

F. No. J-11011/146/2012-IA II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(I.A. Division)

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Dated: 26th May, 2016

To

M/s Ambuja Cement Ltd
Village Daburji, P.O Lodhimajra,
Tehsil and District Ropar
Punjab-140113

Subject: Expansion of Cement Grinding Unit project (from 2.5 MTPA to 3.4 MTPA) by process optimization of M/s Ambuja Cement Ltd., located at Village Daburji, P.O Lodhimajra, Tehsil and District Ropar in Punjab – Environmental Clearance regarding.

Sir,

This has reference to your online application No. IA/PB/IND/2817/2012 Dated 30th January, 2016 along with copies of EIA/EMP report seeking environmental clearance under the provisions of the EIA Notification, 2006 for the project mentioned above. The application for proposed expansion of Cement Grinding Unit was initially received in the Ministry on 16th March, 2012 for obtaining Terms of Reference (ToRs) as per EIA Notification, 2006. The ToRs to the project was awarded by the Ministry of Environment, Forest and Climate Change vide letter No. J-11011/146/2012-IA.II (I) dated 15th June, 2012 and the validity of the same was extended vide letters dated 5th November, 2014 and 5th October, 2015 for preparation of EIA/EMP report. The cement grinding unit are categorised as category 'B' projects; however, in view of the inter-state boundary of Himachal Pradesh and Punjab within 4 km towards East direction; therefore, as per the general condition the project has been considered as category 'A' at the MoEFCC level.

2.0 The proposal is for enhancement of production of Cement Grinding Unit from 2.5 million tonnes per annum (MTPA) to 3.4 MTPA by process optimization. The total existing plant area is 68.47 ha. No additional land is required for the proposed expansion as the same will be done within the existing plant premises. No R&R is involved. No forest land is involved. The topography of the area is flat and reported to lies between 31° 01' 50.65" N to 31° 02' 54.09" N Latitude & 76° 32' 6.23" E to 76° 35' 43.06" E Longitude in Survey of India topo sheet No.53A/12, 53A/8, 53B/9 and 53B/5. The elevation of project ranges from 257-285 m. The Satluj River (2.2 km in WNW direction, Sirsa Nadi (1.8 km in N direction) and Nangal Hydrl Canal (1.0 km in SE direction) exist within 10 km radius of the study area. Existing area is under the possession of the proponent. No National Park / Wildlife Sanctuary / Biosphere Reserve / Tiger Reserve / Elephant Reserve, etc. are reported to be located in the core and buffer zone of the project.

3.0 The targeted production capacity of the cement grinding unit is 3.4 MTPA. The raw materials required for the proposed expansion are clinker (2.13 MTPA), gypsum (0.24

MTPA) and fly ash (1.03 MTPA). The clinker and gypsum will be transported through roads whereas fly ash will be transported through pneumatic conveying system.

4.0 The ground water table reported to ranges between 2.5 m - 9.7 m below the land surface during the post-monsoon season and 2.8 m - 10.15 m below the land surface during the pre-monsoon season. Based on the hydro-geological study, it has been reported that the radius of influence of pumped out water will be 9.47 m. Further, the stage of ground development is reported to be 52.69% and thereby the area is designated as safe area.

5.0 The existing fresh water requirement for the cement grinding unit (including colony) is 430 m³/day, which is sourced from ground water. Additional 25 m³/day water will be required for the proposed expansion; thus, the total fresh water requirement after the proposed expansion will be 455 m³/day, which will be sourced from ground water. The existing power requirement for cement grinding unit (including colony) is 15.8 MW (15800 KW), which will be sourced from Captive Thermal Power Plant. No additional power is required for the proposed expansion project.

6.0 No solid waste will be generated from the cement manufacturing process. Dust collected from air pollution control equipment will be totally recycled back in the process. Solid waste in the form of sludge generated from the Sewage Treatment Plant (STP) will be utilized as manure for greenbelt development / plantation.

7.0 It has been mentioned that out of the total plant area i.e. 58.47 ha (excluding 10 ha area of truck yard), 10.52 ha (~18%) has already been developed under green belt/plantation and the same will be maintained. An additional area of 3.77 ha (~15%) will be further developed. Thus after proposed expansion, an area of 19.45 ha i.e. 33% of the plant area will be developed under green belt.

8.0 The Public hearing of the project was held on 5th May, 2015. The issues raised during public hearing were employment, pollution, infrastructure development, land related issues, education, CSR related issues, plantation, water etc.

9.0 The capital cost of the project is Rs. 1.05 crores and the capital cost for environmental protection measures is proposed as Rs 5.25 lacs. The annual recurring cost towards the environmental protection measures is proposed as Rs. 0.52 lacs / annum. The proponent has mentioned that there is no court case to the project or related activity.

10.0 The matter was considered during the 4th meeting of the Expert Appraisal Committee (Industry - I) held on 25th -26th February, 2016 and recommended the project for Environmental Clearance and stipulated Specific Conditions along with other environmental conditions while considering for accord of environmental clearance.

11.0 The Ministry of Environment, Forest and Climate Change has considered the application based on the recommendations of the Expert Appraisal Committee (Industry-I) and hereby decided to grant environmental clearance to the above mentioned expansion of Cement Grinding Unit project (from 2.5 to 3.4 MTPA) by process optimization of M/s Ambuja Cement Ltd., under the provision of EIA Notification dated 14th September, 2006, as amended, subject to strict compliance of the following Specific and General conditions:

A. SPECIFIC CONDITION:

- i. The project proponent shall install 24x7 air monitoring devices to monitor air emissions, as provided by the CPCB and submit report to Ministry and its Regional Office.
- ii. The Standards issued by the Ministry vide G.S.R. No. 612 (E) dated 25th August, 2014 regarding cement plants with respect to particulate matter, SO₂ and NO_x shall be followed.
- iii. Efforts shall be made to achieve power consumption of 70 units/tonne for Portland Pozzolona Cement (PPC) and 95 units/tonne for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker.
- iv. The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.
- v. 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.
- vi. Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land by use of conveyors/rail mode of transport wherever feasible. The company shall have separate truck parking area. Vehicular emissions shall be regularly monitored.
- vii. Efforts shall be made to further reduce water consumption by using air cooled condensers. 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 shall be adopted.
- viii. Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.
- ix. Green belt shall be developed in 33% of the project area within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area, along road sides etc. by planting native and broad leaved species in consultation with local DFO and local communities as per the CPCB guidelines.
- x. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Cement plants shall be implemented.
- xi. At least 2.5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/details shall be prepared and submitted to the Ministry's Regional Office. Implementation of such program shall be ensured accordingly in a time bound manner.

- xii. The proponent shall prepare a detailed CSR Plan for every next 5 years for the existing-cum-expansion project, which includes village-wise, sector-wise (Health, Education, Sanitation, Health, Skill Development and infrastructure requirements such as strengthening of village roads, avenue plantation, etc) activities in consultation with the local communities and administration. The CSR Plan will include the amount of 2% retain annual profits as provided for in Clause 135 of the Companies Act, 2013 which provides for 2% of the average net profits of previous 3 years towards CSR activities for life of the project. A separate budget head shall be created and the annual capital and revenue expenditure on various activities of the Plan shall be submitted as part of the Compliance Report to RO. The details of the CSR Plan shall also be uploaded on the company website and shall also be provided in the Annual Report of the company.
- xiii. The project proponent shall provide for solar light system for all common areas, street lights, villages, parking around project area and maintain the same regularly.
- xiv. The project proponent shall provide for LED lights in their offices and residential areas.
- xv. Provision shall be made for the housing of 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 Punjab 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, Forests and Climate Change (MoEFCC).
- 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 Chandigarh 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 form 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 (MoEFCC) 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 Chandigarh. 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 Chandigarh. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM₁₀, 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 Chandigarh / 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 Chandigarh 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, Forests and Climate Change (MoEFCC) 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 Chandigarh.

- 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.

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

13.0 The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

14.0 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, Department of Environment, Government of Punjab.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi, 110 032.
3. The Chairman, Punjab State Pollution Control Board, Vatavaran Bhavan, Nabha Road, Patiala-147001.
4. The Additional Principal Chief Conservator of Forests (C) Ministry of Environment, Forest & Climate Change, Regional Office (NZ) Bays No. 24-25, Sector-31 A, Dakshin Marg, Chandigarh-160030.
5. Guard File / Record File/Monitoring file.


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