors. Green belt will be developed in 66,000 sq. m. (33%) of total plant area. Proper acoustic barriers will be provided to noise generating equipment. Power (5 MVA) will be sourced from Assam State Electricity Board. A D.G. Set (500 KVA) will be installed for emergency purpose.

3. The cement grinding units are listed as Category 'B' at Sl. No. 3 (b) of the Schedule of the EIA notification 2006 and appraised at State level Impact Assessment Authority (SEIAA)/State Environment Appraisal Committee (SEAC). Since, SEIAA/SEAC for Assam has not been constituted; proposal was appraised by the EAC at the Ministry level.

4. The proposal was considered by the Expert Appraisal Committee -1 (Industry) in its 11th meeting held during, 24th -26 June, 2010. The Committee recommended the proposal for environmental clearance subject to stipulation of specific conditions along with other environmental conditions. Public hearing was exempted as the project has been categorized as category 'B2'

5. Based on the information submitted by you, presentation made by you and your consultant, M/s En-vision Enviro Engineers Ltd., Surat, the Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14th September 2006 subject to strict compliance of the following Specific and General conditions:

A. SPECIFIC CONDITIONS :

- i. Continuous stack monitoring facilities to monitor gaseous emissions from all the stacks should be provided. Particulate emissions shall be controlled within 50 mg/Nm³ by installing adequate air pollution control system viz. Bag filters and stacks of adequate height etc. Data on ambient air, fugitive and stack emissions shall be submitted to the Ministry's Regional Office at Shillong, Assam State Pollution Control Board (ASPCB) and CPCB regularly.
- ii. The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 should be followed.
- iii. Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines/Code of Practice issued by the CPCB should be followed.

- iv. The company should install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points, raw mill handling (unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas etc. All the raw material stock piles should be covered. A closed clinker stockpile system shall be provided. All conveyers should be covered with GI sheets. Covered sheds for storage of raw materials and fully covered conveyers for transportation of materials should be provided besides coal, cement, fly ash and clinker should be stored in silos. Pneumatic system shall be used for fly ash handling.
- v. Asphaltting/concreting of roads and water spray all around the stockyard and loading/unloading areas in the unit shall be carried out to control fugitive emissions. Regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of SPM and RSPM such as haul road, loading and unloading points, transfer points and other vulnerable areas. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
- vi. Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land. All the raw materials including fly ash shall be transported in the closed containers only and shall not be overloaded. Vehicular emissions shall be regularly monitored.
- vii. Total water requirement for grinding unit from bore wells shall not exceed 50 m³/day. All the treated wastewater shall be recycled and reused in the process and/or for dust suppression and green belt development and other plant related activities etc. No process wastewater shall be discharged outside the factory premises and 'zero' discharge should be adopted.
- viii. Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir should be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.
- ix. All the bag filter dust, raw meal dust, coal dust, clinker dust and cement dust from pollution control devices should be recycled and reused in the process used for cement manufacturing. Spent oil and batteries should be sold to authorized recyclers / re-processors only.
- x. Green belt shall be developed in an area of 6.6 ha. in and around the cement grinding unit as per the CPCB guidelines to mitigate the effects of air emissions in consultation with local DFO.
- xi. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Cement plants shall be implemented.

- xii. Risk and Disaster Management Plan along with the mitigation measures shall be prepared and a copy submitted to the Ministry's Regional Office at Shillong, ASPCB and CPCB within 3 months of issue of environment clearance letter.
- xiii. At least 5 % of the total cost of the project should be earmarked towards the corporate social responsibility and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Shillong. Implementation of such program should be ensured accordingly in a time bound manner.
- xiv. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the Assam State Pollution Control Board and the State Government.
- ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.
- iii. The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The State Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.
- iv. At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of PM₁₀, SO₂ and NO_x are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Shillong and the SPCB/CPCB once in six months.
- v. Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.

- 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 should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).
- vii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- viii. The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.
- ix. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.
- x. Requisite amount of funds shall be earmarked for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Shilong. The funds so provided shall not be diverted for any other purpose.
- xi. A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.
- xii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF at Shilong. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM10, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.