

F. No. J-11011/762/2007- 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
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Dated 3rd June, 2008

To,

**M/s Hills Cement Company Ltd. (HCCL)
1st Floor, H.M. Towers, S. C. Goswami Road
Pan Bazaar, Guwahati – 781 001
Assam**

**E-mail : singhalashok@gmail.com / aindia@gmail.com / nandini@hccl.in /
pccipltd@yahoo.com ;
Fax No.: 0361-2543753;**

Subject : Integrated Cement Plant (Cement 3,000 TPD & Clinker 2,500 TPD) and coal based Captive Thermal Power Plant (10 MW) near 116 Km Stone, NH-44, Village Mynkre, P.O. Kheliehrat, District Jaintia Hills, Meghalaya by M/s Hills Cement Company Ltd. (HCCL) – Environment clearance reg.

Ref. : Your letter no. nil dated 17th July, 2007.

Sir,

This has reference to your letter no. nil dated 17th July, 2007 alongwith project documents including Form I, Questionnaire, EIA/EMP and other documents seeking environmental clearance and subsequent letters dated 10th December, 2007, 19th December, 2007, 2nd January, 2009 and 14th March, 2009 regarding the above mentioned cement project

2.0 The Ministry of Environment and Forests has examined the application. It is noted that M/s Hills Cement Company Ltd. (HCCL) have proposed for the Integrated Cement Plant (Cement 3,000 TPD & Clinker 2,500 TPD) and coal based Captive Thermal Power Plant (10 MW) near 116 km Stone, NH-44, Village Mynkre, District P.O. Kheliehrat, Jaintia Hills, Meghalaya. Total land available is 55.54 ha. No forest land is involved. No National Park/Wildlife sanctuary/Reserve Forest is located within 10 Km radius of the project. No rehabilitation and resettlement is involved. Total cost of the project is Rs. 360.00 Crores. The annual cement production will be 1.0 Million TPA and proposed production capacity will be achieved in two phases of 1,500 TPD. AFBC boiler will be provided to coal based Captive Power Plant (15 MW).

3.0 Coal for cement production and coal and coal fines for power

generation will be sourced from nearby coalmines. Crushed limestone will be stored in stockpile. Manufacturing process of cement plant will involve mining & crushing of limestone, clay and additives; grinding and blending of raw meal, crushing and grinding of coal, feeding of raw meal to rotary kiln through pre-heater system; cooling the clinker, grinding the clinker & gypsum to produce Ordinary Portland Cement (OPC).

4.0 Electrostatic precipitator (ESP), bag filters, air jet type bag filters reserve jet bag filter, cyclones and dust suppression system with water spraying will be provided to control air emissions. Total water requirement from the underground natural springs will be 300 m³/day. All the treated effluent will be used for horticulture, dust suppression and ash conditioning. 'Zero' discharge will be adopted. All the solid waste will be recycled and reused in the cement plant itself. Fly ash from CPP will be further utilization in cement manufacturing. Bottom ash will be used as bed material in the AFBC boiler. Sewage sludge will be used as manure.

5.0 Public Hearing / Public Consultation meeting was conducted on 19th September, 2008.

6.0. The Ministry of Environment and Forests hereby accord environmental clearance to the above project under the provisions of EI/ Notification dated 14th September, 2006 subject to strict compliance to the following specific and general conditions:

A. Specific Conditions :

The company should obtain necessary clearances / approval from the concerned Departments i.e. Indian Bureau of Mines, State Government Ministry of Environment and Forests etc. for the linked mining component before undertaking any construction activity at the project site.

Continuous stack monitoring facilities to monitor gaseous emissions from all the stacks shall be provided. After expansion, limit of SPM shall be controlled within 50 mg/Nm³ by installing adequate air pollution control system. Electrostatic precipitators (ESP) to clinker cooler and power plant and bag house to raw mill and kiln, coal mill, cement mill, packing plant primary and secondary crusher shall be provided to control emission within 50 mg/Nm³. Adequate chimney height as per CPCB guidelines shall be provided to AFBC boiler to control emissions. 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 is shut down automatically.

Secondary fugitive emissions shall be controlled and shall be within the prescribed limits and regularly monitored. Guidelines / Code of Practice issued by the CPCB in this regard shall be followed.

The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points. Bag filters shall be installed at all material transfer points, material conveying points, cement silo and packing area. Air jet type bag filters shall be provided to raw material handling area and conveyors to control fugitive emissions. Reserve jet bag filter shall be provided to raw mill-I & II, blending silos, coal and cement grinding mill etc. Cyclones and bag filters shall be provided at crushing areas. The material shall be transported in covered chutes or trucks. Dust suppression with water spraying shall be provided to control secondary fugitive emissions.

Data on ambient air quality, stack emissions and fugitive emissions shall be uploaded on the Company's website and also regularly submitted online to the Ministry's Regional Office at Shillong, Meghalaya Pollution Control Board (MPCB) and Central Pollution Control Board (CPCB) as well as hard copy once in six months. Data on SPM, SO_2 and NO_x shall also be displayed prominently outside the premises at the appropriate place for the information of general public.

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 should not be overloaded. Vehicular emissions shall be regularly monitored.

Total water requirement from underground natural springs should not exceed 300 m^3/day . All the effluent from DM plant shall be properly treated in the neutralization pit and all the treated wastewater along with boiler blow down shall be recycled and reused in the process and/or for ash conditioning, dust suppression, green belt development and other plant related activities etc. No process wastewater shall be discharged outside the factory premises and 'zero' discharge shall be adopted. Domestic treated water shall be treated in Sewage Treatment Plant (STP) and used for the green belt development. No wastewater shall be discharged into any stream/river and 'Zero' discharge shall be adopted.

Prior permission for the drawl of 1,500 m^3/day water shall be obtained from concerned Department.

All the bag filter dust, raw material dust, coal dust, clinker dust and cement

From pollution control devices shall be recycled and reused in the process and used for cement manufacturing. Fly ash from CPP shall be collected in various hoppers of dust collection system and transported pneumatically to silos for further utilization in cement manufacturing. Bottom ash shall be used as bed material in the AFBC boiler. Municipal Solid waste from plant and colony shall be segregated and separated as combustible and non-combustible wastes. Combustible wastes alongwith spent oil shall be used as fuel in the kiln. Non-combustible wastes shall be land filled for composting and non-compostable waste shall be sold to authorized recycling vendors. Sewage sludge shall be used as manure. Spent oil and batteries shall be sold to authorized recyclers / reprocessors only.

All the fly ash shall be utilized as per Fly Ash Notification, 1992 subsequently amended in 2003. Efforts shall be made to use fly ash maximum in manufacturing Pozzolona Portland Cement (PPC).

Efforts shall be made to use low grade lime, more fly ash and solid waste in the cement manufacturing.

An effort shall be made to use of high calorific hazardous waste in the cement kiln and necessary provision shall be made accordingly.

As proposed, green belt shall be developed in at least 20 ha. (40 %) out of 55.54 ha. area in and around the cement plant as per the CPCB guideline to mitigate the effects of air emissions in consultation with local DFO.

All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Cement plants shall be implemented.

The company shall provide housing for 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.

All the issues raised during the Public Hearing / Public Consultation meeting and commitments made shall be satisfactorily implemented.

General Conditions :

The project authority must adhere to the stipulations made by Meghalaya State Pollution Control Board and State Government.

No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.

At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO₂ and NO_x are anticipated in consultation with the Meghalaya State Pollution Control Board. Data on ambient air quality and stack emissions shall be regularly submitted to this Ministry including its Regional Office at Shillong and Meghalaya State Pollution Control Board once in six months.

Industrial waste water shall be properly collected and 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.

The overall noise levels in and around the plant area shall be kept 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).

- vi. Proper housekeeping and adequate occupational health programmes must be taken up. 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 company shall harvest the rainwater from the roof top and storm water drains to recharge the ground water.
- viii. The company shall undertake eco-development measure including community welfare measures in the project area.
- ix. The project proponent shall also comply with all the environmental protection measures and safeguard recommended in the EIA/EMP.
- x. A separate environmental management cell with full fledger laboratory facilities 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 capital cost and recurring cost/annum for the environmental protection measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government and submit implementation schedule for all the conditions stipulated herein to the Regional Office of this Ministry at Shillong / Central Pollution Control Board / Meghalaya State Pollution Control Board. The funds so provided shall not be diverted for any other purposes.
- xii. The Regional Office of this Ministry at Shillong / Central Pollution Control Board / Meghalaya Pollution Control Board will 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 commencing the land development work.
- xiv. The Project Proponent Meghalaya inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State 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 Shillong.

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

8.0 The Ministry may revoke or suspend the clearance

implementation of any of the above conditions is not satisfactory.

9.0. 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.

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

11.0 The above conditions will 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. Chairman, Meghalaya State Pollution Control Board, Arden Phase-III, Lumpyhnggad, Shillong - 793 014, Meghalaya.
2. Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD cum-Office Complex, East Arjun Nagar, Delhi - 110032.
3. Chief Conservator of Forests (Central), Ministry of Environment and Forests, (North-eastern Region, Upland Road, Laitumkhrat Shillong - 793 003, Meghalaya.
4. Adviser IAI (I), Ministry of Environment and Forests, Paryavara Bhawan, CGO Complex, New Delhi.
5. Monitoring Cell, Ministry of Environment and Forests, Paryavara Bhawan, CGO Complex, New Delhi.
6. Guard File.
7. Monitoring File.
8. Record File.

(Dr. P.
B. Rastogi)
Director