

State Level Environment Impact Assessment Authority, Uttar Pradesh

Directorate of Environment, U.P.

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Ref. 643 /praya/SEAC/ 136/2011/AD(H)

To.

Mr. Sanjeev Gupta,
General Manager,
M/s Heidelberg cement, 9th floor, infinity tower,
DLF Cyber city, phase-II,
Gurgaon.

Dated 28 March, 2012

Sub.: Regarding the Environmental Clearance for Expansion of 0.8 MTPA to 2.7 MTPA cement grinding capacity, Diamond cement (Heidelberg cement) at Madora, Jhansi.

Dear Sir,

Please refer to your letter dated 16-11-2011, 02-12-2011 and 27-12-2011 addressed to the Secretary SEAC & Director, Directorate of Environment Govt. of U.P. Dr. Bhimrao Ambedkar Paryavaran Parisar, Vineet Khand-1, Gomti Nagar, Lucknow received in this Directorate on 21-11-2011, 07-12-2011 and 29-12-2011 respectively on the subject as above. The State Level Expert Appraisal Committee (SEAC) has considered the case in its meeting held on 07-12-2011 and 29-12-2011 has been given to understand that:

1. The project proposal falls under Category 3b of EIA notification.
 2. The Raw material as Clinker -1.8 MTPA from Diamond cement, Fly ash - 0.6 MTPA from UPVUNL power plant, parichha, Gypsum- 0.14 MTPA from Rajasthan is required.
 3. The Plant land around - 70 hectare. Green area 21 ha. (30% of total area) is proposed.
 4. 50 mt³/day from Bore-well is total water requirement with source & plant to be run on zero discharge basis.
 5. The Energy Requirement is as 5.6 MVA from UPSEB.
 6. Application for Expansion of 0.8 MTPA to 2.7 MTPA cement grinding capacity, Diamond cement (Heidelberg cement) at Madora, Jhansi was applied vide letter dated 16-01-2008.
 7. In the initial project 2 ball mill was proposed for cement grinding.
 8. So far the two ball mills were not installed.
 9. Now, it has been proposed to install one vertical roller mill in place of two new cement Grinding ball mills.
 10. The capacity of expansion will be from 0.8 MTPA to 2.70 MTPA, which will be same as proposed earlier.
 11. The proposed grinding system will be more energy efficient will have lower noise levels and lower air emission levels as compared to the ball mill system.
 12. Compliance to the E.C. issued for Application for Expansion of 0.8 MTPA to 2.7 MTPA cement grinding capacity, Heidelberg cement (Diamond cement) at Madora, Jhansi was submitted.
 13. An EC was granted to Diamond Cements (Prop: Heidelberg Cement India Limited) vide letter No. EC 113/SEAC/136/2008 dated 21.01.2009.
 14. M/s Diamond Cement vide letter No. 2242 dated 16.11.2011 has requested for permission to allow installation of one Vertical Rolling Mill instead of two Ball mills.
 15. There is no change in the production capacity.
 16. The replacement of one VRM in place of two Ball Mills is only change of grinding technique. This change will replace proposed two 50 m stacks of ball mill with one 57mt. Stack for VRM. Dust Pollution from stack will be reduced from 8.7 to 2.4 in g/s.
- Based on the recommendations of the State Level Expert Appraisal Committee (Meeting held on 29-12-2011), the State Level Environment Impact Assessment Authority (Meeting held on

16-02-2012) hereby recommends requested change i.e., replacement of two Ball Mills with one Vertical Roller Mill and environmental clearance under the provisions of EIA Notification dated 14th September 2006 as amended subject to strict compliance of the following Specific and General conditions:

1. Air borne dust at all transfer points will be extracted through dust extraction system to the bag filters. All the belt conveyers will be covered and it will be connected to Bag Filter to control the particulate emissions. The vents of the hoppers will be connected to dust extraction system. All the air slides will be closed type and will be connected to Bag Filter. The bucket elevator and vents of silo will be connected to Bag Filter. The packing machine will be equipped with dust extraction arrangement. The dust will be captured in bag filters. The internal roads will be black topped. Manual sweeping/vacuum sweeping will be carried out regularly followed by water sprinkling.
2. Water requirement of 200m³/day will be met from the ground water source. There will be no waste water generation from the process. Cooling water will be completely recycled. Cooling water contaminated with oil and grease from cooling of motors and pumps will be treated in Oil & Grease Trap followed by Settling Tank and will be re-used for dust-suppression. Soft water regeneration effluent will be treated in settling tank and re-used for dust suppression. The unit will adopt zero discharge concepts. Domestic effluent will be treated in STP and treated effluent from STP will be used for green belt.
3. There will be no process waste generated from the cement plant. All the dust (22,000 TPA) generated from APC devices will be recycled back for cement manufacturing. Used Oil and used lubricants (600 lit/year) would be collected in closed drums and will be sold to authorized reprocessing units. Sludge (0.4 TPA) from STP will be used as manure for green belt development. The kitchen waste will be vermin composted and used as manure for green belt development.
4. Ear muffs/ear plugs will be provided to workers working in high noise prone areas. Power requirement of 6.3 MW will be sourced from BSEB.
5. The Cement Grinding Units are listed at S.No. 3 (b) under Category "B" of the schedule of EIA Notification, 2006.

A. SPECIFIC CONDITIONS:

1. Particulate emissions shall be controlled within 50 mg/Nm³ by installing adequate air pollution control system viz. Bag filters and stacks of adequate height etc. Data on ambient air, fugitive and stack emissions shall be submitted to the MoEF Regional Office at Lucknow, SPCB and CPCB regularly.
2. The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 should be followed.
3. Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines/Code of Practice issued by the CPCB should be followed.
4. The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points, raw meal handling (unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas etc. All the raw material stock piles should be covered. A closed clinker stockpile system shall be provided. All conveyers should be covered with GI sheets. Covered sheds for storage of raw materials and fully covered conveyers for transportation of materials shall be provided besides cement, fly ash and clinker shall be stored in silos. Pneumatic system shall be used for fly ash handling.
5. Asphaltting/concreting of roads and water spray all around the stockyard and loading/unloading areas in the cement plant shall be carried out to control fugitive

- emissions. Regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM such as haul road, loading and unloading points, transfer points and other vulnerable areas. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
6. 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 should not be overloaded. Vehicular emissions should be regularly monitored.
 7. Total ground water requirement for the cement plant shall not exceed 200 m³/day and necessary permission for the drawl of water shall be obtained from the Competent Authority. All the treated wastewater should 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.
 8. Rainwater harvesting measures shall be adopted. The company must also harvest the rainwater from the roof tops and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.
 9. All the bag filter dust, raw meal dust, clinker dust and cement dust from pollution control devices should be recycled and reused in the process used for cement manufacturing. Spent oil and batteries should be sold to authorized recyclers / re-processors only.
 10. 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.
 11. At least 2 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on locals need and item-wise details along with time bound action plan should be prepared and submitted to the MoEF Regional Office at Lucknow. Implementation of such program should be ensured accordingly in a time bound manner.
 12. 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.
 13. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants shall be implemented.

B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the Uttar 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 SEIAA.UP.
- 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 Pollution Control 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, 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 UPPCB/CPCB and Regional Office, of MoEF at Lucknow 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 (nighttimes).
- vii. Occupational health surveillance of the workers should 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. As proposed, budget 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 MoEF at Lucknow. 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 Lucknow, CPCB and UPPCB. The criteria pollutant levels namely; PM₁₀, PM_{2.5}, SO₂, NO_x (ambient levels as well as stack emissions) 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, CPCB and UPPCB. The Regional Office of MoEF at Lucknow / 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 along with the status of compliance of environmental conditions and shall also be sent to the Regional Office of the MoEF at Lucknow.
- xv. The Project Proponent shall inform the public that the project has been accorded Environmental Clearance by the SEIAAUP and copies of the clearance letter are available with the SPCB and may also be seen at Website of the SEIAAUP at seiaaup.com. 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.
- xvi. Project authorities shall inform the Regional Office of MoEF, Lucknow as well as the SEIAA the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.

6. The SEAC/SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
7. The SEAC/SEIAA reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
8. 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 Trans-boundary Movement) Rules, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules and EIA Notification, 2006 including the amendments and rules made thereafter.
9. The issue of this amended Environmental Clearance replaces the earlier Environmental Clearance granted to Diamond Cements (Prop: Heidelberg Cement India Limited) vide letter No.EC 113/SEAC/136/2008 dated 21.01.2009.

The project proponent will have to submit approved plans and proposals incorporating the conditions specified in the Environmental Clearance within 03 months of issuance of this clearance. Failing this, the environmental Clearance shall be deemed to be cancelled.

Necessary statutory clearances should be obtained and submitted before start of any construction activity. In the event of the violation of the condition, the environmental clearance shall be automatically deemed to have been cancelled.

This is to request you to take further necessary action in the matter as per provision of Gazette Notification No. S.O. 1533(E) dated 14.9.2006 and send regular compliance reports to the authority as prescribed in the aforesaid notification.



(Dr. C.S. Bhatt)

Member Secretary,
SEIAA

Ref.: /Parya/SEAC/136/AD(H)/2011

Copy for necessary action to:

1. The Secretary, Environment, U.P. Govt., Lucknow.
2. Dr. P.L. Ahuja Rai, Director, IA Division. Ministry of Environment & Forests, Govt. of India, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi.
3. Chief Conservator, Ministry of Environment & Forests, Regional Office (Central Region), Kendriya Bhawan, 5th Floor, Sector-H, Aliganj, Lucknow.
4. The Member Secretary, U.P. Pollution Control Board, PICUP Bhawan, Gomti Nagar, Lucknow.
5. District Magistrate, Jhansi, U.P.
6. Guard file.


(O.P. Varma)
Secretary, SEAC and
Director, (I/c) Directorate of
Environment,
Govt. of U.P.