

F. No. J-11011/623/2010-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: ahuja.rai@nic.in
Tele/fax: 011 - 2436 3973
Dated: 12th March, 2012

To,

The Managing Director,
M/s Everest Industries Limited
GENESIS, A-32, Mohan Co-operative Industrial Estate,
Mathura Road, New Delhi- 110 044

Ph: 011- 40512360 Fax: 011- 46566370
E-mail: msanghi@everestind.com

Sub: Proposed Chrysotile Asbestos Fiber Cement Roofing and Accessories Manufacturing Plant (2,40,000 MTPA) at Plot No. Z5 in IID Centre, Palsandha, Somnathpur Industrial Estate, Tehsil & District Balasore in Orissa by **M/s Everest Industries Limited - regarding Environmental Clearance**

Sir,

This has reference to your letter no. nil dated 26.06.2011 and subsequent communications dated 26th & 29th September, 2011 and 21st November, 2011 along with copies 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 Everest Industries Limited have proposed for Fiber Cement Sheet Plant at Plot No. Z5 in IID Centre, Palsandha, Somnathpur Industrial Estate, Tehsil & District Balasore in Orissa. Total proposed project area is 21.37 acres. River Budhabalanga is flowing at a distance of 8.0 km in North direction. No National Park / Wildlife Sanctuary / Reserve Forest is located within 10 km radius of the project. Only Nilgiri Protected Forest is at a distance of 5.5 km in North West direction. Total cost of the project is Rs. 33.44 Crores.

3. Details of the products and their production capacities are as given below:

- Asbestos Cement Corrugated Sheet - 2,40,000 MT/Annum
- Non Asbestos Cement Flat Sheets: 72,000 MT/Annum
- Non Asbestos Cement Corrugated Sheets: 1,08,000 MT/Annum
- RAPICON Panel: 18,000 MT/Annum.

4. The raw material required would be ordinary Portland cement, fly ash, chrysotile asbestos fiber and pulp. The cement would be purchased from ACC and JK Cement in Madhya Pradesh. Fly ash will be sourced from Jindal Power Plant in Orissa and Kolaghat Thermal Power Plant in West Bengal. The chrysotile asbestos fiber will be imported from Russia, Canada, Brazil and Zimbabwe. Pulp would be sourced from Russia, New Zealand, Chile and from Chennai.

5. It is noted that fully automatic bag opening device will be installed. Fiber Cement Sheets will be manufactured by adopting a wet process to mitigate the dust emission. Dust Collectors with reverse pulse jet at all critical locations (Bag House of Bag Filters) will be provided.

6. Total water requirement will be 351m³/day, which will be supplied by the Industrial Estate. Closed water circuit system for production will be adopted where the entire process water will be re-circulated back to process to achieve zero discharge. The process water will pass through decantation cones and settling tanks enabling 100% reutilization. Domestic effluent will be treated in a sewage treatment plant & the treated water will be utilized for green belt. Rainwater from the roof top and from the open space will be collected and channelized through storm water drain for recharging of ground water through the recharge well located within the plant area. Rain water harvesting pond will be constructed to collect the rain water which will be connected to recharge wells. Total power consumption would be 2,200 KW, which will be drawn from the State Electricity Board.

7. Empty asbestos bags will be automatically shredded and used in the process. There will be no dumping of any waste material including spillages as these would be automatically reused in the process. Sludge from STP will be used as manure. Cleaning waste will be treated in a ball mill and reused into the process.

8. The Asbestos Fibre Sheet Manufacturing Cement Plants have been listed at Sl. No. 4 (C) of Schedule of EIA Notification, 2006 as Category 'A' and have to be appraised by the Expert Appraisal Committee -1 (Industry) in the Ministry.

9. The proposal was considered by the Expert Appraisal Committee-1 (industry) in its 28th meeting held during 26th - 27th September, 2011. The Committee sought additional information for reconsideration of project. On receipt of additional information, the committee reconsidered the project in its 30th meeting held during 28th - 29th November, 2011. The Committee recommended the proposal for environmental clearance subject to stipulation of specific conditions along with other environmental conditions. The project is exempted from the public hearing, as per 7(i) III (b) of EIA Notification, 2006 as it is located in notified industrial area.

10. Based on the information submitted by you, presentation made by you and consultant, M/s Ecomen Laboratories Pvt. Limited, Lucknow, 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. 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 utilized as raw material in the manufacturing process.
- iii. There shall be no manual handling/opening of asbestos fiber bags. The company shall install fully automatic asbestos fiber debagging system before commissioning the unit.
- 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 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 fibre/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 house keeping shall be maintained within the plant premises. Process machinery, exhaust and ventilation systems shall be laid in accordance with Factories Act. Better house keeping 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 (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 in the work zone area shall be monitored by an Independent monitoring agency like NIOH / ITRC / NCB or any other approved agency and reports submitted to the Ministry's Regional Office at Bhubaneswar, SPCB and CPCB.
- ix. Total water requirement from ground water shall not exceed $351 \text{ m}^3/\text{day}$ and prior permission for the drawl of ground water from bore wells shall be obtained from the State Ground Water Department. All the recommendations of the State Ground Water Department, Govt. of Orissa shall be implemented in a time bound manner.
- x. 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.
- xi. The Company shall ensure that the entire solid waste generated including process rejects, cement, fly ash, dust from bag fillers and empty asbestos bag shall be recycled back in the manufacturing process. Process sludge shall be 100% recycled and reused in the process. Hazardous waste shall be ground in dust proof pulverizer with integrated bag filter and recycled back to the process. 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.
- xii. The cut and damaged fibre bags shall immediately be repaired. 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.
- xiii. 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.
- xiv. 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.

- xv. 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.
- xvi. The company shall also undertake rain water harvesting measures and plan of action shall be submitted to the Ministry of Environment and Forests within three months.
- xvii. Green belt shall be developed in at least 33 % of plant area as per the CPCB guidelines in consultation with the DFO.
- xviii. At least 5 % of the total cost of the project should be earmarked towards the Enterprise Social Commitment based on locals needs and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhubaneswar. Implementation of such program should be ensured accordingly in a time bound manner.
- xix. The company should 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.
- xx. The Company shall submit within three months their policy towards Corporate Environment Responsibility which should inter-alia address (i) Standard operating process/ procedure to bring into focus any infringement/deviation/violation of environmental or forest norms/conditions, (ii) Hierarchical system or Administrative order of the Company to deal with environmental issues and ensuring compliance to the environmental clearance conditions and (iii) System of reporting of non compliance/violation environmental norms to the Board of Directors of the company and/or stakeholders or shareholders.

B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the Orissa 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 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.

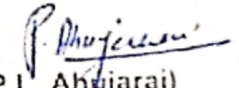
- v. Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.
- vi. The overall noise levels 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 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 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, and 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.

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.

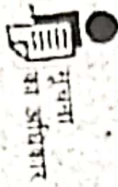
13. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules,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


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

Copy to:-

1. The Secretary, State Department of Environment, Govt. of Orissa, Bhubaneswar, Orissa.
2. Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi, 110 032.
3. Chairman, Orissa Pollution Control Board, Parivesh Bhawan, A/118, Neelkanthhanagar, Unit-8, Bhubaneswar - 751 012, Orissa.
4. The Chief Conservator of Forests (Eastern), Regional Office (EZ), A/3, Chandrasekharpur, Bhubaneswar - 751 023, Orissa.
5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhawan, CGO Complex, New Delhi.
6. Guard File / Record File.


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



भारत सरकार सेवाय
ON INDIA GOVERNMENT SERVICE



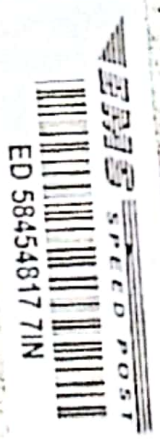
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