



सत्यमेव जयते

**File No.: 21-06/2024-IA.III**  
**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**IA Division**

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Dated 07/05/2024



To,

Guruprakash Sastry  
M/S INFOSYS LIMITED  
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**Subject:** Amendment in EC of IT Park at MIDC, Rajiv Gandhi, Infotech Park-II, Hinjewadi, Pune, Maharashtra by M/s Infosys Ltd.

**Sir/Madam,**

This is in reference to your application submitted to MoEF&CC vide proposal number IA/MH/INFRA2/458590/2024 dated 12/01/2024 for grant of an amendment in prior Environmental Clearance (EC) to the 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.	EC24B3813MH5203030A
(ii) File No.	21-06/2024-IA.III
(iii) Clearance Type	Amendment in EC
(iv) Category	B1
(v) Schedule No./ Project Activity	8(b) Townships/ Area Development Projects / Rehabilitation Centres
(vi) Sector	INFRA-2
(vii) Name of Project	Amendment in EC of IT Park at MIDC, Rajiv Gandhi, Infotech Park-II, Hinjewadi, Pune, Maharashtra by M/s Infosys Ltd.
(viii) Location of Project (District, State)	PUNE, MAHARASHTRA
(ix) Issuing Authority	MoEF&CC
(x) EC Date	23/04/2024
(xi) Applicability of General Conditions	NO
(xiii) Status of implementation of the project	

3. The project/activity is covered under item 8(b) 'Townships and Area Development Projects' of the Schedule to the EIA Notification, 2006 as amended and requires appraisal at the State level. However, due to the temporary absence of

SEIAA/SEAC in Maharashtra, the proposal has been appraised at the Central level by sectoral EAC as per the provisions of the OM No. IA3-22/10/2022-IA.III [E 177258] dated 02.08.2023.

4. Accordingly, the above-mentioned proposal for Environmental Clearance has been examined by the Expert Appraisal Committee (Infra-2) in its 117<sup>th</sup> meeting held on 24-25.01.2024.

5. The details of the project, as per the application form, documents submitted by the project proponent, and also as informed during the aforesaid meeting of EAC, are provided below for reference:

- The project is the Amendment in Environmental Clearance.
- The project is located at plot no 24 in Hinjewadi, Rajiv Gandhi Infotech Park, Hinjewadi, Pune, Maharashtra Latitude of the project is 18°35'50.74"N & Longitude of the 73°42'34.12"E.
- Environmental Clearance was granted to the project vide File. no. 21-157/2017-IA-III dated 27.08.2018 for a plot area of 4,63,380.0 m<sup>2</sup> & built-up area of 8,67,692.0 m<sup>2</sup> to M/s Infosys Ltd.
- The total plot area of the project will be 4,63,380.0 sq. m, FSI area after Amendment will be 4,29,427.0 sq. m and total Built-up area after Amendment will be 7,86,407.0 sq. m. The project will comprise of 12 Software Development blocks, 2 Office Buildings of Infosys Business Process Outsourcing (IBPO), 4 Food Courts and parking facility in Multi Level Parking (MLPL). Maximum height of the building is 65.0 m. The details of building are as follows:

Particulars	Details As per EC dated 27.08.2018	Proposed	Amendment	Remarks
Plot Area	4,63,380.0 sq. m	-	46,3,380.0 sq. m	No Change
Ground Coverage (Achieved)	1,31,244.0 sq. m	1,477.0 sq. m	1,32,721.0 sq. m	Increase
Permissible FSI	6,64,220.0 sq. m	-	6,64,220.0 sq. m	No Change
Proposed FSI (A)	4,15,527.0 sq. m	13,900 sq. m	4,29,427.0 sq. m	Increase
Services Area (B)	1,83,708.0 sq. m	2167 sq. m	1,85,875.0 sq. m	Increase
Parking Area (C)	2,68,457.0 sq. m	Reduced by 97352	1,71,105.0 sq. m	Decrease
<b>Built-up Area (A+B+C)</b>	<b>8,67,692.0 sq. m</b>	Reduced by <b>81,285</b> sq. m	<b>7,86,407.0 sq. m</b>	<b>Decrease</b>
Total Open & Road Area	1,31,801.0 sq. m	Reduced by 1477 sq. m	1,30,324.0 sq. m	Decrease
Green Area	2,00,335.0 sq. m	-	2,00,335.0 sq. m	No Change
Blocks	12 No of SDB +2 IBPO	-	12 No of SDB +2 IBPO	No Change
Floors	G + 18	-	G + 18	No Change
Max. height of building (upto terrace level)	65.0 m	-	65.0 m	No Change
Power load	15.35	-	15.35	No Change
Power Backup (DG sets)	24	Reduced by 2	22	Decrease
Parking provision	16729	Reduced by 8422 KLD	8307 KLD	Decrease
Total Water requirement	2840 KLD	Reduced by 130 KLD	2710 KLD	Decrease
Freshwater requirement	1212 KLD	Reduced by 15 KLD	1197 KLD	Decrease
Treated water reuse	1628 KLD	Reduced by 115 KLD	1513 KLD	Decrease
Wastewater generation	2260 KLD	Reduced by 578 KLD	1682 KLD	Decrease
STP capacity	3000 KLD	-	3000 KLD	No Change
Solid Waste	5621	Reduced by 853	4768	Decrease
Rain Water Injection Wells	68	-	68	No Change

v. During Construction Phase: Total water requirement is expected to be 23 KLD, out of which 18 KLD will be used by 400 no. of labourers for domestic & flushing purposes will be made through municipal tanker supply and 5 KLD of water will be used for construction activities will be sourced through STP treated water through tanker supply. 14 KLD of waste water will be generated that will be treated in mobile STP.

vi. During Operational Phase: Total water requirement after amendment will be 2710 KLD out of which fresh water requirement will be 1197 KLD. The wastewater generation will be 1682 KLD to be treated in the existing STP of 3000 KLD (2 modules of 1000 KLD & 2000 KLD of MBR Technology). Treated water of 1513 KLD will be generated which will be reused for flushing, gardening, and cooling & HVAC purposes.

vii. Total 4768 kg/day (1740 TPA) of domestic solid waste will be generated from the project. Out of which, bio-

degradable waste of 1907 kg/day (696 TPA) will be treated in Biogas plant already installed (2000 Kg capacity) within the premises. 2861 kg/day (1044 TPA) of non-biodegradable waste will be given to SWACH Plus Seva Sahakari Sanstha Maryadit. 2 No of Organic Waste Converter is proposed at the project site of 500 kg/day capacity for the backup purposes in future.

viii. The total power requirement during the construction phase will be met from the temporary DG set of capacity 2x 125 KVA . Total power requirement of operation phase of project after amendment remains the same as in EC granted i.e. 15.35 MVA which will be met by Maharashtra State Electricity Distribution Company Ltd.

ix. Rooftop rainwater of buildings is being collected in 4 no of Rain water collection tanks of total 852 Cum capacity and the same is being reused within the premises after giving primary treatment in the monsoon season. There will be a total 68 injection wells, out of which 42 injection wells are constructed to recharge the groundwater

x. 2 No of natural rainwater ponds/reservoirs are also there for collection of extra surface runoff from the premises.

xi. Parking facility for 8307 ECS (6153 four-wheelers and 6153 two-wheelers {equivalent to 1538 ECS}). 10% visitor parking will also be provided (i.e., 615 ECS) against the requirement of 8307 ECS (according to MIDC norms).

xii. Solar Panels of 1.35 MW i.e. 11.7 % of current connected demand load i.e. 11.5 MW has provided .70% green power is being used in the premises.

xiii. No, the project does not fall in a critically polluted area.

xiv. The proposed project is located within 10 km of the Eco Sensitive Zone

xv. NBWL Clearance is not required.

xvi. No forest clearance required

xvii. No court case is pending against the project.

xviii. Total area under plantation/greenery will be 2,00,335.0 m<sup>2</sup> i.e. 43.23 % of plot area

xix. The total estimated cost of the project will be Rs. 972 .44 Crores

xx. Employment potential: Approx. 400 labourers will be hired during the construction phase and during the operation phase about 36380 employment opportunities will be generated.

(xxvi) Benefits of the project:

● Social benefit:

1. The project will provide good quality, eco friendly, safe and secured stay
2. Generation of employment to approximately 400 no. of labour during the construction & approx. 36380 no. in operation phase.

● Environment benefits:

1. Energy efficient measures to reduce the requirement during the operation stage will be maintained which ultimately leads to lesser demands and reducing carbon footprints of the project making it eco-friendlier.

2. A well-designed waste management approach such as the different collection unit for wet & dry waste respectively and eco-friendly treatment approach i.e. Biogas Plant & organic waste converter.

6. The EAC has noted that PP has obtained EC from the Ministry vide letter number 21-157/2017-IA.III dated 27.08.2018 for IT Park at MIDC, Rajiv Gandhi, Info Tech Park-II, Hinjewadi, and total built-up area of 8,67,692.0 sq. m. Now, due to certain changes proposed in the internal configuration of FSI and Non-FSI of the buildings that are yet to be constructed, however, the total Plot Area will remain unchanged and the total built-up area will decrease from 8,67,692.0 sq. m to 7,86,407.0 sq. m.

7. The committee has noted that the project proponent has designated about 2,00,335 sq. m for the development of greenery within the premises and about 13,392 trees and 10,236 shrub species are already planted within the above-mentioned area. Further, about 271 trees are to be transplanted due to the above development. The EAC has further noted that the EMP cost of projects is meagre, so it should be increased and rationalised as per area and cost of the project.

8. Further, EAC has directed that the proponent shall be responsible for undertaking the operation and maintenance of common facilities like STP, OWC, Green belt development, Solar, Rainwater Harvesting, and other such amenities provided within the project site for a period of 5 years after handed over to the *bona fide* Residential Welfare Association or any other such association and also for completing the formalities related to the transfer of environmental clearance to the *bona fide* Residential Welfare Association and when required. The project proponent has also submitted an undertaking in this regard.

9. The EAC, based on the information submitted and clarifications provided by the project proponent and detailed discussions held on all the issues, recommended granting environmental clearance to the project subject to the specific conditions and other Standard EC Conditions as specified by the Ministry vide OM dated 04.01.2019 for the said project/activity, while considering for grant of environmental clearance.

10. Based on recommendations of EAC, the Ministry of Environment, Forest and Climate Change hereby accords amendment in Environmental Clearance (EC) of IT Park at MIDC, Rajiv Gandhi, Infotech Park-II, Hinjewadi, Pune



District, Maharashtra by M/s Infosys Ltd, under the provisions of the EIA Notification, 2006 and amendments/circulars issued thereon, and subject to the specific and standard conditions are enclosed as **Annexure 1**.

**11.** This issues with the approval of the Competent Authority.

### **Copy To**

1. The Principal Secretary, Environment and Climate Change Department, Government of Maharashtra, New Administrative Bhavan, 15th Floor, Madame Cama Road, Mantralaya, Mumbai - 400 032, Maharashtra.
2. The DDG (C), Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Ground Floor, East Wing, New Secretariat Building, Civil Lines, Nagpur- 440 001.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110032.
4. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3<sup>rd</sup> and 4<sup>th</sup> floor, Opp. PVR Cinema, Sion Circle, Mumbai-400 022.
5. Monitoring Cell, MoEF&CC, Indira Paryavaran Bhawan, New Delhi.
6. Guard File/ Record File/ Notice Board/MoEF&CC website.

### **Annexure 1**

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

#### **1. Specific Conditions**

<b>S. No</b>	<b>EC Conditions</b>
<b>1.1</b>	The project proponent shall obtain the Fire safety certification from Fire Department and also height clearance from the Airports Authority of India and submit the same to the concerned Integrated Regional Office of the Ministry within six months of the issue of EC letter.
<b>1.2</b>	Abstraction of groundwater shall be subject to the permission of the Central Ground Water Authority (CGWA). The freshwater requirements shall not exceed 1197 KLD during the operational phase.
<b>1.3</b>	Wastewater shall be treated in the existing two STPs of 3000 KLD (1x1000+1x2000) capacity.
<b>1.4</b>	The project proponents would commission a third-party study on the implementation of conditions related to quality and quantity of recycling and reuse of treated water, efficiency of treatment systems, quality of treated water being supplied for flushing (especially the bacterial counts), comparative bacteriological studies from toilet seats using recycled treated waters and fresh waters for flushing, and quality of water being supplied through spray faucets attached to toilet seats.
<b>1.5</b>	Area for greenery shall be provided as per the details provided in the project document i.e., the area under plantation/greenery will be 2,00,335 sq. m out of total plot area of 4,63,380 sq. m, i.e. equivalent to 43.23 %. A minimum of 01 trees for every 80 sq. m of the total land area of the project should be maintained taking the existing trees into account. Species with heavy foliage, broad leaves, and wide canopy cover may be preferred. Invasive species should not be used for landscaping.
<b>1.6</b>	The local bye-law provisions on rainwater harvesting should be followed. If local bylaws provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Housing and Urban Affairs (erstwhile Ministry of Urban Development), Model Building

S. No	EC Conditions
	Byelaws, 2016. As proposed, 4 no's of rainwater collection tanks for rooftop runoff and 68 (42 existing wells) rainwater injection wells shall be provided by PP for rainwater harvesting after filtration.
1.7	The solid waste shall be duly segregated into biodegradable and non-biodegradable components and handled in a separate area earmarked for segregation of solid waste, as per SWM Rules, 2016.
1.8	As committed, biodegradable waste shall be utilized through the OWC to be installed within the site. Inert waste shall be disposed of as per norms at authorized site.
1.9	The recyclable waste shall be sold to authorized vendors/recyclers.
1.10	Construction & Demolition (C&D) waste shall be segregated and managed as per C&D Waste Management Rules, 2016.
1.11	As committed 171,105 sq. m (8,307 ECS) parking areas are to be provided and 10% of Electronic vehicle charging points are to be provided.
1.12	Proponent shall ensure the installation of solar-based lighting and LEDs to meet 10 % of the total power requirement and committed 10kw of solar hot water systems will be installed.
1.13	The Environmental Clearance to the project is primarily under provisions of EIA Notification, 2006. The Project Proponent is under obligation to obtain approvals/clearances under any other Acts/Regulations or Statutes as applicable to the project.
1.14	The proponent shall be responsible for undertaking the operation and maintenance of common facilities like STP, OWC, Green belt development, Solar, Rainwater Harvesting, and other such amenities provided within the project site for a period of 5 years after handed over to the <i>bona fide</i> Residential Welfare Association or any other such association and also for completing the formalities related to the transfer of environmental clearance to the <i>bona fide</i> Residential Welfare Association and when required.
1.15	Project proponent shall essentially comply with all parking norms and standards as applicable.
1.16	Proponent shall ensure that requirements of accessibility particularly universal accessibility and more particularly pedestrian requirements are provided. Street and road section should have mandatory provision of cross section elements and footpath so as to minimise the shift of walk mode to vehicular mode to have least impact on energy and environment.
1.17	The project proponent shall ensure that there more than one entry /exit from different directions however it should be checked that it does not create road safety hazard.
1.18	Other terms and conditions as stipulated vide EC letter dated 27.08.2018 shall remain unchanged.

**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.
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.

S. No	EC Conditions
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.
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.



S. No	EC Conditions
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.
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	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.



S. No	EC Conditions
3.17	No sewage or untreated effluent water would be discharged through storm water drains.
3.18	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.
3.19	Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
3.20	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

S. No	EC Conditions
	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.
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.

S. No	EC Conditions
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.
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

S. No	EC Conditions
	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 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



S. No	EC Conditions
	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) 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

S. No	EC Conditions
	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.

#### **Additional Terms of Reference**

- i. The proponent shall be responsible for undertaking the operation and maintenance of common facilities like STP, OWC, Green belt development, Solar, Rainwater Harvesting, and other such amenities provided within the project site for a period of 5 years after handed over to the *bona fide* Residential Welfare Association or any other such association and also for completing the formalities related to the transfer of environmental clearance to the *bona fide* Residential Welfare Association and when required.
- ii. Project proponent shall essentially comply with all parking norms and standards as applicable.
- iii. Proponent shall ensure that requirements of accessibility particularly universal accessibility and more particularly pedestrian requirements are provided. Street and road section should have mandatory provision of cross section elements and footpath so as to minimise the shift of walk mode to vehicular mode to have least impact on energy and environment.
- iv. The project proponent shall ensure that there more than one entry /exit from different directions however it should be checked that it does not create road safety hazard.