

Mr. V. K. Shrivastava  
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Government of India  
Ministry of Environment and Forests

Mr. Ajai Prakash/Mr. M.K. Gukh  
for necessary action  
Be

F. No. J-11011/386/2010-IA-II (I)

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To

Dated: 20<sup>th</sup> May 2014

The Executive Director,  
M/s UAL-Uttar Pradesh Industries Limited,  
Konark Mani Uday, 16, Mayfair Road,  
Kolkata-19, West Bengal.  
E-mail: [knpsinha@ualind.com](mailto:knpsinha@ualind.com) Fax: 033 40115139

**Subject:** Expansion of Chrysotile Fibre Cement Sheeting Plant (from 0.12 MTPA to 0.25 MTPA) of M/s. UAL-Uttar Pradesh Industries Limited located at Village Bramanpur, Dist. Jaunpur, Uttar Pradesh –Environmental Clearance- regarding.

Sir,

This is with reference to this Ministry's letter of even no dated 21.10.2010 awarding Terms of Reference (TOR) for the preparation of EIA-EMP report and your letter no. Nil dated 10.9.2012 along with EIA-EMP report and subsequent letters dated 22.4.2013 and 9.10.2013 seeking environmental clearance under the provisions of EIA Notification, 2006.

All the Asbestos milling and asbestos based products have been listed at Sl. No. 4(c) of Schedule of EIA Notification, 2006 as Category 'A' and have to be appraised at the Central level.

2. The Ministry of Environment and Forests has examined the application for the aforesaid project. It is noted that M/s. UAL Industries Limited have proposed to expand the Chrysotile Fibre Cement Sheeting Plant production capacity from 1,20,000 TPA to 2,50,000 TPA at their existing unit located at Baramanpur village, Jaunpur District, Uttar Pradesh. The proposed expansion will be carried out in an existing plant area of 6.81 ha. Hence no additional land is required for the expansion project. No Forest land is involved. There are no ecologically sensitive areas such as Biosphere Reserves, National Parks/Wild Life Sanctuaries, existing within 10 km radius of the project site. There are no forests within 10 km radius of project area. River Gomati flows at distance of 4.1 km in NE direction from the project site. Capital cost of the project is Rs 20 crores, of which Rs. 1 crore and Rs. 0.40 crore is earmarked for the capital cost and recurring cost per annum towards the environmental pollution control measures. Rs. 100 lakhs is earmarked towards the Enterprise Social Commitment based on Public Hearing issues. No court case/litigation is pending against the project. Public Hearing / Public Consultation meeting was conducted by the Uttar Pradesh Pollution Control Board on 18.07.2011.

3. It is noted that the proposed expansion of Chrysotile Fibre Cement Sheeting Plant from 0.12 MTPA to 0.25 MTPA will be achieved by adding a new line 0.13 MTPA by Hatschek Process for manufacturing of roofing sheets.

4. It is also noted that the Cement (1,12,500 TPA), Chrysotile fibre (20,000 TPA), paper and pulp (1250 TPA) and flyash (65,000 TPA) are the major raw material for manufacturing ACC sheets. Cement will be purchased from nearby cement plant. Chrysotile fibres are imported from Brazil, Russia, Kazakstan, Zimbabwe, and Canada (Size 1-4 mm). Fly ash will be obtained from the nearest thermal power plant. Raw materials will be transported by road. Power requirement is 800 KVA which will be met from the State Electricity Board. DG set of 1010 KVA is envisaged as a standby arrangement.

5. The fibre bag opening and shredding will be carried out using fully automatic bag opening machine inside closed chamber kept at negative pressure. Pulse jet bag filter will be provided for Automatic Chrysotile Fibre Handling System, Cement and Fly ash Handling System and Moulding Section with 99.9% efficiency. For control of fugitive dust, Fibre Dust Extraction system, Dust extractor with bag filters for fly ash mixing system, bag filter for Cement handling systems, Shop floor cleaning by using vacuum cleaners will be provided.

6. The total requirement of water is estimated to be 150 m<sup>3</sup>/day and will be met from bore wells. Permission for water drawl of 156 m<sup>3</sup>/day (for existing unit) has been obtained from Central Ground Water Authority (CGWA). Permission for the drawl of additional water from bore well water has been submitted to the Central Ground Water Authority. No industrial waste water will be generated in the Plant. Domestic waste water generated from Plant will be treated in the Septic tank. The company has implemented Rainwater harvesting measures within the plant premises.

7. The solid waste generated during cutting and trimming operations of sheets are hazardous in nature. The solid waste from cutting and trimmings of green sheets is recycled back to fibre mixer. The 100 % waste generated from the plant will be reused.

8. The proposal was considered by the Reconstituted Expert Appraisal Committee (Industry) in its 15<sup>th</sup> meeting held during 29-30<sup>th</sup> January, 2014. The Committee recommended the proposal for environmental clearance subject to stipulation of specific conditions along with other environmental conditions.

9. Based on the information submitted by you, presentation made by you and your consultant, M/s. B.S.Envi-Tech Private Limited - Hyderabad, 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 of the following Specific and General conditions:

**A. SPECIFIC CONDITIONS**

- i. The project proponent shall adhere to the prescribed BIS standards and laws regarding use and handling of asbestos, safety of employees etc. Raw materials like asbestos fibre and cement shall be transported in closed containers. Asbestos fibre shall be brought in pelletized form in impermeable bags and under compressed condition.
- ii. Only Chrysotile white asbestos fibre shall be used. Blue asbestos shall not be utilised as raw material in the manufacturing process.
- iii. There shall be no manual handling/opening of asbestos fibre bags. The company shall install fully automatic asbestos fibre debagging system.
- iv. Fugitive emissions shall be controlled by bringing cement in closed tankers, fly ash in covered trucks and asbestos in impervious bags opening inside a closed mixer. Dust collectoRS shall be provided to Fibre mill, Bag opening device (BOD), Cement and Fly ash

silos to control emissions. Bag filters followed by wet washer shall be provided at automatic bag opening machine, bag shredder, fibre mill and to cement silo to collect the dust and recycle it into the process. Fugitive emissions generated from hopper of Jaw crusher and pulverizer shall be channelized through hood with proper suction arrangement, bag filter and stack.

- v. The Company shall comply with total dust emission limit of  $2 \text{ mg/Nm}^3$  as notified under the Environment (Protection) Act, 1986. Adequate measures shall be adopted to control the process emission and ensure that the stack emission of asbestos fibre shall not exceed the emission limit of 0.2 fiber/cc. Asbestos fibre in work zone environment shall be maintained within 0.1 fibre/cc.
- vi. Bags containing asbestos fibre shall be stored in enclosed area to avoid fugitive emissions of asbestos fibre from damaged bags, if any.
- vii. Proper housekeeping shall be maintained within the plant premises. Process machinery, exhaust and ventilation systems shall be laid in accordance with Factories Act. Better housekeeping practices shall be adopted for improvement of the environment within the work environment also. These include:
  - a) All monitoring transfer points shall be connected to dust extraction system.
  - b) Leakages or dust from machines and ducts shall be plugged.
  - c) Floor shall be cleaned by vacuum cleaner only.
  - d) Enclosed belt conveyer shall be used instead of manual transportation of asbestos within the premises.
- viii. Quarterly monitoring of pollutant ( $\text{PM}_{10}$ , asbestos fibre count) in the work zone area and stack(s) shall be undertaken by the Project proponents. In addition, the asbestos fibre count including the fugitive dust in the work zone area shall be monitored by an Independent monitoring agency like NIOH/ITRC/NCB or any other approved agency on six monthly basis and reports shall be submitted to the Ministry's Regional Office at Lucknow, SPCB and CPCB.
- ix. As reflected in the Environmental Management Plan, all the treated effluent shall be recycled and reused in the manufacturing process. No process water shall be discharged outside the premises and 'zero' discharge shall be maintained. All the domestic wastewater shall be treated in septic tank followed by soak pit and used for green belt development.
- x. The Company shall ensure that the entire solid waste generated including process rejects, cement, fly ash, dust from bag filters and empty asbestos bag shall be recycled back in the manufacturing process. There will be no solid waste disposal outside the plant premises. Asbestos fibres which cannot be further recycled due to contamination of iron dust shall be stored in HDPE lined secured landfill. The disposal facilities for asbestos waste shall be in accordance with the Bureau of Indian Standard Code.
- xi. The cut and damaged fibre bags shall be repaired immediately. Empty fibre bags will be shredded into fine particles in a bag shredder and recycled into the process. Piling of AC sheets shall be done in wet condition only.
- xii. The Company shall obtain a certificate from the supplier of Chrysotile fibre that it does not contain any toxic or trace metals. A copy of certificate shall be submitted to the Ministry of Environment and Forests.

- xiii. Regular medical examination of the workers and health monitoring of all the employees shall be carried out and if cases of asbestosis are detected, necessary compensation shall be arranged under the existing laws. A competent occupational health physician shall be appointed to carry out medical surveillance. Occupational health of all the workers shall be monitored for lung function test, chest x-ray, sputum for acid-fast-bacilli (AFC) and asbestos body (AB), urine for sugar and albumen, blood tests for TLC, DLC, ESR, Hb and records maintained for at least 40 years from the beginning of the employment or 15 years after the retirement or cessation of employment whichever is later. Occupational Health Surveillance shall be carried out as per the directives of the Hon'ble Supreme Court including the recent Kalyaneswari case.
- xiv. To educate the workers, all the work places where asbestos dust may cause a hazard shall be clearly indicated as a dust exposure area through the use of display signs which identifies the hazard and the associated health effects.
- xv. The company shall also undertake rain water harvesting measures and plan of action shall be submitted to the Ministry's Regional Office at Lucknow within three months.
- xvi. All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 18.7.2011 shall be satisfactorily implemented and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional Office at Lucknow.
- xvii. As proposed, green belt over 33 % of the total project area shall be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.
- xviii. At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office at Lucknow. Implementation of such program shall be ensured accordingly in a time bound manner.
- xix. 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.

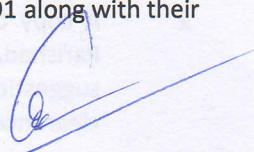
**B. GENERAL CONDITIONS:**

- i. The project authorities must strictly adhere to the stipulations made by the Uttar Pradesh 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. At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub> and NO<sub>x</sub> 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 Lucknow and the SPCB/CPCB once in six months.

- iv. Industrial wastewater shall 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 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 should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).
- vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vii. The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.
- viii. 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.
- ix. Requisite funds 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 Lucknow. The funds so provided shall not be diverted for any other purpose.
- x. 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.
- xi. The project proponent shall upload the status of compliance of the stipulated Environmental 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 Lucknow. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub> (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.
- xii. 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 Lucknow / CPCB / SPCB shall monitor the stipulated conditions.
- xiii. The environmental statement for each financial year ending 31<sup>st</sup> 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 along with the status of

compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEF at Lucknow by e-mail.

- xiv. 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 Lucknow.
- xv. 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.
- 11. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- 12. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- 13. 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. T. Chandini)  
Director

**Copy to:**

- 1. The Secretary, State Department of Environment, Government of Uttar Pradesh, Room No. 13, New Buildings, Vidhan Bhavan, Lucknow -226001, UP.
- 2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
- 3. The Chairman, Uttar Pradesh State Pollution Control Board, 111 Floor, PICUP Bhavan, Vibhuti Khand, Lucknow-226020.
- 4. The Additional Principal Chief Conservator of Forests, Regional Office (Central Region), B-1/72, Sector H, Aliganj, Lucknow-226020.
- 5. Guard File / Monitoring File / Record File.