

F. No. J-11011/287/2010-IA-II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

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Dated: 31st October, 2011

To,

The Director,
M/s ECO Cement Limited
72, Jawahar Nagar Extension
Bhelpur, Varanasi- 221 010

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Sub: Proposed Cement Grinding Unit (1.0 MTPA) at Village Mahmoodganj, Durgauti, Dist- Bhabua, Bihar by M/s. Eco Cement Limited - regarding Environmental Clearance

Sir,

This has reference to your letter no. ECO/MoEF/EC/11-12/16 dated 12.04.2011 received in the Ministry on 23.05.2011 along with a copy of EIA/EMP reports seeking environmental clearance under the provisions of EIA Notification, 2006.

2. The Ministry of Environment and Forests has examined your application. It is noted that M/s. Eco Cement Limited have proposed for Cement Grinding Unit (1.0 MTPA) at Village Mahmoodganj, Durgauti, District Bhabua, Bihar. Total proposed project area is 19.53 acres which is already acquired and green belt will be developed in 7.0 acres of plant area. There is no national park/wild life sanctuary/reserve forest within 10 km radius of the project site. Clinker-6,50,000 TPA, Fly Ash- 3,00,000 TPA and Gypsum- 50,000 TPA are the major raw materials used in the plant process Total cost of the project is Rs. 100.0 Crores. Rs. 5.6 Crores and Rs. 0.85 Crores will be earmarked towards capital cost and recurring cost for environmental pollution control measures.

3. Air borne dust at all transfer points will be extracted through dust extraction system to the bag filters. All the belt conveyers will be covered and it will be connected to Bag Filter to control the particulate emissions. The vents of the hoppers will be connected to dust extraction system. All the air slides will be closed type and will be connected to Bag Filter. The bucket elevator and vents of silo will be connected to Bag Filter. The packing machine will be equipped with dust extraction arrangement. The dust will be captured in bag filters. The internal roads will be black topped. Manual sweeping/vacuum sweeping will be carried out regularly followed by water sprinkling.

4. Water requirement of 200m³/day will be met from the ground water source. There will be no waste water generation from the process. Cooling water will be completely recycled. Cooling water contaminated with oil and grease from cooling of motors and pumps will be treated in Oil & Grease Trap followed by Settling Tank and will be re-used for dust-suppression. Soft water regeneration effluent will be treated in settling tank and re-used for dust suppression. The unit will adopt zero discharge concept. Domestic effluent will be treated in STP and treated effluent from STP will be used for green belt.

5. There will be no process waste generated from the cement plant. All the dust (22,000 TPA) generated from APC devices will be recycled back for cement manufacturing. Used Oil

and used lubricants (600 lit/year) would be collected in closed drums and will be sold to authorized reprocessing units. Sludge (0.4 TPA) from STP will be used as manure for green belt development. The kitchen waste will be vermin composted and used as manure for green belt development.

6. Ear muffs/ear plugs will be provided to workers working in high noise prone areas. Power requirement of 6.3 MW will be sourced from BSEB.

7. The Cement Grinding Units are listed at S.No. 3 (b) under Category 'B' of the schedule of EIA Notification, 2006. The proposal was considered by the Expert Appraisal Committee-1 (Industry) in its 25th meeting held during 29th - 30th June, 2011. The Committee recommended the proposal for environmental clearance subject to stipulation of specific conditions along with other environmental conditions. The proposal was exempted from public hearing by categorizing in B2 category due to use of energy efficient technology, no clinker manufacturing at the proposed site, no sensitive area within 10 km. radius, 'zero' effluent discharge and utilization of all the solid waste in the process itself and utilization of fly ash etc.

8. Based on the information submitted by you, presentation made by you and consultant, M/s Visiontek Consultancy Services Pvt. Ltd., Bhubaneswar, 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. 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 Bhubaneswar, SPCB 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 shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points, raw meal 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 shall be provided besides cement, fly ash and clinker shall 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 cement plant 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 PM 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 should be transported in the closed containers only and should not be overloaded. Vehicular emissions should be regularly monitored.
- vii. Total ground water requirement for the cement plant shall not exceed 200 m³/day and necessary permission for the drawl of water shall be obtained from the Competent Authority. All the treated wastewater should 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 shall 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, 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 / reprocessors only.
- x. Green belt shall be developed in at least 33 % area in and around the cement plant as per the CPCB guidelines to mitigate the effects of air emissions in consultation with local DFO. Green belt development shall be started within 3 months after obtaining EC and completed within 3 years or before commissioning of the plant whichever is earlier.
- xi. At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on locals need and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at at Bhubaneswar. Implementation of such program should be ensured accordingly in a time bound manner.
- xii. The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, 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.

A. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the Bihar 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 Pollution Control 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 should 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 Bhubaneswar 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 shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).
- vii. Occupational health surveillance of the workers should 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. As proposed, Rs 5.6 lakhs and Rs. 0.85 Crores shall be earmarked towards capital cost and recurring cost/annum 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 Bhubaneswar. 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 Bhubaneswar. 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,

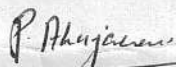
indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

- xiii. The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar / CPCB / SPCB shall monitor the stipulated conditions.
- xiv. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company alongwith the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEF at Bhubaneswar by e-mail.
- xv. 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 SPCB and may also be seen at Website of the Ministry of Environment and Forests at <http://envfor.nic.in>. This shall 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 at Bhubaneswar.
- xvi. 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.

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

10. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

11. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules


(Dr. P.L. Ahujarai)
Scientist -F

Copy to:

1. The Secretary, State Department of Environment, Government of Bihar, Mantralaya, Patna.
2. The Chairman, Centre for Environment & Nature Conservation (CENC), Department of Zoology, Patna University, Patna, Bihar.
3. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
4. The Chairman, Bihar State Pollution Control Board, Beltron Bhavan, 2nd Floor, Lal Bahadur Shastri Nagar, Patna- 800023
5. The Chief Conservator of Forests, Regional Office (EZ), Ministry of Environment and Forests A-3, Chandrashekharapur, Bhubaneswar ? 751 023, Orissa
6. Guard file / Record file / Monitoring file.

(Dr. P.L. Ahujarai)
Scientist 'F'