

F. No. J-11011/190/2007- 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
Telefax : 011-24367668
Dated 19th June, 2008

MS.
18/7/07
To,
The Director
M/s Adhunik Cements Ltd.
Landsdowne Towers
2/1A, Sarat Bose Road
Kolkata - 700 020, West Bengal

Fax No. : 033-2289-0285.

Subject : Cement (1.5 MTPA), Clinker (1.3 MTPA) alongwith Captive Power Plant (20 MW) at Thangskai, Jaintia Hills, Meghalaya by M/s Adhunik Cements Ltd. - Environmental clearance reg.

Sir,

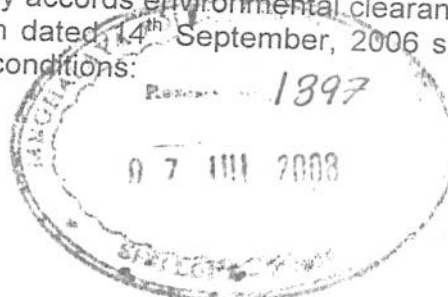
This has reference to your letter no. ACL-AG/MOEF/REIA/Plant/2007 dated 17th February, 2007 alongwith project documents including Form I, Questionnaire, EIA/EMP and other documents seeking environmental clearance and subsequent letter dated 30th January, 2008 regarding the above mentioned cement project.

2.0 The Ministry of Environment and Forests has examined the application. It is noted that M/s Adhunik Cements Ltd. have proposed to set up a Cement (1.5 MTPA), Clinker (1.3 MTPA) alongwith Captive Power Plant (20 MW) at Thangskai, Jaintia Hills, Meghalaya. No captive mine is available and will buy limestone from the market. No rehabilitation and resettlement (R & R) and forest land is involved. Total project area is 50 ha. No sensitive areas are located within 10 Km radius of the project. Total cost of the project is Rs. 417.00 Crores.

3.0 State-of-the Art Pre-calciner Technology will be used from manufacturing cement. Electrostatic precipitator (ESP) to cooler, glass bag house to raw mill/kiln and cement mills, bag filters to material handling areas will be provided to control air emissions within 50 mg/Nm³. ESP will also be provided to captive power plant to control air emissions within 100 mg/Nm³. Total water requirement from the Lubha River will be 2,500 m³/day and have applied for the permission from Water Resources Department. Process water will be recycled and reused. Domestic treated water will be used for the green belt development.

4.0 Public Hearing / Public Consultation meeting was conducted on 30th November, 2007.

5.0 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 to the following specific and general conditions:



A. Specific Conditions :

- i. Continuous stack monitoring facilities to monitor gaseous emissions from all the stacks shall be provided and limit of SPM from the cement plant shall be controlled within 50 mg/Nm^3 by installing adequate air pollution control system viz. Electrostatic precipitator (ESP) to cooler and captive power plant, glass bag house to raw mill/kiln and cement mills, bag filters to material handling areas. At no time, the particulate emissions from the cement and captive power plant shall exceed 50 mg/Nm^3 and 100 mg/Nm^3 respectively. 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.
- ii. Secondary fugitive emissions shall be controlled within the prescribed limits and regularly monitored. Guidelines / Code of Practice issued by the CPCB in this regard shall be followed.
- iii. The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points. Storage of raw material shall be in closed roof sheds. Water sprinkling arrangement shall be made in the raw material stock yard and cement bag loading areas.
- iv. Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land.
- v. Total water requirement from Lubha River shall not exceed $2,500 \text{ m}^3/\text{day}$. All the process effluent shall be properly treated and treated wastewater shall be recycled and reused for spraying for cooling the mills, dust suppression and green belt development. Domestic treated water shall be treated and used for the green belt development. No wastewater shall be discharged into any stream/river without proper treatment and shall meet the SPCB/CPCB/Ministry's norms as mentioned in the E (P) Act.
- vi. Prior permission for the drawl of $2,500 \text{ m}^3/\text{day}$ from Lubha River shall be obtained from the concerned department.
- vii. The dust collected from the pollution control equipment shall be recycled back into the process and reutilized.
- viii. Fly ash shall be utilized as per Fly ash Notification, 1999 subsequently amended in 2003.
- ix. An effort shall be made to use of high calorific hazardous waste in the cement kiln and necessary provisions shall be made accordingly.
- x. Green belt shall be developed in 17 ha. (33 %) out of total 50 ha. in and around the plant as per the CPCB guidelines in consultation with the local DFO.
- xi. All the recommendations of the Corporate Responsibility for Environment Protection (CREP) shall be strictly followed.

B. General Conditions :

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

- ii. No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.
- iii. 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.
- iv. 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.
- v. 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).
- 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 tops and storm water drains to recharge the ground water.
- viii. The company shall undertake eco-development measures including community welfare measures in the project area.
- ix. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP.
- x. A separate environmental management cell with full fledged laboratory facilities to carry out various management and monitoring functions shall be set up under the control of Senior Executive.
- xi. As proposed in the EIA/EMP, Project authorities shall provide Rs. 40.00 Crores towards capital cost for environmental pollution control measures 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 of 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.

6.0 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.

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

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


10.0 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, Lumpyhgngad, 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, Laitumkhrah, Shillong - 793 003, Meghalaya.
4. Adviser IAI (I), Ministry of Environment and Forests, Paryavaran Bhawan, CGO Complex, New Delhi.
5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhawan, CGO Complex, New Delhi.
6. Guard File.
7. Monitoring File.
8. Record File.



(Dr. P. B. Rastogi)
Director