

F. No. J-11011/366/2011-IA II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(I.A. Division)

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Dated: 7th March, 2016

To

✓ **M/s Kalyanpur Cement Ltd.**
Maura Cemter, 1, Fraser Road,
Patna, Bihar-800001

Subject: Expansion of Cement Plant from 1 MTPA to 1.15 MTPA with captive Power Plant by M/s Kalyanpur Cements Ltd. (KCL) at village Kalyanpur, P.O. Banjari, District Rohtas, Bihar - Environment Clearance-regarding.

Sir,

This has reference to your online application No. IA/BR/IND/4554/201 dated 25.08.2015 along with copies of EIA/EMP report and subsequent letter dated 12.01.2016 seeking Environment Clearance under the provisions of the EIA Notification, 2006 for the project mentioned above. The Terms of Reference (ToRs) to the project were prescribed by the Ministry vide letter No. J-11011/366/2011-IA-II(I) dated 9th September, 2011. The public hearing for the project was conducted on 15th July 2012. However due to delay in getting NOC and authenticated map from the Chief Wildlife Warden regarding distance of plant from Kaimur Wildlife Sanctuary, the ToRs had to be extended for two terms from 9th September 2013 to 8th September 2014 and again till 8th September 2015 vide letters of even number dated 28.04.2014 and 27.08.2015 respectively. The proposed project activity is listed at S.No. 3(b) in Cement Plant under Category 'A' of the Schedule of EIA Notification 2006.

2.0 M/s Kalyanpur Cements Limited (KCL) has proposed to expand the capacity of its existing cement plant located at Village Kalyanpur, District Rohtas, Bihar from 1.0 MTPA capacity to 1.15 MTPA. In addition, a captive power plant of 15 MW is also proposed in the same premises. The proposed expansion will be carried out within existing project premises of 100.75 acres. In the cement plant, the machinery and infrastructure has enough spare capacity to handle the additional production of 0.15MTPA. No additional land will be acquired for the proposed expansion project.

3.0 The project site is well connected by road with NH-2C, located adjacent to the plant. The nearest Railway Station is at Dehri-on-Sone, approximately 35 km from the project site. The River Sone flows near to the project site at a distance of 1.1 km on the eastern side. The total cost of the project will be Rs.106.74 crores. The plant is located at a distance of 270 meters from Kaimur Wildlife Sanctuary; however, the village Kalyanpur, District Rohtas, where the plant is located, has not been included in the annexure appended to the Eco Sensitive Zone Notification issued vide S.O. No. 3549 (E) dated 30th December, 2015. The total capital cost for environmental pollution control measures will be Rs.10.0 crores and

recurring cost will be Rs.0.5 crores per annum. Rs.5.33 crores has been allocated towards CSR activities which will be in no case utilized for any other purpose.

4.0 The raw material required for the cement plant includes limestone, gypsum, fly ash and coal. For the captive power plant, the raw material required will be coal. The average total additional water requirement for the proposed expansion project is estimated at about 250 KLD for captive power plant and 20 KLD for domestic, which will be sourced from the mines water reservoir and bore-wells respectively. The power and energy demand of cement plant are 9 MW and 71.71 KWh per annum at the present production level. However after enhancement of the plant capacity to 2200 TPD, the power requirement shall increase to 11.5 MW. Due to very high power cost of BSEB, KCL has proposed to establish a 15 MW Captive Power Plant. At present, the total manpower employed with KCL and its contractors is about 1000. After the proposed expansion and installation of captive power plant, an additional manpower of 39 will be required for operation of the plant.

5.0 Considering the potential heat values of the waste flue gases of cement plant process, it is proposed to install the "Waste Heat Recovery Boiler". The selected configuration for generation of power would consist of coal and washery coal based thermal power plant having one boiler with MCR 60 TPH and two waste heat recovery boiler (PH & AQC) connected to one turbo generators of 15 MW capacity.

6.0 Public hearing for the project was conducted on 15th July 2012 at Primary School, Baknaura, District Rohtas, Bihar. The major issues raised during the public hearing inter-alia include impact of proposed expansion and installation of captive power plant on the nearby agricultural fields, water quality and water use, water pollution, air pollution, CSR activities etc.

7.0 The proposal was considered by the Expert Appraisal Committee (Industry-I) during its 1st meeting held on 18th -20th November, 2015 and recommended the project for Environmental Clearance and stipulated Specific Conditions along with other environmental conditions while considering for accord of Environmental Clearance.

8.0 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 proposal of M/s Kalyanpur Cement Ltd. for expansion of Cement Plant from 1 MTPA to 1.15 MTPA with captive Power Plant (15 MW) 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 emission, as provided by CPCB and submit report to Ministry and its Regional Office. Emission for particulate matter should be restricted to 30 mg/m³.
- 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. All the pollution control devices/equipment in the grinding unit shall be interlocked so that in the event of the pollution control devices/systems not working, the respective unit(s) shut down automatically.
- iv. 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.
- v. 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 including fly ash 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.
- vi. 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.
- vii. Storage of material shall be in covered area.
- viii. Rain water harvesting plan shall be prepared and shall supplement the water requirements of the project.
- ix. Regular monitoring of influent and effluent surface, sub-surface and ground water should be ensured and treated wastewater should meet the norms prescribed by the State Pollution Control Board or described under the Environment (Protection) Act, 1986 whichever are more stringent
- x. 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.
- xi. All the commitments made to the public during the Public Hearing / Public Consultation meeting shall be satisfactorily implemented and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional Office.
- xii. 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 Chandigarh. The proponent shall prepare a detailed ESC 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 ESC 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 ESC 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, Chandigarh. The details of the ESC Plan shall also be uploaded on the company website and shall also be provided in the Annual Report of the company.

- xiii. 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, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- xiv. The proposed cement plant kiln will provide for a flexible fuel feeding system to enable use of hazardous wastes as per guidelines of CPCB.

B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the Bihar 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 Ranchi 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 (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 Ranchi. 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 Ranchi. 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 Ranchi / 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 Ranchi 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 Ranchi.

- 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.

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

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

11.0 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.


09/13/2016
(Dr. Satish C. Garkoti)
Scientist 'F'

Copy to:-

1. The Secretary, Department of Environment, Government of Bihar.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi, 110 032.
3. The Chairman, Bihar State Pollution Control Board, Beltron Bhawan, Shastri Nagar Jawahar Lal Nehru Marg, Patna, Bihar-800023.
4. The Additional Principal Chief Conservator of Forests (C) Ministry of Environment, Forest and Climate Change, Regional Office (ECZ), Bungalow No. A-2, Shyamali Colony, Ranchi – 834002.
5. Guard File / Record File/Monitoring file.


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