State Environment Impact Assessment Authority, M.P.
(Government of India, Ministry of Environment & Forests)

Research and Development Wing
Madhya Pradesh Pollution Control Board
Paryavaran Parisar, E-5. Arera Colony
Bhopal-4620 16
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No: 1262 / SEIAA /13
Date: 26-7-13

To,
Col.Raja Sekhar. Registrar,
IIT, Indore, Institute of Engg. & Technology,
DAVV Campus, Khandwa Road,
Indore- 452017
Ph. No. 0731-2438718, 2438768
E-mail. :

Sub: -Case No. 973/2012 – Prior Environmental Clearance for Proposed Indian Institute of Technology at village – Simrol, Tehsil Mhow, Distt.- Indore(M.P.) , Total Land Area – 501.42 Acres (202.918 ha), Total Built Up Area – 12,65,179.45 sq. mt. by Director, IIT, Indore, Ministry of Human Resource Deptt., Govt. of India through Col. Raja Sekhar. Registrar, IIT, Indore, Institute of Engg. & Technology, DAVV Campus, Khandwa Road, Indore- 452017.

This has reference to your application No. IITI/project/EC/2012/02, dated 05.11.2012 received in SEIAA office on 24.11.2012 for 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 and on the basis of the mandatory documents enclosed with the application viz., Form I, Form IA, Conceptual Plan, drawings and subsequently submission of EIA & the additional clarifications furnished in response to the observations of the State Expert Appraisal Committee (SEAC) and State Environment Impact Assessment Authority (SEIAA) constituted by the competent Authority.

(ii). The proposed project is construction of Indian Institute of Technology, Indore at village – Simrol, Tehsil Mhow, Distt.- Indore(M.P.) , Total Land Area – 501.42 Acres, Total Built Up Area – 12,65,179.45 sq. mt. by Ministry of Human Resource Deptt., Govt. of India through Col. Raja Sekhar. Registrar, IIT, Indore, Institute of Engg. & Technology,DAVV Campus, Khandwa Road, Indore- 452017.

(iii). As per the approval of T & CP Indore (vide Let. No.7713 dtd.11/12/12) the total land area is 202.918 ha at village – Simrol, Tehsil Mhow, Distt.- Indore(M.P.)

(iv). The total built up area proposed by PP is 12, 65,179.45 sq mt. and total plot area is more than 50 ha & construction is more than 1,50,000 sq mt. hence the project comes under 8 (b) category (B1) of schedule of EIA Notification, 2006.

(v). The total land of the project is 501.42 acres (202.918ha) out of this 80.0 ha is forest land for which stage -1 approval of Govt. of India Ministry of Environment & Forests (vide F. No. B-109/2010-FC dtd 03.06.11) under Forest

- **Correspondence Address:** Member Secretary, SEIAA, Environmental Planning and Coordination Organisation (EPCO), Paryavaran Parisar, E-5, Arera Colony, Bhopal - 462016
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Case no. 973/2012

(Conservation) Act 1980 has been given and the land has been transferred to revenue Deptt. and allocated to PP.

The breakups of the land are as follows: -

a) 29.02 acres (11.755 ha) of land is of MP Govt. Technical Education Deptt. and has been allotted to IIT, Indore vide allotment order no. F-1-52/2008/42-1 dtd 18.03.2013 for which the lease deed was made for 30 years (23.05.13 to 22.05.2043).

b) 432.18 acres (174.949 ha) land is Madhya Pradesh Govt. Revenue Department land and is in the name of IIT, Indore, GoI for which lease was made in favour of IIT, Indore for 30 years (27.06.2012 to 26.06.2042).

c) 40.28 acres (16.315 ha) land is Madhya Pradesh Govt. –Revenue Deptt. land and has been allotted to IIT, Indore through allotment order (vide no. F-16-5/2013/7/2-A dtd. 04.04.2013) and permanent lease has been made for 30 years (23.05.2013 to 22.05.2043).

(vi). The project includes construction of building for Academics (10), Lecture Halls (03), Central Facility (Library, Administration, Workshop, Auditorium, Guest House, Indus. Res. Work, Nat. Inst. of Design, Central Hub)- (10), Residential Faculty House, Studio Aptt., Girls & Boys hostel, Director Residence (50), Amenities Comm., Dinning, Faculty Club, School, Primary Health & Sports Complex (11). The maximum height of the building is 30 m. The width of internal main road is 30.0 m, Front MOS 12.0 m. and side / rear MOS 7.50 m.

(vii). The total water requirement is 6705 KLD and fresh water requirement is 4155 KLD. The total recycled water 2550 KLD. Regarding source of water supply Provisional NOC of Indore Municipal Corporation (vide 1216/MC/11 dtd 31.12.11) for supply of 5.0 MLD water and from NVDA (vide let. No.13/PS dtd. 02/02/13) for 4.5 MLD (from Narmada-Kshipra-Simhastha link Project)

(viii). The total waste water generation is 2835 m^3 / day. Sewage treatment plant of 3000 & 400 KLD is proposed. For the treatment of lab effluents ETP- modular type (capacity of 5 to 10 KLD) are proposed. The total treated waste water is 2550 KLD, which is proposed to be recycled. Out of this 1050 KLD will be used in flushing + 320 KLD in HVAC system and rest is proposed to be used in horticulture. Seven water bodies shall be constructed for trapping the storm water and there will be no discharge of treated waste water outside the campus.

(ix). Approximately 8650 kg/day of Municipal Solid waste shall be generated which is proposed to be disposed in sets of two bins of 200 lit capacity each placed at the strategically locations at hostel, academic building, canteen, staff quarters etc. An area of 8, 74,649.4 sq mt. shall be covered under plantation.

(x). PP has obtained GRIHA registration from ADRSH, New Delhi and is in the process of obtaining GRIHA certification.

(xi). The project has been considered in accordance with the provisions of the EIA notification issued by the Ministry of Environment & Forests vide S.O. 1533 (E), dated 14th September 2006 and its amendment.

(xii). Based on the information submitted at Para ii to ix above and others, the State Level Environment Impact Assessment Authority (SEIAA) considered the case in its 142nd meeting held on 18.07.2013 and decided to accept the

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recommendations of 126th SEAC meeting held on 10.04.2013 with 08 special conditions.

Hence, Prior Environmental Clearance is accorded under the provisions of EIA notification dtd. 14th September 2006 subject to conditions mentioned in 138th SEIAA meeting dtd 20.06.2013 to the proposed Indian Institute of Technology at village – Simrol, Tehsil Mhow, Distt.- Indore(M.P.) Total land Area – 501.42 Acres (202.918 ha), Total Built Up Area – 12,65,179.45 sq. mt. by Director,IIT, Indore, Ministry of Human Resource Deptt., Govt. of India through Col. Raja Sekhar. Registrar, IIT, Indore, Institute of Engg. & Technology,DAVV Campus, Khandwa Road, Indore subject to the compliance of the Standard Conditions enclosed at **Annex-I** and the following additional Specific Conditions as recommended by SEIAA & SEAC:

(1). The entire demand of fresh water should be met from Municipal Supply and there should be no extraction of ground water.

(2). The disposal of extra treated waste water if any should be linked with the Municipal sewer line.

(3). The minimum width of the internal main road from gate to reach the building within the campus should not be less than 24 m as per MP Bhumi Vikas Niyam 2012, Rule No. 42 in view of MoEF, GoI office memorandum F-21-270/2008-IA.III dtd. 06.06.2013.

(4). The PP should provide car parking for 10121 ECS as per the MPBVR, 2012 Rule no. 84 (1) Appendix I-1, I-3.

(5). The final disposal of Municipal solid waste should be integrated with the Municipal Corporation, Indore

(6). Seven water bodies shall be developed for trapping the storm water. Of these 04 water bodies are existing and 03 shall be created using the slopes of the region.

(7). Water quality of all such water bodies shall be regularly monitored and maintained by way of installation of appropriate treatment system in each of the water body.

(8). COC of at least 06 has to be maintained in cooling tower of HVAC.

(9). TDS of the blow-down has to be maintained below 2000 ppm before final disposal.

(10). Explore the possibility for installation of aerobic system for treatment of MSW / Sewage instead of anaerobic to avoid the adverse impacts that may emerge in case of poor operation and maintenance of such systems.

(11). All hazardous wastes including the used oil, resins from water treatment plants & ETP sludge etc, likely to generate from the campus shall be disposed off in the CTSDF.

(12). Plantation in the campus shall be carried out in consultation with CCF Indore.

(13). Indore region falls under Seismic Zone – III, accordingly all structural and construction measures shall be planned and implemented.

Encl: Annex-I (General Conditions)

(Manohar Dubey)
Member Secretary

Endt No. 1263 / SEIAA/ 13 Dated 26.7.13 o/c

Copy to:-

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Case no. 973/2012

1. Principal Secretary, Housing and Environment Department, Government of Madhya Pradesh, Mantralaya, Bhopal.
2. Member Secretary, SEAC, Research and Development Wing Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5. Arera Colony Bhopal-462016.
3. Member Secretary, Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal-462016.
4. The Collector, Distt- Indore -M.P.
5. The Commissioner, Municipal Corporation, Indore.
6. The Jt. Director, Town & Country Planning, Indore.
7. I.A. Division, Monitoring Cell, MoEF, GoI, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi- 110 003.
8. Director (S), Regional office of the MOEF, (Western Region), Kendriya Paryavaran Bhawan, Link Road No. 3, Ravi Shankar Nagar, Bhopal-462016.
9. Guard file.

Encl: Annex-I (General Conditions)

o/c (Dr. Vinita Vipat)
Officer-in-Charge

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Paryavaran Parisar, E-5. Arera Colony, Bhopal-4620 16

Annex-I

Standard Conditions related to under item 8 (a) & 8 (b) of the schedule of EIA notification, 2006
(Building/ construction projects / area development projects & township)

A. Construction Phase

1. The construction site shall be provided with adequately barricades of at least 3 m height on its periphery with adequate signage.
2. All required sanitary and hygienic measures should be in place before starting any construction work and are to be maintained throughout the project phase.
3. 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.
4. Occupational health and safety measures for the workers including identification of work related health hazards, training on malaria eradication, HIV, and health effects on exposure to dust etc. shall be carried out. Periodic monitoring for exposure to respirable dust on the workers shall be conducted and records maintained including health records of the workers. Awareness programme for workers on impact of dust on their health and precautionary measures like use of personal equipments etc. shall be carried out periodically.
5. A First Aid Room will be provided in the project both during construction and operation of the project.
6. All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.
7. 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.
8. 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.
9. Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate water courses and the dump sites for such material must be secured so that they should not leach into the ground water.
10. 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.

13.4.12
(Dr R P Singh)
Officer-in-Charge

Vipat 13.4.12
(Dr Vinita Vipat)
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(Dr Sadhna Tiwari)
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11. The diesel generator sets (if any) 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.
12. The diesel required (if any) for operating DG sets shall be stored in underground tanks and if required, clearance from Chief Controller of Explosives shall be taken.
13. Wastewater generated from temporary leabour tents will be diverted to the sewer network in the area.
14. No water logging should take place at any point during construction phase.
15. If the project site is located within the 100 km of Thermal Power Stations, then 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.
16. As far as possible ready mixed concrete should be used in construction work.
17. 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.
18. 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.
19. Storm water control and its use should be as per CGWB and BIS standards for various applications.
20. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
21. Care shall be taken during the wet drilling activities.
22. Spread of contaminated water should be prevented by installing temporary barriers of G.I. Sheets.
23. To prevent surface and ground water contamination by oil/grease, leak proof containers shall be used for storage and transportation of oil/grease. The floors of oil/grease handling area will be kept effectively impervious.
24. On-site burning of waste material will not be permitted.
25. Ground water should not be used during construction phase. Private tanker water suppliers may be asked to supply water during construction phase.
26. Commitment towards CSR have to be followed strictly.
27. 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.

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28. Wherever possible, the area around the STP / ETP should be surrounded with dense green belt.

29. To reduce the electricity consumption and load on air conditioning, high quality double glass with special reflective coating in windows should be promoted.

30. Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.

31. 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.

32. 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.

B. Operation Phase

1. The installation of the Sewage Treatment Plant (STP) as submitted by PP in the office of SEIAA should be certified by an independent expert and a report in this regard should be submitted to the Regional office of the Ministry of Environment & Forest, GoI before the project is commissioned for operation. Treated effluent discharge from STP shall be recycled/reused to the maximum extent possible. Treated effluent 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.
2. Treated waste water should not be used for air conditioning.
3. Treatment of 100% grey water by decentralized treatment should be done.
4. The bio-medical waste (if applicable) generated should be disposed off as per the provisions of Bio-medical waste (Management and Handling) Rules 1988 as amended till date.
5. Provision of separate entrance / exit gate should be made for collection of segregated bio-medical waste (if applicable) from the storage area.
6. 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 as per CPCB norms.
7. Diesel power generating sets if proposed as source of back up power for elevators and common area illumination during operation phase should be of enclosed type and confirm 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. Low sulphur diesel must be used. The location of the DG sets may be decided with in consultation with Madhya Pradesh Pollution Control Board.

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8. No water logging should take place at any point during operation phase.
9. The Project Proponent shall explore the possibility of using solar energy wherever possible.
10. Provision for plantation has to be made as per Madhya Pradesh Bhumi Vikas Niyam, 1984.
11. Any hazardous waste generated during operation phase, should be disposed off as per applicable rules and norms with necessary approvals of the M.P. Pollution Control Board.
12. Noise should be controlled to ensure that it does not exceed the prescribed standards of CPCB.
13. Weep holes in the compound walls shall be provided to ensure natural drainage of rain water in the catchment area during the monsoon period.
14. Rain water harvesting for roof run- off and surface run- off, 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.
15. The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority.
16. 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.
17. 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 Regional office of Ministry of Environment & Forest, GoI in three months time.
18. 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. Used 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.
19. The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.
20. The area earmarked for the parking shall be used for parking only. No other activity shall be permitted in this area.
21. Ozone Depleting Substances (Regulation & Control) Rules shall be followed while designing the air conditioning system (if any) of the project.

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C. Others

1. All activities / mitigative measures proposed by PP in Environmental Impact Assessment (if applicable) and approved by SEAC must be ensured.
2. All activities / mitigative measures proposed by PP in Environmental Management Plan and approved by SEAC must be ensured.
3. All parameters listed in Environmental Monitoring Plan approved by SEAC must be monitored at approved locations and frequencies.
4. Project Proponent has to strictly follow the direction/guidelines issued by MoEF, CPCB and other Govt. agencies from time to time.
5. The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year wise expenditure shall be reported to the MoEF, GoI, and its Regional Office located at Bhopal.
6. The Ministry or any other competent authority may alter/modify the conditions or stipulate any further condition in the interest of environment protection.
7. The Environmental Clearance shall be valid for a period of five years from the date of issue of this letter.
8. 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 to the regulatory Authority in hard and soft copies.
9. The Regional Office, MoEF, GoI, Bhopal and MPPCB shall monitor compliance of the stipulated conditions. A complete set of documents including Environment Impact Assessment Report. Environmental Management Plan and other documents information should be given to Regional Office of the MoEF, GoI at Bhopal and MPPCB.
10. The Project Proponent shall inform to the Regional Office, MoEF, GoI, Bhopal and MP PCB regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
11. In the case of expansion or any change(s) in the scope of the project, the project shall again require prior Environmental Clearance as per EIA notification, 2006.
12. The SEIAA of M.P. 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.
13. 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 and when applicable), by the project proponent from the respective competent authorities.

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14. 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.

15. 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, SO_2, NOx (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 and in the public domain.

16. 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 Regional Office of MoEF.

17. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

18. A copy of the environmental clearance shall be submitted by the Project Proponent to the Heads of the Local Bodies, Panchayat and municipal bodies as applicable in addition to the relevant officers of the Government who in turn has to display the same for 30 days from the date of receipt.

19. The Project Proponent shall advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at website of the State Level Environment Impact Assessment Authority (SEIAA) at **www.mpseiaa.nic.in** and a copy of the same shall be forwarded to the Regional Office, MoEF, GoI, Bhopal.

20. Any appeal against this prior environmental clearance shall lie with the Green Tribunal, if necessary, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

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