

F. No. J-11011/986/2008-IA-II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(I.A. Division)

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Dated: 14th September, 2015
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To

M/s Ambuja Cement Ltd.
Village Rauri, Tehsil Arki,
District Solan,
Himachal Pradesh

Email: sunil.duggal@ambujacement.com, anurag.solankey@ambujacement.com

Subject: Expansion of Cement Plant, Clinker (1.8 MTPA to 2.6 MTPA) at Village Rauri, Tehsil Arki, District Solan, Himachal Pradesh by M/s Ambuja Cement Limited – regarding environmental clearance.

Sir,

This has reference to your letter No.ACL/EMD/MoEF/F-20/12-08, dated 10.10.2012 along with copies of EIA/EMP report seeking environment clearance under the provisions of EIA Notification, 2006.

2. The Ministry of Environment, Forest and Climate Change has examined the application for the above project. It is noted that M/s. Ambuja Cement Limited have proposed to expand their cement plant clinkerization unit from 1.8 MTPA to 2.6 MTPA at village Rauri, Tehsil Arki, District Solan, Himachal Pradesh. The proposed expansion will be carried out within the existing land of 23.35 ha itself and no additional land is required for the expansion project. No Forest land is involved. The Majathal wildlife sanctuary and Piplughat wildlife sanctuary are located at a distance of 2.7 km and 4.0 km respectively from the plant site. In this regard, the proponent has submitted a copy of the No Objection Certificate obtained from Principal Chief Conservator of Forests cum Chief Wildlife Warden, Government of Himachal Pradesh on 24.1.2012. The proposal is recommended by the Standing Committee of Wild Life in its 31st meeting held on 12th – 13th August, 2014. The Sutlej river is located at a distance of 6 km from the limestone mining site. There are 24 protected forest blocks located within 10km radius of the project site. Total cost for clinkerization expansion is Rs. 976 crores. An amount of Rs. 109 crore and Rs.6.5 crores is earmarked towards the capital cost and recurring cost per annum towards the environmental protection measures. The existing plant got environmental clearance from the Ministry vide letter No. J-11011/203/2006-IA.II (I) on 17.1.2006.

3. The proposed expansion of the plant will be achieved by modification/debottlenecking of existing units to increase productivity and there will be no

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change in plant lay out. The total raw materials requirement for the proposed expansion are Limestone – 1.05 MTPA, Shale – 0.117 MTPA; Iron ore – 0.2 MTPA; Red Ochre – 0.012 MTPA and Coal – 0.197 MTPA. Limestone and shale will be sourced from Kashlog mine and transported through overland belt conveyor. Iron ore will be purchased from open market and transported by road. The coal will be imported from South Africa. The power requirement for the proposed expansion is 30 MW, which will be met from the State Electricity Board.

4. It is noted that the Bag filter will be used in coal mill to control dust pollution. Electro Static Precipitator (ESP) will be used in clinker cooler to control dust pollution. Fugitive dust emission from raw mill hopper, blending silos, kiln feed, clinker storage silos, truck loading machine and all transfer points and vents will be captured and controlled using bag filters. Water sprinkling arrangement will be done around raw material stockpiles.

5. The existing water requirement is 500 m³/day and no additional water will be required for the proposed expansion. No wastewater will be discharged outside the plant premises. Dust collected from the air pollution control systems will be reused. The domestic wastewater will be treated in the Sewage Treatment Plant. Spent oil will be given to authorized re-processors.

6. Public Hearing / Public Consultation meeting was conducted by the Himachal Pradesh State Pollution Control Board on 30.8.2012.

7. All the Cement Plants (≥ 1.0 MTPA) are listed at S.No. 3(b) under Category 'A' of the schedule of EIA Notification, 2006 and appraised by the Expert Appraisal Committee (Industry) of MoEFCC.

8. The proposal was considered by the Reconstituted Expert Appraisal Committee (Industry) during its 6th meeting held on 5-7th March 2013 and recommended the proposal for environmental clearance subject to stipulation of specific conditions along with other environmental conditions.

9. The Ministry of Environment, Forest and Climate Change has considered the application based on the recommendations of the Expert Appraisal Committee (Industry) and hereby decided to grant Environmental Clearance to the above mentioned proposal 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. Environmental Clearance is subject to the final outcome of Civil Writ Petition No.10581 of 2011: Narpat Ram & Ors Vs State of Himachal Pradesh & Ors and Civil Writ Petition No 9442 of 2011: Prem Lal Sharma Vs State of Himachal Pradesh pending before the Hon'ble High Court of Himachal Pradesh at Shimla.
- ii. 24X7 monitoring of emissions and effluent should be conducted, as prescribed by CPCB from time to time and report should be submitted to the Regional Office of the Ministry.
- iii. The expansion project shall comply with the new MOEFCC Standards issued vide GSR 612 (E) dated 25.08.2014 with respect to particulate matter, SO₂, NO_x for Cement sector.

- iv. All the conditions stipulated by the Standing Committee of the National Board for Wildlife should be effectively implemented.
- v. Continuous stack monitoring facilities to monitor gaseous emissions from the process stacks shall be provided. After expansion, limit of PM shall be controlled within 50 mg/Nm³ by installing adequate air pollution control system. Electrostatic precipitators to clinker cooler, bag house to raw mill/kiln and bag filters to coal mill and cement mill. Low NO_x burners should be provided to control NO_x emissions.
- vi. 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 should be followed.
- vii. 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 should be transported in the closed containers only and shall not be overloaded. The company shall have separate truck parking area. Vehicular emissions should be regularly monitored. A transport management plan in this regard to reduce the impact shall be submitted to the Ministry's Regional Office within six months.
- viii. The existing water requirement is 500 m³/day and no additional water will be required for the proposed expansion. All the treated wastewater shall 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.
- ix. Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir should be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.
- x. All the bag filter dust, raw mill dust, coal dust, clinker dust and cement dust from pollution control devices should be recycled and reused in the process and used for cement manufacturing. Spent oil and batteries shall be sold to authorized recyclers / re-processors only.
- xi. An effort shall be made to use of high calorific hazardous waste in the cement kiln and necessary provision should be made accordingly. A report in this regard shall be submitted to the Ministry's Regional Office at Dehradun.
- xii. 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.
- xiii. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Cement plants should be implemented.

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- xiv. All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 30.8.2012 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 Dehradun.
- xv. 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 Dehradun. Implementation of such program shall be ensured accordingly in a time bound manner.
- xvi. 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.


B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the Himachal Pradesh 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, Forest and Climate Change.
- 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 PM₁₀, PM_{2.5}, 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 Dehradun 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 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 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, Forest and Climate Change 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 Dehradun. 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 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 MOEFCC at Dehradun. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM₁₀, PM_{2.5}, 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.
- 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 MOEFCC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Dehradun / CPCB / SPCB shall monitor the stipulated conditions.
- xiii. 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 along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEFCC at Dehradun 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, Forest and Climate Change 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 Dehradun.

- 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.
10. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
11. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
12. 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. Satish C. Garkoti)
Scientist 'F'

Copy to:-

1. The Secretary, State Department of Environment and Forests, Govt. of HP. Shimla.
2. Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (NCZ), Pearson Road, P.O. New Forest, Forest Research Institute (FRI) campus, Dehradun - 248006.
3. The Chairman, Himachal State Pollution Control Board, 'Him Parivesh', Phase-III, New Shimla-171009
4. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
5. The Chief Conservator of Forests (Wildlife)/ Chief Wildlife Warden, Government of Himachal Pradesh, Shimla - 171001.
6. Guard File/Monitoring File/Record File.


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