

F. No. J-11011/123/2009- IA II (I)  
Government of India  
Ministry of Environment and Forests  
(I.A. Division)

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Dated 27<sup>th</sup> February, 2010

To,  
M/s Jaiprakash Associates Limited  
Near Bagheri, Village, Tikri, (Padyana)  
Post: Khillian, Tehsil Nalagarh  
District Solan, Himachal Pradesh

E-mail : [pk.goel@lalindia.co.in](mailto:pk.goel@lalindia.co.in)

**Subject: Cement Grinding Unit (2.00 MTPA) and and Integrated multi-fuel based Captive Thermal Power Plant (10 MW) at Village Pandiyana (Tikri), Near Bagheri, Post Khillian, Tehsil Nalagarh, District Solan, Himachal Pradesh M/s Jaiprakash Associates Ltd. - Environment clearance reg.**

**Ref. : Your letter no. JAL/MOEF/HP/CGU/2009 dated 6<sup>th</sup> October, 2009.**

Sir,

Kindly refer your letter no. nil dated 28<sup>th</sup> July, 2008 alongwith project documents including Form I, draft TOR and Pre-feasibility Report and subsequent clarification furnished vide communications dated 15<sup>th</sup> January, 2009 regarding above mentioned cement project.

2.0 The Ministry of Environment and Forests has examined your application. It is noted that the proposal is for the Cement Grinding Unit (2.00 MTPA) and and Integrated multi-fuel based Captive Thermal Power Plant (10 MW) at Village Pandiyana (Tikri), Near Bagheri, Post Khillian, Tehsil Nalagarh, District Solan, Himachal Pradesh M/s Jaiprakash Associates Ltd. The total land required for the project will be 24.51 ha. PAs confirmed that no wild life sanctuary and national parks are located within 10 km radius of the plant site. No eco-sensitive areas are located within 15 km periphery of the plant. The total cost of the project is Rs. 450.00 Crores.

3.0 The raw material required for producing fly ash based pozzolona Portland cement will be clinker, fly ash, gypsum and coal. Rice husk and municipal waste will be used as fuel in the boiler.

4.0 Electrostatic precipitator (ESP), bag filters will be provided to keep particulate matter emissions below 50 mg/Nm<sup>3</sup>. No kiln is proposed. Fugitive dust generation during handling of coal and ash will be controlled by dust suppression methods. Roads will be paved. Total ground water requirement will be 748 m<sup>3</sup>/day as per 'Permission' accorded by the Central Ground Water Authority/State Ground Water Board (CGWA/SGWB). Water requirement will be reduced since air cooling system is proposed now and power generation is restricted to 10 MW CPP only. All the industrial wastewater will be recycled/reused in cement manufacturing process and green belt development. All the dust generated from air pollution control device will be recycled back in the process. Ash generated from the CPP will be used for the production of Pozzolona Portland Cement (PPC, 2.0 MTPA). Green belt will be developed in 33% area i.e. 8 ha.

*Issued*  
*3/3/10*



5.0 - Public Hearing/Public Consultation meeting was held on 7<sup>th</sup> September, 2009.

6.0 After considering the facts mentioned above and with due diligence, the Ministry of Environment and Forests hereby categorizes the project in category B-2 requiring no EIA/EMP and Public Hearing/Consultation and accords environmental clearance under the provisions of EIA Notification, 2006 subject to strict compliance to the following specific and general conditions:

**A. SPECIFIC CONDITIONS:**

- i) Capacity of the captive power requirement and D.G. sets for the proposed plant shall not exceed 10 MW and 1 x 10.89 MW.
- ii) Other necessary statutory clearances from the concerned Departments including 'No Objection Certificate' from the H. P. State Environment Protection & Pollution Control Board (HPSEP & PCB) shall be obtained prior to commencement of construction and / or operation.
- iii) Continuous on-line stack monitoring facilities to monitor gaseous emissions from all the stacks shall be provided. After expansion, limit of SPM shall be controlled within 50 mg/Nm<sup>3</sup> by installing adequate air pollution control system viz. Electrostatic precipitators, bag house, bag filters and stacks of adequate height etc. Interlocking facility shall be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit (s) is shut down automatically. Data on ambient air, fugitive and stack emissions shall be submitted to the Ministry's Regional Office at Chandigarh, H. P. State Environment Protection & Pollution Control Board (HPSEP & PCB) and CPCB regularly.
- iv) An action plan shall be prepared and submitted to the Ministry's Regional Office at Chandigarh for the control of SO<sub>2</sub> emissions from the captive power plant.
- v) Ambient air quality monitoring (AAQM) stations shall be set up as per statutory requirement in consultation with the H. P. State Environment Protection & Pollution Control Board (HPSEP & PCB). Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the State authorities. Monitoring of ambient air quality and shall be carried out regularly in consultation with HPSEP & PCB and data submitted to the CPCB and HPSEP & PCB regularly. The instruments used for ambient air quality monitoring shall be calibrated time to time.
- vi) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16<sup>th</sup> November, 2009 shall be followed.
- vii) 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 shall be followed. New standards for the sponge iron plant issued by the Ministry vide G.S.R. 414(E) dated 30<sup>th</sup> May, 2008 shall be followed.
- viii) The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points, raw mill handling (unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas etc. All the raw material stock piles shall be covered. A closed clinker stockpile system shall be provided. All conveyers shall be covered with GI sheets. Covered sheds for storage of raw materials and fully covered conveyers for transportation of



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materials shall be provided besides coal, cement, fly ash and clinker shall be stored in silos. Pneumatic system shall be used for fly ash handling. Water sprinkling arrangement shall be made in the raw material stockyard and cement bag loading areas.

- (ix) 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 shall be transported in the closed containers only and shall not be overloaded. Vehicular emissions shall be regularly monitored.
- x) 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 SPM and RPM 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.
- xi) Total water requirement for cement plant from bore wells shall not exceed 748 m<sup>3</sup>/day as per 'Permission' accorded by the Central Ground Water Authority/State Ground Water Board (CGWA/SGWB) and 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.
- xii) 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.
- xiii) All the bag filter dust, raw meal dust, coal dust, clinker dust and cement dust from pollution control devices shall be recycled and reused in the process and used for cement manufacturing. Spent oil and batteries shall be sold to authorized recyclers/reprocessors only. Sludge generated from sewage treatment plant (STP) shall be used as manure.
- xiv) All the fly ash shall be utilized as per Fly Ash Notification, 1999 subsequently amended in 2003. Efforts shall be made to use fly ash maximum in making Pozzolona Portland Cement (PPC).
- xv) Efforts shall be made to use low grade lime, more fly ash and solid waste in the cement manufacturing.
- xvi) As proposed, green belt shall be developed in at least 8 ha. (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.
- xvii) A Risk and Disaster Management Plan alongwith the mitigation measures shall be prepared and a copy submitted to the Ministry's Regional Office at Chandigarh, HPPCB and CPCB within 3 months of issue of environment clearance letter.
- xviii) All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Cement plants shall be implemented. ✓



- xix) All the commitments made to the public during the Public Hearing/Public Consultation meeting held on 7<sup>th</sup> September, 2009 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 Chandigarh.
- xx) At least 5 % of the total cost of the project shall be earmarked towards the corporate social responsibility and item-wise details alongwith time bound action plan shall be prepared and submitted to the Ministry's Regional Office at Chandigarh. Implementation of such program shall be ensured accordingly in a time bound manner.
- xxi) The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, 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 authority must adhere to the stipulations made by H. P. State Environment Protection & Pollution Control Board (HPSEP & PCB) and State Government.
- ii. No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.
- iii. Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19<sup>th</sup> May, 1993 and 31<sup>st</sup> December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.
- iv. 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 Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time). Compliance to all the standards for DG sets for noise shall be ensured and acoustic enclosures around DG sets shall be provided.
- v. Proper house keeping and adequate occupational health programmes must be taken up. All the persons working in the sensitive areas shall wear protective covers. Occupational Health Surveillance programme shall be done on a regular basis and records maintained. The programme must include lung function and sputum analysis tests once in six months.
- vi. The company shall undertake eco-development measures including community welfare measures in the project area.
- vii. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the Rapid and Comprehensive EIA/EMP.
- viii. A separate environmental management cell with full fledged laboratory facilities to carry out various management and monitoring functions shall be set up under the control of Senior Executive. ✓



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- ix. As proposed, Rs. 25 Crore earmarked towards capital cost and recurring cost/annum for environmental pollution control measures shall be used exclusively to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. A time bound action plan along with the implementation schedule for all the conditions stipulated herein shall be submitted to the Ministry, HPSEP & PCB and CPCB. The funds so provided shall not be diverted for any other purposes.
  - 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 MOEF, the respective Zonal Office of CPCB and the HPSEP & PCB. The criteria pollutant levels namely; SPM, RSPM, SO<sub>2</sub>, NO<sub>x</sub> (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 MOEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry / CPCB / HPSEP & PCB shall monitor the stipulated conditions.
  - xiii. The environmental statement for each financial year ending 31<sup>st</sup> 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 Offices of the MOEF 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 HPSEP & PCB 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 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.
  - xvi. The Regional Office of this Ministry at Chandigarh/Central Pollution Control Board/ HPSEP & PCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data alongwith statistical interpretation shall be submitted to them regularly.



- xvii. The 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.
- xviii. 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 HPSEP & PCB/Committee 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 shall be forwarded to the Regional office.

7.0 The Ministry or any competent authority may stipulate any further condition(s) on receiving reports from the project authorities. The above conditions shall be monitored by the Regional Office of this Ministry located at Chandigarh.

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

9.0 Any other conditions or alteration in the above conditions shall have to be implemented by the project authorities in a time bound manner.

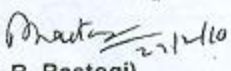
10.0 Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.

11.0 The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 the Air (Prevention and Control of Pollution) Act, 1981 the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 alongwith their amendments and rules.

  
(Dr. P. B. Rastogi)  
Director

Copy to :-

1. Chairman, H. P. State Environment Protection & Pollution Control Board, Paryavaran Bhavan, Phase-III, New Shimla - 171 009, H.P.
2. Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 110032.
3. Chief Conservator of Forests, (Wildlife)/Chief Wildlife Warden, Government of Himachal Pradesh, Shimla- 171 001, H.P.
4. The Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office (Northern Zone), Bays No. 24-25, Sector 31-A, Dakshin Marg, Chandigarh - 160 047.
5. Joint Secretary (CCI-I), Ministry of Environment and Forests, Paryavaran Bhawan, CGO Complex, New Delhi.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhawan, CGO Complex, New Delhi.
7. Guard File.
8. Monitoring File.
9. Record File.

  
(Dr. P. B. Rastogi)  
Director