



File No: SEAC/SEIAA.4259/2025

Government of India

Ministry of Environment, Forest and Climate Change

(Issued by the State Environment Impact Assessment Authority(SEIAA),
ASSAM)



Date 27/02/2026



To,

ANUP KUMAR BARMAN

Director, Directorate of Medical Education, Jaya Nagar, Khanapara, Guwahati, Assam., KAMRUP
METRO, 781022
gmchghy25@gmail.com

Subject: Grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA
Notification 2006 -regarding.

Sir/Madam,

This is in reference to your application submitted to SEAC & SEIAA vide proposal number
SIA/AS/INFRA2/569375/2026 dated 20/02/2026 for grant of prior Environmental Clearance (EC) to
the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC26B3813AS5867850N
(ii) File No.	SEAC/SEIAA.4259/2025
(iii) Clearance Type	Fresh EC
(iv) Category	B1
(v) Project/Activity Included Schedule No.	8(b) Townships/ Area Development Projects / Rehabilitation Centres
(vii) Name of Project	Expansion, Modernization and Re-Development of Guwahati Medical College & Hospital
(viii) Name of Company/Organization	ANUP KUMAR BARMAN
(ix) Location of Project (District, State)	KAMRUP METRO, ASSAM
(x) Issuing Authority	SEIAA
(xi) Applicability of General Conditions as per EIA Notification, 2006	No

In view of the particulars given in the Para 1 above, the project proposal interalia including Form-1(Part A and B) were
submitted to the State Expert Appraisal Committee (SEAC), Assam under the provision of EIA notification 2006 and its
subsequent amendments.

The above-mentioned proposal has been considered by State Expert Appraisal Committee (SEAC) in the meeting held on

23/02/2026. The minutes of the meeting and all the Application and documents submitted (viz. Form-1 Part A and Part B) are available on PARIVESH portal which can be accessed by scanning the QR Code above.

The brief about configuration of plant/equipment, products and by products and salient features of the project along with environment settings, as submitted by the Project proponent in Form-1 (Part A and B).

The SEIAA, in its meeting held on 27/02/2026, based on information & clarifications provided by the project proponent and after detailed deliberations recommended the proposal for grant of EC under the provision of EIA Notification, 2006 and as amended thereof subject to stipulation of specific and general conditions.

The SEAC has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after recommendations of the State Environment Impact Assessment Authority (SEIAA) hereby decided to grant EC for instant proposal of **Anup Kumar Barman** under the provisions of EIA Notification, 2006 and as amended thereof.

The SEIAA reserves the right to stipulate additional conditions, if found necessary.

The EC to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.

General Instructions:

- a) The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.
- b) The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- c) The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions.
- d) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during perational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.
- e) Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- f) The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- g) Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

This issue with the approval of the Competent Authority.

EC is approved for proposed project is for 'Expansion, Modernization and Re-Development of Guwahati Medical College & Hospital' located within Guwahati Medical College Hospital Campus and aims at redevelopment and modernization of Guwahati Medical College & Hospital through providing aspects for better patient care facilities like Organized & compact planning, consolidation of departments like OPD, ample waiting areas at every floor with facilities like kiosk or vending machines, betterment in the patient care, large open green courtyards/ terraces/ podium relaxation for inhabitants and adequate parking provided in basement & Multi Level Car Parking block for doctors, staff and patients.

The Project Management Unit for the project is The Directorate of Medical Education, Assam, Health & Family Welfare Department, Government of Assam. Name of applicant is Dr. Anup Kumar Barman (Director), Directorate of Medical Education, Jaya Nagar, Khanapara, Guwahati, Assam.

The plot area of the proposed project is 1, 07,811 m² and proposed built up area is 3,09,083.85 m².

Total estimated cost of the project is Rs 3300 Crore. PP has submitted Land documents, Geotechnical Investigation Report, Demolition Plan, Bed Shifting Plan and Architectural drawings.

The project attracts demolition of existing building in a sequence and construction of new building. Submitted Demolition plan is duly approved by the PWD. The project involves Demolition of old car, bike parking, emergency building, pharmacy, building (G+2), temporary parking, building 1 (G+3), building 2 (G+4), Gynaecology block (G+3), old emergency building, mental department (G+3), kitchen, nursing, post mortem, laundry, garage transfer and other buildings. Further, three phase –Bed Shifting Plan as duly approved by the Principal cum Chief Superintendent, GMCH is also submitted.

The new construction is proposed of Basement + Ground + 8 floor in a planned manner with the following facilities: -

1. Total number of beds: 3000, General Ward: 2250, ICU Ward: 250, Private Ward: 400, Emergency: 100
2. Total number of operation theatre: 22 no. of major OT and 6 no. of minor OT
3. Radiology (MRI – 2 nos., CT- 3 nos., Ultrasound – 6 nos., DSA – 1 no., Mammography, etc.
4. Car Parking in basement and a new Multi Level Car Parking space.
5. Podium for visitors, patients seating area with green landscape at 2nd floor level.
6. Ancillary services (Kitchen, Laundry, Workshop, Mortuary and Central Stores).

The total water demand will be 2372 KLD, the fresh water demand is 1691 KLD and flushing water demand is 681 KLD. The Capacity of onsite STP is 2450 KLD and ETP is 250 KLD.

All the other terms and conditions mentioned by SEAC shall remain unchanged.

Copy To

1. The Joint Secretary, Ministry of Environment, Forest and Climate Change, Government of India, MOEF&CC, Indira Paryavaran Bhawan, Jorbagh Rd, New Delhi-110003.
2. The Secretary to the Govt. of Assam, Environment & Forest Department, Dispur, Guwahati-6 Cum Member Secretary, SEIAA, Assam for favour of kind information.
3. The Chairman, SEAC, Assam for favour of kind information.
4. The Commissioner, Guwahati Municipal Corporation, Guwahati-6 for favour of kind information.
5. The Principal cum Chief Superintendent, Gauhati Medical College & Hospital, Guwahati-32 for favour of kind information.
6. The Executive Engineer, PWD (Building) Assam, Chandmari, Guwahati-3 for favour of kind information.
7. The Member Secretary, APCB, Assam for favour of kind information.
8. The Integrated Regional Office, Ministry of Environment, Forest & Climate Change, 4th Floor, Housefed Building, G.S. Road, Rukminigaon, Guwahati-22 for kind information.
9. Office Copy.

Annexure 1

Specific EC Conditions for (Townships/ Area Development Projects / Rehabilitation Centres)

1. Specific Conditions By Seac

S. No	EC Conditions
1.1	1. Intelligent car parking facility module to be incorporated in the operational phase and all possibility of involving a private player to manage the parking in the entire hospital is highly recommended. The management must prepare for additional car parking spaces within or outside the premises. 2. A separate location shall be earmarked for the purpose of establishment of a dedicated firefighting services within the college premises with all-time presence of firefighting men power along with needful equipment's and logistic support. 3. The garbage storage location within the hospital premises was not appreciated by the SEAC and it was felt expedient to get the matter resolved in consultation with the Gauhati Municipal Corporation for shifting/relocation of the same to a different place. 4. It shall be mandatory to establish an "Environmental Monitoring Cell" from the very start of demolition to the advantage of minimal impact. 5. For raising of Green Belt around the plot area the PP shall consider and take in to account the species of plants being endemic with evergreen in nature, being of aesthetic value, medicinal value comprising of trees, shrubs, liana with proper labeling for appreciation of the importance of these plants by inmates, occupants, visitors etc. The PP shall undertake plantation of sufficient numbers of plants of suitable species comprising of herbs, shrubs and trees. 6. The plant species as may be preferred are Jasmine (<i>Cestrum nocturnum</i>), Kamini Kusum (<i>Murraya paniculata</i>), Ashok (<i>Saraca asoca</i>), Bakul (<i>Mimosops elengi</i>), Nahor (<i>Mesua ferrea</i>), Titasopa (<i>Michelia champaca</i>), Sewali (<i>Nyctanthes arbor tris tis</i>), Bael (<i>Aegle marmelos</i>), Agar (<i>Aquillaria malaccensis</i>), Thuja (<i>Thuja compacta</i>), Putranjiba (<i>Putranjiva roxburghii</i>), Debadaru (<i>Polyalthia pendula</i>), Cycas (<i>Cycas pectinata</i>), Rakta Chandan (<i>Pterocarpus santalinus</i>), Chandan (<i>Santalum album</i>) etc etc. The guidance of the Chairman SEAC in raising of plantation within premises, if so advised, may be sought as discussed in the meeting. 7. The PP shall promote CER activity within the Guwahati City by undertaking health checkups for minors and elderly persons, preferably women folk twice in a year through due consultation with a reputed Organization (Guwahati based) especially dedicated for welfare of marginal families/underprivileged families and also assist in undertaking educational facilities for downtrodden children / underprivileged children. North East Educational Trust, a public charitable trust may be involved for the said purpose with yearly expenditure of Five Lakh. 8. All the above conditions shall form part of the CER activities and shall be complied with in a time bound manner and Half Yearly Compliance Reports (HCR) are mandatory on the part of project Proponent which need to be uploaded on or before 1st June and 1st December of the calendar year in PARIVESH 2.0 portal. 9. The Proponent shall comply with the conditions of Indian Green Building Council (IGBC) or <i>GRIHA</i> (Green Rating for Integrated Habitat Assessment) / LEEDS (Leadership in Energy and Environmental Development Systems). 10. Further, the STP is to be managed by the project Proponent. The PP shall have the necessary AMC with the STP provider for operation and their maintenance shall be ensured by the PCB, Assam. 11. Certificate from the Central Ground Water Authority for use of water in the Operational phase needs to be obtained by the Proponent. 12. The cost earmarked for the environmental safeguards contained in the Environment Management Plan (EMP), as approved against the Environment Management Plan, amounting to Rs. 30.00 Crore as Capital Cost and Rs. 09.00 Crore as Recurring cost against each of the components shall have to be utilized and shall not be diverted for any other purposes and year wise expenditures both in constructional and operational phases shall be reported to the APCB, the SEIAA and the Regional Office, MoEF & CC, GoI, Guwahati along with the break up of expenditures for record and monitoring. 13. The PP shall obtain Consent to Operate (CTO) from Assam Pollution Control Board under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981, as applicable before starting of the construction activities

S. No	EC Conditions
	and during the construction activities respectively. 14. The PP shall shall duly undertake steps to transfer the EC in terms of Rule 11 of Environment Protection Regulation, 2006 with all connected papers to the rightful custodian ensuring monitoring and expansion, maintenance of the project, safety of all pertaining records as done by a Estate officer (eg Medical Estate Officer for the State of Assam). 15. It shall be bounden on the project Proponent to upload the Half Yearly Compliance Report (HCR) in terms of the guidelines circulated under OM No. IA3-22/1/2022-IA.III Dated 14.06.2024 by the Ministry in the MoEF & CC, GoI. Observation & Comments by APCB: Observation: a. The Proposed site i.e. the existing GMCH hospital campus was visited. b. As stated by the representatives of the Hospital authority and personnel present at the site, the existing building has been proposed to be demolished (details of demolition stated at Sl. 9.4 of the application) c. Details of the hospital building blocks and corresponding built-up area of the components have been stated in the Table-1 of conceptual plan for the proposed project as submitted with the proposal. d. As stated a concrete batching plant has been proposed to set up in the site during construction. Comments: i) Waste materials including Construction and demolition Wastes, Metal scraps, Hazardous and other wastes etc. shall be disposed of in accordance with applicable waste management rules through authorized agencies only. ii) Adequate dust suppression measures including water sprinkling, erection of barriers, green netting etc. shall be incorporated during dismantling work and subsequent construction activities. iii) Area earmarked for green belt development including tree plantation plan shall be developed accordingly. iv) No Objection Certificate from the Local Body including building permission from the competent authority shall be submitted. v) As mentioned above, the unit may perhaps be directed to apply for necessary consent for the batching plant. vi) Any orders passed by Hon'ble Courts, Tribunals etc. shall be complied with, if applicable. vii) Detailed specification of Sewage Treatment Plant and Effluent Treatment Plant as mentioned in the conceptual plan submitted by the applicant shall be submitted. viii) The proponent may be directed to obtain all statutory clearances/licenses/permissions etc, as applicable. ix) Terms and conditions may perhaps be stipulated as applicable for building construction projects (Townships/ Area Development Projects / Rehabilitation Centres) and Health Care Facilities, as deemed appropriate. x) Considering the scale of the project and demolition activities proposed, the unit shall mandatorily undertake noise control measures to ensure adherence to prescribed Ambient Air Quality Standards in respect of Noise, as per the Noise Pollution (Regulation and Control) Rules, 2000, as amended. xi) Further, the unit shall ensure adherence to the Environment (Protection) Amendment Rules, 2018, vide G.S.R. 94(E) dated 25th January, 2018(copy enclosed). In addition, general conditions as stated herein below may perhaps be stipulated:

S. No	EC Conditions
	(A) General Conditions: a) The unit shall obtain prior “Consent to Establish” from the Board for any further expansion, alteration, modification, modernization of the project. b) Proper housekeeping shall be maintained. No waste shall be burnt inside the premises. c) The project proponent shall develop a greenbelt/plantation area with native trees only atleast 33% of the total plot area to develop Green Belt and Carbon Sink. d) The unit shall obtain “Consent to Operate (CTO)’ from the Board prior to commissioning of the unit. e) Personnel working in dusty areas shall be provided with protective respiratory devices and they shall also be imparted adequate training and information on safety and health aspects. All measures shall be undertaken to ensure safety of the workers and personnel. f) The project authority should implement the CSR & EMP Plan properly. g) All necessary measures shall be incorporated for environmental protection during construction phase and thereafter. (B) Air Aspect: a) The unit shall comply with the ambient noise level standard, notified by the MoEF& CC, GOI vide SO 123 (E), dated 14.02.2000. b) Air Pollution Control Devices shall be installed in the proposed DG sets and the height of the stack(s) of DG sets shall be in accordance with the prescribed standards. c) The Ambient Air Quality, within the unit and surrounding areas shall be maintained within the National Ambient Air Quality Standards, as notified by MoEF& CC, vide G.S.R.826 (E) dtd.16.11.2009, especially with respect to PM₁₀, PM_{2.5}, SO₂, NO₂. d) The project proponent shall install and operate 'Mist Canon' at the construction site for suppression of dust generated from material handling, construction activities and plying of vehicles. e) The following pollution control measures shall be implemented by the authority. f) The unit shall adhere to the “Guidelines on Dust mitigation measures in handling construction material and C&D wastes” prepared by CPCB. (C) Water Aspects: a) The Health care facility shall disinfect the trade effluent with 1% Sodium Hypo-Chloride solution before taking it into Effluent Treatment Plant (ETP). b) The unit shall install Sewage Treatment Plant (STP)/Effluent Treatment Plant of adequate capacity and in accordance with the prescribed guidelines, before commissioning. c) The unit shall install Effluent Treatment Plant (ETP) for treatment of effluent generated. For discharge of treated effluent, the unit shall comply with the specific standards prescribed vide Rule 8 of the Biomedical Waste Management Rules, 2016. d) For discharge of treated the unit shall comply with the specific effluent discharge standard for STP, notified by the MoEF & CC, Govt. of India vide GSR 1265 (E) dated 13.10.2017. e) For discharge of surface water runoff, the unit shall comply with the general discharge standards notified by the MoEF & CC, Govt. of India vide GSR 422 (E) dated 19.05.1993. f) Storm waster shall not be allowed to mix with floor washing. g) Storm water within the battery limits shall be channelized through separate drain/pipe passing through an Oil and Grease Trap. h) Rain water harvesting facility shall be installed and maintained. (D) Solid Waste Aspect: a. Adequate facility shall be created for collection, segregation, storage, transportation, treatment and disposal of solid waste generated from the unit. b. Adequate system shall be adopted on reduction of waste generation and enhancement of re-utilization and recycling of waste materials. c) Solid waste generated in the unit shall be disposed of as per the provisions specifically Rule 4(7) of the Solid Waste Management Rules, 2016. d) The unit shall ensure segregation of waste at source as prescribed in Solid Waste

S. No	EC Conditions
	Management Rules, 2016, facilitate collection of segregated waste in separate streams, handover recyclable material to either the authorized waste pickers or the authorized recyclers. e) The bio-degradable waste shall be processed, treated and disposed off through composting or bio-methanation within the premises. (E) E-Waste Aspects: a) The unit shall comply with the provisions of E-Waste Management Rules, 2022. (F) Hazardous Waste Aspects: a) Authorization under Hazardous and Other Wastes (Management & Trans-boundary Movement) Rules, 2016 shall be obtained from the Board. b) The project authorities shall comply with the provisions of the said Rules. c) Adequate facility shall be provided for collection and storage of used/spent oil, which shall be sent to registered recyclers for recycling. d) The unit shall dispose of any other Hazardous Waste generated by the unit as per the provisions of the Rules. e) The unit shall identify and quantify all streams of Hazardous Waste generation as per Schedule-I and maintain proper record in Form-III of the said Rules. (G) Bio-medical Waste Management: a) The unit shall properly manage the Bio-medical Waste generated from the unit as per the Biomedical Waste Management Rules, 2016, as amended. b) The unit shall ensure that bio-medical waste is not mixed with the general solid waste. c) The unit shall obtain Authorization from the Board under the said Rules.

Standard EC Conditions for (Townships/ Area Development Projects / Rehabilitation Centres)

1. Statutory Compliance

S. No	EC Conditions
1.1	The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
1.2	The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc. as per National Building Code including protection measures from lightening etc.
1.3	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1980, in case of the diversion of forest land for non-forest purpose involved in the project.
1.4	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
1.5	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
1.6	The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.
1.7	A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.

S. No	EC Conditions
1.8	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
1.9	The provisions of the Solid Waste Management Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste Management Rules, 2016, shall be followed.
1.10	The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.

2. Air Quality Monitoring And Preservation

S. No	EC Conditions
2.1	Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
2.2	A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
2.3	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5) covering upwind and downwind directions during the construction period.
2.4	Diesel power generating sets proposed as source of backup power 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 State Pollution Control Board.
2.5	Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3-meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
2.6	Sand, murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
2.7	Wet jet shall be provided for grinding and stone cutting.
2.8	Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
2.9	All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Management Rules 2016.

S. No	EC Conditions
2.10	The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.
2.11	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
2.12	For indoor air quality the ventilation provisions as per National Building Code of India.

3. Water Quality Monitoring And Preservation

S. No	EC Conditions
3.1	The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.
3.2	Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
3.3	Total fresh water use shall not exceed the proposed requirement as provided in the project details.
3.4	The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
3.5	A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
3.6	At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
3.7	Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
3.8	Use of water saving devices/fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
3.9	Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.

S. No	EC Conditions
3.10	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
3.11	The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
3.12	A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.
3.13	All recharge should be limited to shallow aquifer.
3.14	No ground water shall be used during construction phase of the project.
3.15	Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.
3.16	The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
3.17	Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, no treated water shall be disposed in to municipal drain.
3.18	No sewage or untreated effluent water would be discharged through storm water drains.
3.19	Onsite sewage treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.
3.20	Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
3.21	Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

4. Noise Monitoring And Prevention

S. No	EC Conditions
4.1	Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.
4.2	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
4.3	Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

5. Energy Conservation Measures

S. No	EC Conditions
5.1	Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
5.2	Outdoor and common area lighting shall be LED.
5.3	Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
5.4	Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.
5.5	Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.
5.6	Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

6. Waste Management

S. No	EC Conditions
6.1	A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.

S. No	EC Conditions
6.2	Disposal of muck during construction phase shall 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.
6.3	Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
6.4	Organic waste compost/Vermiculture pit/Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.
6.5	All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
6.6	Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
6.7	Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.
6.8	Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction.
6.9	Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.
6.10	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.

7. Green Cover

S. No	EC Conditions
7.1	No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).
7.2	A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.
7.3	Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.

S. No	EC Conditions
7.4	Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.

8. Transport

S. No	EC Conditions
8.1	A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria. a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic. b. Traffic calming measures. c. Proper design of entry and exit points. d. Parking norms as per local regulation.
8.2	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 be operated only during non-peak hours.

9.

S. No	EC Conditions
9.1	A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

10. Human Health Issues

S. No	EC Conditions
10.1	All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
10.2	For indoor air quality the ventilation provisions as per National Building Code of India.
10.3	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
10.4	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

S. No	EC Conditions
	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.
10.5	Occupational health surveillance of the workers shall be done on a regular basis.
10.6	A First Aid Room shall be provided in the project both during construction and operations of the project.

11. Miscellaneous

S. No	EC Conditions
11.1	The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.
11.2	ii. environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
11.3	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
11.4	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
11.5	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
11.6	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
11.7	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report
11.8	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection)

S. No	EC Conditions
	Rules, 1986, as amended subsequently and put on the website of the company.
11.9	The project proponent 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, commencing the land development work and start of production operation by the project.
11.10	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
11.11	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during their presentation to the Expert Appraisal Committee.
11.12	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change (MoEF&CC).
11.13	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
11.14	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
11.15	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
11.16	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
11.17	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 and Other Wastes (Management and Transboundary Movement) Rules, 2016, and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
11.18	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.