



**State Level Environment Impact Assessment Authority
Madhya Pradesh
Government of India
Ministry of Environment & Forests**

Madhya Pradesh Pollution Control Board

E-5. Arera Colony
Bhopal-4620 16
visit us <http://www.mpseiaa.nic.in>
Tel:0755-2466970

No:471/ EPCO-SEIAA/10
Date: 02/02/2010

To,
M/s H K Kalchuri Education Trust
C/o Shri S K Chaukasi
31, Shamlia Hills,
Bhopal - M.P.

Sub: Prior Environmental Clearance to the proposed Hospital Complex of M/s H K Kalchuri Education Trust Teaching Hospital, Medical College, Dental College & Nursing College and Allied Services at Village Banjari Block Fandakala, Kolar road, Bhopal Case no. 217/2008

This has reference to your letter No. Nil dated 03/10/2008 and subsequent letters dated 20/01/2009, 05/03/2009 and 06/06/2009 seeking prior Environmental Clearance for the above project under the EIA Notification, 2006. The proposal has been appraised as per prescribed procedure in the light of provisions under the EIA Notification, 2006 on the basis of the mandatory documents enclosed with the application viz., the Questionnaire, EIA, EMP and the additional clarifications furnished in response to the observations of the Expert Appraisal Committee constituted by the competent authority in its meetings held on 21/04/09 and 11/06/09.

2. It is interalia, noted that the project involves the construction of a hospital and a medical college on a plot area of 106400 sq.m. The complex will have a 750 beds hospital, teaching complex, residential complex and public utility and infrastructure. The total water requirement is 585 KLD. The sewage generated during the operation phase will be treated up to the secondary level with chlorination a Sewage Treatment Plant (STP). The treated sewage of 421 KLD will be recycled/reused for horticulture, washing, external green belt development. Total solid waste generation will be 425 Kg/day and bio-medical waste generated will be 2250 Kg/day. The waste will be treated and disposed as

per the provisions of Bio-medical waste (Management and Handling) Rules 1988. The power requirement is 300 KVA. Total cost of the project is Rs.94.70 crores.

3. The Expert Appraisal Committee, after due consideration of the relevant documents submitted by the project proponent and additional clarifications furnished in response to its observations, have recommended for the grant of Environmental Clearance for the project mentioned above. Accordingly, the SEIAA considered the project in its 26th meeting held on 16/12/09 and decided to accept the recommendations of SEAC. You are hereby accord necessary Environmental Clearance for the above project as per the provisions of Environmental Impact Assessment Notification, 2006 and its subsequent amendments, subject to strict compliance of the terms and conditions as follows:

PART A - SPECIFIC CONDITIONS

I. Construction Phase

- (i) Consent for Establishment shall be obtained from M.P. Pollution Control Board under Air and Water Act and a copy shall be submitted to the Ministry before start of any construction work at the site.
- (ii) 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, 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.
- (iii) A First Aid Room will be provided in the project both during construction and operation of the project.
- (iv) All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.
- (v) Disposal of muck during construction phase should not create any adverse effect on the neighbouring communities and be disposed taking the necessary

precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.

- (vi) Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.
- (vii) Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dump sites for such material must be secured so that they should not leach into the ground water.
- (viii) Any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approvals of the M.P. Pollution Control Board.
- (ix) The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards.
- (x) The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from Chief Controller of Explosives shall be taken.
- (xi) Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.
- (xii) Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/ MPPCB.

- (xiii) Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003. As the site is located within the 100 Km of Thermal Power Stations.
- (xiv) Ready mixed concrete must be used in building construction.
- (xv) Storm water control and its re-use as per CGWB and BIS standards for various applications.
- (xvi) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- (xvii) Permission to draw ground water shall be obtained from the competent Authority prior to construction/operation of the project.
- (xviii) Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.
- (xix) Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.
- (xx) Use of glass may be reduced by up to 40% to reduce the electricity consumption and load on air conditioning. If necessary, use high quality double glass with special reflective coating in windows.
- (xxi) Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.
- (xxii) Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code which is proposed to be mandatory for all air-conditioned spaces while it is aspirational for non-air conditioned spaces by use of appropriate thermal insulation material to fulfill requirement.

- (xxiii) The approval of the competent authority shall be obtained for structural safety of the buildings due to earthquake, adequacy of fire fighting equipments, etc. as per National Building Code including protection measures from lightening etc.
- (xxiv) Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to the surroundings.
- (xxv) Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environmental clearance.

II. Operation Phase

- (i) The installation of the Sewage Treatment Plant (STP) of 500 KLD capacity should be certified by an independent expert and a report in this regard should be submitted to the Ministry before the project is commissioned for operation. Treated affluent emanating from STP shall be recycled/reused to the maximum extent possible. Treatment of 100% grey water by decentralized treatment should be done. Discharge of unused treated affluent shall conform to the norms and standards of the M.P. Pollution Control Board. Necessary measures should be made to mitigate the odour problem from STP.
- (ii) The bio-medical waste generated should be disposed off as per the provisions of Bio-medical waste (Management and Handling) Rules 1988.
- (iii) The solid waste generated should be properly collected and segregated. Wet garbage should be composted and dry / inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.
- (iv) Diesel power generating sets proposed as source of back up power for elevators and common area illumination during operation phase should be

of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with M.P. Pollution Control Board.

- (v) Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.
- (vi) The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.
- (vii) Weep holes in the compound walls shall be provided to ensure natural drainage of rain water in the catchment area during the monsoon period.
- (viii) Rain water harvesting for roof run- off and surface run- off, as plan submitted should be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease. The bore well for rainwater recharging should be kept at least 5 mts. above the highest ground water table.
- (ix) The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority.
- (x) Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.
- (xi) A Report on the energy conservation measures confirming to energy conservation norms finalize by Bureau of Energy Efficiency should be prepared incorporating details about building materials & technology, R & U Factors etc and submit to the Ministry in three months time.

- (xii) Energy conservation measures like installation of CFLs/TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible.
- (xiii) Adequate measures should be taken to prevent odour problem from solid waste processing plant and STP.
- (xiv) The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.

PART B. GENERAL CONDITIONS

- (i) The environmental safeguards contained in the EIA Report should be implemented in letter and spirit.
 - (ii) The project proponent shall also submit six monthly reports on 1st June and 1st December of each calendar year on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the SEIAA of M.P., Regional Office of MoEF, Bhopal, the respective Zonal Office of CPCB and the SPCB.
4. Officials from the Regional Office of MOEF, Bhopal who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents / data by the project proponents during their inspection. A complete set of all the documents submitted to SEIAA should be forwarded to the CCF, Regional office of MOEF, Bhopal.
5. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by the SEIAA.

6. The Ministry/SEIAA reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
7. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.
8. These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.
9. The project proponent should advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the M.P. Pollution Control Board and may also be seen on the website of the State Level Environment Impact Assessment Authority (SEIAA) at www.mpseiaa.nic.in. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional office of this Ministry at Bhopal.
10. 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.
12. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad/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 website of the company by the proponent.

13. The proponent shall upload the status of compliance of the stipulated EC 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 MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
14. 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 EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.

Sd/-

(Manoj Govil)

Member Secretary, SEIAA

Endt No. 472 /SEIAA/EPCO/10

Dated:02/02/2010

Copy to:-

1. The Secretary, Department of Housing & Environment, Government of Madhya Pradesh, Mantralaya, Bhopal
2. The Collector, Distt-Bhopal
3. The Member Secretary, Madhya Pradesh State Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal-462016
4. IA-Division, Monitoring Cell, MoEF, Govt. of India, CGO Complex, Lodhi Road, New Delhi- 110 003
5. The Jt. Director, Town & Country Planning, Bhopal
6. The Regional Officer, MOEF, Bhopal
7. Municipal Officer, Nagar Palika, Kolar, Bhopal
8. Guard file.

Sd/-

(Manoj Govil)

Member Secretary, SEIAA