

State Environment Impact Assessment Authority (SEIAA), Bihar
BELTRON Bhawan, 2nd Floor, Shastri Nagar, Bailey Road,
Patna – 800 023

Ref. No. *57*

Patna, date: *14/4/15*

From,

Dr. R.C. Sinha
 Chairman
SEIAA, Bihar

To,

The Director,
 Indira Gandhi Institute of Medical Sciences (IGIMS)
 Seikhpura
 Bailey Road
 Patna- 800014.

**Sub: ENVIRONMENT CLEARANCE FOR PROPOSED MEDICAL COLLEGE,
 HOSTEL & RESIDENTIAL QUARTERS**

Sir,

With reference to your letter No. 515/A/EC/13 dated 02.12.2013 for environment clearance as per EIA Notification 2006, of proposed Medical College, Hostel & Residential Quarters within existing premises of IGIMS at Patna, the proposal has been examined by SEAC and processed in accordance with the EIA Notification, 2006 and its amendment thereof. It is noted that the salient features of the project for which Environmental clearance has been accorded by SEIAA is as follows :

Name of the Project	Medical College, Hostel & Residential Quarters
Project Proponent	Indira Gandhi Institute of Medical Sciences
Type of the Project	Building and Construction Project
Category of the Project	B (a) – B ₂
Project Location	Govt. land within existing premises of IGIMS, Seikhpura, Patna
Total no. of trees to be felled	NIL

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Geo-coordinates of the Site		Latitude	Longitude
	Proposed Medical College	25°36'40.46"N	85° 5'20.18"E
	Proposed Boys Hostel	25°36'37.11"N	85° 5'10.68"E
	Proposed Residential Type D	25°36'49.39"N	85° 5'23.68"E
	Proposed Residential Type E	25°36'50.56"N	85° 5'13.78"E
Nearest Railway Station	Patna Jn. – 7 km		
Nearest Airport	J.P. Narain Airport – 2 km		
Nearest River	River Ganga – 6 km		
Total Plot Area	495262.38 sq. m. OR 122.38 Acres		
Ground Coverage for proposed Buildings	9124.78 Sq. M.		
Total Built-up Area for proposed Buildings	40471 Sq. M.		
No. of Buildings	4 Nos.		
Maxm. Height of Building (Medical College)	23.1 m.		
Maxm. Height of Building (Boys Hostel)	16.9 m.		
Maxm. Height of Building (Residential Type D & E)	14.85 m.		
Total Green Area	194764.41 Sq. M.		
Water Requirement	Maximum requirement : 60 m ³ /day		
Source of water	Primary source: Govt. Water supply Secondary source: Water recovered from STP Standby source: Bore wells/Water tankers.		
Waste water generated	Approx. 52 m ³ /day waste water will be generated		
Waste water treatment	All waste water generated will be treated in STP and reused for makeup water in HVAC cooling towers, flushing, for landscape irrigation & fire water storage.		
Capacity of STP	60 m ³ /day based on Moving Bed Bio Reactor (MBBR) process.		
Rain water harvesting	Rain water from the roof of the building to be collected & discharged into the surface rain water channels network at the ground level, filtered & finally discharged into ground water		

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	recharging wells. Rain water storage not proposed.
Solid waste generation	Excavation waste, construction wastes will be generated during construction stage. Approx. 181 Kg/day solid waste will be generated from proposed Buildings in the form of domestic waste (@0.36 Kg per capita). Approx. 10 Kg/day of Bio Medical Waste will be generated from the proposed medical college premises
Disposal of waste	Excess excavated earth to be used for filling & landscape development, Construction debris disposal through Patna Municipal Corporation for collection & disposal of municipal solid wastes. Waste paints, empty paint cans, empty drums of solvents, thinners & other materials used for interior decoration & furniture etc. to be disposed off as per guidelines of Environment (Protection) Act 1986. Bio Medical Waste will be send to Common Bio Medical Waste Treatment Plant (Bio Medical Waste Incineration Facility) inside the premise of IGIMS for treatment.
Emissions	(i) Exhaust emission from DG sets (ii) Dust emissions from construction activities
Noise	Noise up to 65 db(A) will be generated during construction activities & during operation phase 45-50 dB(A).
Energy requirement	Estimated Load: 1418 KVA
Energy source	Primary source: BSEB Alternative source: DG sets – 2 nos. (7500 KVA DG sets)
Energy Conservation	(i) Variable speed chiller package (ii) Solar heating system & solar energy for street lighting & emergency lighting as per the proposed plan submitted. (iii) CO sensors to monitor indoor air quality (iv) Low thermal transmission co-efficient for building envelope (v) Compact Fluorescent Lamps for office areas & corridors

R. C. Sharma
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	(vi) LED lamp fitting (vii) Dimmers for public area lighting (viii) Timers for corridors & photoelectric sensors to be used to switch ON/OFF external landscape lighting
Parking facilities	(i) Four-wheeler: 88 nos. (ii) Two-wheeler: 60 nos.
Green-belt development	There is existing 194764.41 Sq. M. (78.66% of total area) open green area available within the premises of IGIMS. Existing green belt shall be developed & maintained in more precise manner.
Fire Safety Management	(i) <u>Fire Detection & Alarm System</u> <ul style="list-style-type: none"> • Fire detectors to be installed above & below the false ceiling • Hooters (sounders) & manual call points units to be provided at the exit and/or at every 30 m • Control modules to be provided to shut-off AC units in the event of fire detection & isolation modules to reduce the faults to minimum in case of wiring/detector fault (ii) <u>Fire Fighting System</u> <ul style="list-style-type: none"> • Water storage for the hydrant & sprinkler system proposed • Standby pump of hydrant to act as standby pump for sprinkler system • Provision of 5 kg fire extinguisher at all internal hydrant location and other strategic points
Evacuation plan in case of disaster	Emergency pathways and assembly point in case of any disaster marked; Evacuation plan to be displayed at Entrance lobby, Guard room, each floor & at other strategic points. Emergency alarm in case of evacuation situation
Environmental Management Plan	Budget for Environmental Monitoring Program: Rs. 3,92,000/-annum
Statutory Compliances	(i) Planning report submitted by PMC. (ii) Applied for Height Clearance from Airport Authority of India vide letter dt: 07.03.2014.

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	(iii) Approval from State Fire Officer, Bihar vide letter No. 3203 dt: 30.10.2013.
Total cost of the project	Approx 133.0 Crores

PART A – GENERAL CONDITIONS

I. Pre- Construction Phase

- (i) Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel (kerosene/gas) for cooking, safe drinking water, medical health care, etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- (ii) Provision of drinking water, waste water disposal, solid wastes management and primary health facilities shall be ensured for labour force. Proper sanitation facilities shall be provided at the construction site to prevent health related problem. Domestic as well as sanitary wastes from construction camps shall be cleared regularly.
- (iii) Adequate safety measures shall be adopted for the construction workers.
- (iv) All the labourers to be engaged for construction works shall be screened for health and adequately treated before issue of work permits. The contractor shall ensure periodic health check-up of construction workers.
- (v) Fencing of the project boundary before start of construction activities.
- (vi) Use of energy efficient construction materials shall be ensured to achieve the desired thermal comfort.
- (vii) Use of fly ash based bricks/blocks/tiles/products shall be explored to the maximum extent possible.
- (viii) Lay out of proposed buildings and roads within premises etc. shall be made in such a way that it shall cause minimum disturbance to existing flora and fauna. Appropriate green belt shall be developed to compensate the habitat loss of tree cutting (if any) from competent authority as per prevailing Act/Rules. The exotic species existing within the existing premises, if any, shall be protected. The greening programme shall include plantation of both exotic and indigenous species.
- (ix) Dedicated pedestrian paths shall be provided along the proposed Buildings. Appropriate access shall be provided for physically challenged people in the pedestrian paths.


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- (x) The design of service roads and the entry and exit from the buildings shall conform to the norms & standards prescribed by the State Public Works Department.
- (xi) The road system shall have the road cross sections for general traffic, exclusive ways for public mass transport (bus) system, pedestrian paths and ways, utility corridors and green strip.
- (xii) The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which should be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the Bihar State Pollution Control Board and may also be seen on the website of the SEIAA, Bihar. 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 Bhubaneswar.
- (xiii) Risk Assessment study along-with Disaster Management Plan (DMP) shall be prepared. The mitigative measures for disaster prevention and control shall be prepared and get approval from competent authority. All other statutory clearances/ licenses/permissions from concerned State Government Departments, Boards and Corporations shall be obtained for development of Building Complex. Project proponent shall follow direction issued by Central Government/ State Government, Central Pollution Control Board/ Bihar State Pollution Control Board.

II. Construction Phase

- (i) It shall be ensured that the construction debris is properly stored on the site prior to disposal. Such requirements shall be made part of the contractor agreement.
- (ii) All the top soil excavated during construction activities shall be stored for use in horticulture/landscape development within the project site. Proper erosion control and sediment control measures shall be adopted.
- (iii) Earth material generated from excavation shall be reused to the maximum possible extent as filling material during site development. The construction debris and surplus excavated material shall be disposed off by mechanical transport through the Patna Municipal Corporation.
- (iv) Disposal of muck including excavated material during construction phase shall not create any adverse effects on the neighboring communities and


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- disposed off taking the necessary precautions for general safety and health aspects.
- (v) Low sulphur diesel generator sets should be used during construction phase. Diesel generator sets during construction phase shall have acoustic enclosures and shall conform to Environment (Protection) Rules, 1986 prescribed for noise emission standards.
 - (vi) All vehicles/equipments deployed during construction phase shall be ensured in good working condition and shall conform to applicable air and noise emission standards. These shall be operated only during non-peaking hours.
 - (vii) Ambient noise levels shall conform to the standards prescribed by MOEF, Govt. of India.
 - (viii) The protective equipments such as nose mask, earplugs etc. shall be provided to construction personnel exposed to high noise levels.
 - (ix) Construction spoils, including bituminous material and other hazardous materials including oil from construction equipments must not be allowed to contaminate soil/ground water. The dumpsites for such material must be secured so that they shall not leach into the ground water.
 - (x) Proper and prior planning, sequencing and scheduling of all major construction activities shall be done. Construction material shall be stored in covered sheds. Truck carrying soil, sand and other construction materials shall be duly covered to prevent spilling and dust emission. Adequate dust suppression measures shall be undertaken to control fugitive dust emission. Regular water sprinkling for dust suppression shall be ensured.
 - (xi) Use of Ready-Mix concrete is recommended for the project.
 - (xii) Accumulation/stagnation of water shall be avoided ensuring vector control.
 - (xiii) Regular supervision of the above and other measures shall be in place all through the construction phase so as to avoid disturbance to the surroundings.
 - (xiv) Water during construction phase should be preferred from Municipal supply.
 - (xv) All directions of the Airport Authority, Director of Explosives and Fire Department etc. shall be complied
 - (xvi) Unskilled construction laborers shall be recruited from the local areas.

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- (xvii) Provisions shall be made for the integration of solar water heating system.
- (xviii) Provision of vermin-composting for the biodegradable solid wastes generated from the proposed extension buildings as well as the large amount of biomass that shall be available from the tree plantation shall be made.
- (xix) Monitoring of ground water table and quality once in three months shall be carried out. Construction of tube wells, bore wells shall be strictly regulated.
- (xx) Permeable (porous) paving in the parking areas, and walkways should be used to control surface runoff by allowing storm water to infiltrate the soil and return to ground water.
- (xxi) All intersections shall be designed and developed as roundabouts.
- (xxii) All utility lines (electricity, telephone, cable, water supply, sewage, drainage, etc.) shall be laid below ground level. Ducts shall be provided along and across the roads to lay the utility lines. Major trunk (water/sewerage) lines are to be laid along the utility corridor.
- (xxiii) The road drainage shall be designed to enable quick runoff of surface water and prevent water logging.
- (xxiv) Adequate provision shall be made to cater the parking needs. Parking spaces standards as given in "Manual on Norms and Standards for Environmental Clearance of Large Construction Projects" issued by Ministry of Environment and Forests, Government of India shall be adopted.
- (xxv) Rest room facilities shall be provided for service population.

Water Body Conservation :-

- (i) Water body falling within premises (if any) shall not be lined or no embankment shall be cemented. The water bodies, if any, shall be kept in natural conditions without disturbing the ecological habitat.
- (ii) Improvement or rehabilitation of existing drain (if any) shall be carried out without disturbing the ecological habitat.

III. Post Construction / Operation Phase

- (i) The environmental safeguards and mitigation measures contained in the application shall be implemented in letter and spirit.

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- (ii) All the conditions, liabilities and legal provisions contained in the Environmental Clearance shall be equally applicable to the successor management of the project in the event of the project proponent transferring the ownership, maintenance of management of the project to any other entity. Ground water shall not be abstracted without prior permission from the competent authority.
- (iii) The Storm water management plan shall be implemented in such a manner that the storm water is discharged through an existing dedicated Storm water outfall only.
- (iv) The height of the stack of the DG sets should be as per norms of CPCB.
- (v) Medical (First-Aid) facility must be provided for visitors & employees. Para-medical staff should be attached as Medical facility provider.
- (vi) Plantation along the side of the buildings & roads and in the open spaces shall be developed to act as sinks of air pollutants. The plantation of trees shall be completed in the construction stage. The plantations shall consist of mixture of available indigenous, fast growing and sturdy species of trees, shrubs and herbs. Preferential plantation of flowering trees with less timber and fruit value shall be carried out.
- (vii) Two chambered container or two separate containers (one for recyclable wastes and other for all organic and compostable wastes) shall be placed at appropriate distance on the roadsides and inside the building. Covered dustbins/ garbage collector in convenient places to collect the municipal solid wastes shall be provided.
- (viii) Proper composting / vermin - composting of municipal solid wastes shall be carried out. All municipal solid wastes shall be segregated, collected, transported, treated and disposed as per provisions of the Municipal Solid Wastes (Management and Handling) Rules, 2000 (As amended).
- (ix) The use of hand gloves, shoes and safety dress for all waste collectors and sorters shall be enforced.

IV. Entire Life of the Project

- (i) The project proponent should implement Environmental Monitoring Programmed as per details submitted in EMP.
- (ii) No expansion/modification activity should be carried out obtaining prior Environmental Clearance as per EIA Notification 2006.


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PART B – SPECIFIC CONDITIONS

I. Pre- Construction Phase

- (i) Project Proponent should obtain prior Consent to Establish (NOC) under Sec. 25 & 26 of The Water (Prevention & Control of Pollution) Act' 1974 and under Sec. 21 of The Air (Prevention & Control of Pollution) Act' 1981 from State Pollution Control Board before start of construction activities.
- (ii) Project Proponent should obtain prior permission for ground water withdrawal from CGWA/CGWB.
- (iii) Construction shall conform to the requirements of local seismic regulations. The project proponent shall obtain permission for the plans and designs including structural design, standard and specifications of all construction work from concerned authority.
- (iv) Use of energy efficient construction materials to achieve the desired thermal comfort shall be incorporated. The desired level of roof assembling "U" factor and insulation "R" value must be achieved. Roof assembling "U" factor for the top roof shall not exceed 0.4 Watt/sq. m./degree centigrade with appropriate modifications of specifications and building technologies. The provisions of National Building Code 2005 shall be strictly followed.
- (v) Street/corridor lighting shall be energy efficient. The High Pressure Sodium Vapour (HPSV) Lamps & Compact Fluorescent Lamps (CFL) along Building premises shall be provided. High intensity, high mast-lights to be installed at few strategic points. Solar energy may be used for outdoor lighting.
- (vi) Reduce hard paving-onsite (open area surrounding buildings) and/or provide shade on hard paved surfaces to minimize heat island effect and imperviousness of the site.
- (vii) All proposed air-conditioned buildings should follow the norms proposed in the ECBC regulations framed by the Bureau of Energy Efficiency.
- (viii) Monitoring of AAQ as per NAAQS 2009, Monitoring of Ambient Noise Level & Analysis of Ground Water Samples, Monitoring of Stack Emissions from DG Sets should be conducted and report should be submitted on monthly basis to SPCB, Bihar.

II. Construction Phase

- (i) All the conditions laid down in NOC issued by SPCB should be strictly complied with during entire construction cycle of the project.

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- (ii) The water treatment plant shall be provided for treatment of water. The treatment shall include screening, sedimentation, filtration and disinfections. Appropriate arrangement shall be made for treatment and reuse of backwash water of filtration plant.
- (iii) Project proponent shall provide adequate measuring arrangement at the inlet point of water uptake and at the discharge point for the measurement of water utilized in different categories to monitor the daily water consumption.
- (iv) Regular water sprinkling shall be done all around the site to minimize fugitive dust emission during construction activities.
- (v) Rain water harvesting structures should be provided as per submitted Plan.

III. Post Construction / Operation Phase

- (i) Project Proponent should obtain prior Consent to Operate under Air Act'1981 & Water Act' 1974 from State Pollution Control Board before commissioning of the project.
- (ii) Project Proponent should obtain Bio Medical Waste Authorization from PCB as per guidelines of Bio Medical Waste (Management & Handling) Rules 1998 for generation, storing, transporting, disposing, treating or handling of bio medical waste generated from project during operation stage.
- (iii) Water saving practices such as usage of water saving devices/ fixtures, low flow flushing systems, sensor based fixtures, auto control walls, pressure reducing devices etc. should be adopted.
- (iv) Water budget should be adopted as per the plan submitted in the supplementary Form 1A & EMP.
- (v) All the generated domestic effluent should be sent to ETP/STP for treatment & further recycling & reuse.
- (vi) Treated water recovered from STP would be used for flushing the toilets, gardening purpose, make up water in air conditioning systems etc. As proposed, Fluidized Bed Reactor (FBR) type sewage treatment plant should be installed. The Sewage Treatment Plant shall be ensured before the completion of Building Complex.
- (vii) Rainwater from open spaces shall be collected and reuse for landscaping and other purposes. Rooftop rainwater harvesting shall be adopted for the proposed Buildings. Every building of proposed extension project shall

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- have rainwater-harvesting facilities. The storm water flowing in roadside drains shall also be recycled and reused to maintain the vegetation and discharged into ground water recharging wells. Before recharging the surface runoff, pre treatment must be done to remove suspended matter and oil and grease.
- (viii) Municipal solid wastes generated in the proposed extension buildings shall be managed and handled in accordance with the compliance criteria and procedure laid down in Schedule – II of the Municipal Wastes (Management and handling) Rules, 2000 (As amended).
- (ix) The standard for composting & treated leachates as mentioned in Schedule – IV of the Municipal Wastes (Management and handling) Rules, 2000 (As amended) shall be followed.
- (x) All hazardous wastes shall be segregated, collected, transported, treated and disposed as per provisions of the Hazardous Wastes (Management and Handling) Rules, 1989 (As amended).
- (xi) Recycling of all recyclable wastes such as; newspaper, aluminium cans, glass bottles, iron scrap and plastics etc. shall be encouraged through private participation. Project proponent shall take appropriate action to ensure minimum utilization of plastic carry bags and plastic small containers etc. within the proposed buildings shall be ensured.
- (xii) Project proponent shall operate and maintain the sewage collection/conveyance system, sewage pumping system and sewage treatment system regularly to ensure the treated water quality within the standards prescribed by Ministry of Environment and Forests, Government of India.
- (xiii) Properly treated and disinfected (Ultra Violet) sewage shall be utilized in flushing the toilets, gardening purpose, make up water in air conditioning systems etc.
- (xiv) Non-mixing of fecal matter with the municipal solid wastes shall be strictly ensured.
- (xv) Non-mixing of sewage/sludge with rainwater shall be strictly ensured.
- (xvi) Noise barriers shall be provided at appropriate locations so as to ensure that the noise levels do not exceed the prescribed standards. D.G. sets shall be provided with necessary acoustic enclosures as per Central Pollution Control Board norms.
- (xvii) Back up supply shall be based on natural Gas/cleaner fuel subject to their availability.

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- (xviii) The project proponent shall resort to solar energy at least for street lighting and water heating for Proposed Building Complex, gardens/park areas.
- (xix) During maintenance, energy efficient electric light fittings & lamps – low power ballasts, low consumption high power luminaries, lux level limiters & timers for street lighting shall be provided.
- (xx) A report on the energy conservation measures conforming to energy conservation norms finalized by Bureau of Energy Efficiency should be prepared incorporating details about building materials & technology, "R" and "U" factors etc.

IV. Entire Life of the Project

- (i) All the conditions laid down in NOC, Consent to Operate & Bio Medical Waste Authorization granted by SPCB should be strictly complied with during entire life cycle of the project.
- (ii) Monitoring of Ambient Noise Level & Analysis of Ground Water Samples, Monitoring of Stack Emissions from DG Sets & Incinerators & Testing of Untreated & Treated effluent samples of ETP/STP should be conducted and report should be submitted on monthly basis to SPCB.
- (iii) The project authorities shall ensure that the treated effluent and stack emissions from the unit are within the norms stipulated under the EPA rules or SPCB whichever is more stringent. In case of process disturbances/failure of pollution control equipment adopted by the unit, the respective unit shall be shut down and shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- (iv) The overall noise levels in and around the project area shall be kept well within the standards 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 (day time) and 70 dBA (night time).
- (v) The project authorities shall provide requisite funds for both recurring and non-recurring expenditure to implement the conditions stipulated by SEIAA, Bihar with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.
- (vi) A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban local

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- Body and the local NGO, if any, from who 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.
- (xxi) The funds earmarked for the environmental protection measures shall not be diverted for other purposes.
- (xxii) In case of any change(s) in the scope of the project, the project shall require a fresh appraisal by the SEAC/SEIAA.
- (xxiii) The SEAC/SEIAA Bihar will have the right to amend the above conditions and 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.
- (xxiv) Any appeal against this Environmental Clearance shall lie with the National Green Tribunal (NGT), if preferred within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.

Sd/-

(R.C. Sinha)
Chairman
SEIAA, Bihar

Memo No. :-

Patna --, .2015

Copy forwarded to :

1. The Principal Secretary, Environment & Forests Department, Govt. of Bihar, Sicha Bhawan, Patna
2. The Chairman, Bihar State Pollution Control Board, Beltron Bhawan, IInd Floor, LBS Nagar, Jawahar Lal Nehru Marg, Shastrinagar, Patna- 800023
3. Chairman, SEAC, Bihar/
4. Chairman, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi-23
5. Chief Conservator of Forest, Ministry of Environment & Forests, Regional Office (EZ), A/3, Chandrasekharapur, P.O. Rail Vihar, Bhubaneswar – 751023

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6. Advisor (EIA), Paryavaran Bhawan, Ministry of Environment & Forests, CGO Complex, Lodhi Road, New Delhi- 110003
7. Guard File

R.C. Sinha
 (R.C. Sinha) 14/4/15
 Chairman
 SEIAA, Bihar

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With reference to your letter No. ST/EA/10013 dated 12.12.2013 for environment clearance as per EIA notification 2006 of proposed erection of College Hostel & Residential Quarters with existing premises of ICIMS at Patna. The proposal has been examined by SEAC and submitted in accordance with the EIA notification, 2006 and its amendment. It is noted that the user category of the project for which Environmental Clearance is required is as follows:

Name of the Project	Medical College Hostel & Residential Quarters
Project Proponent	Indo Gandhi Institute of Medical Sciences
Type of the Project	Building and Construction Project
Category of the Project	B (ii) - C
Project Location	GOHL, 10th cross, existing premises of ICIMS, Zakhupura, Patna
Total no. of trees to be felled	Nil