

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Department of Environment

Pranisampad Bhaban, 5th floor, LB-2, Sector-III,
Salt Lake, Kolkata-700 106.

Telefax No. 033 2335 5246

Website : www.environmentwb.gov.in

No. 1628 / EN/T-II-1/067/2019

Date : 17 /09 / 2021

To
M/s Infosys Ltd.,
44, Infosys Avenue, Electronics City, Hosur Road,
Bangalore – 560100.

SUB. : Environmental Clearance for the proposed IT/ITES Building along with MLCP building and service block 'INFOSYS' by **M/s. Infosys Ltd.** at Plot No. IIIG/2, Action Area – III, New Town, Kolkata, PS – Kolkata Leather Complex, Dist – South 24 Parganas, West Bengal.
[Proposal No. :-SIA/WB/MIS/104978/2019]

Sir,

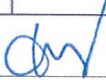
This has a reference to your application hardcopy of which was submitted to SEIAA on 29.08.2019 and subsequent communications for Environmental Clearance (EC) for the proposed IT/ITES Building along with MLCP building and service block 'INFOSYS' by **M/s. Infosys Ltd.** at Plot No. IIIG/2, Action Area – III, New Town, Kolkata, PS – Kolkata Leather Complex, Dist – South 24 Parganas, West Bengal.

The proposal has been examined and processed in accordance with the EIA Notification, 2006. The proposal is for construction of SDB 1 (IT/ITES building) – G+10, MLCP Building – G + Mezzanine Floor +4 and a Service Block – B+G+1+OWC+Gas Bank. Total built up area of the project is 109241.36 sq.m.

The Project Proponent obtained its sanctioned building plan vide PIN No. 0830333320190912 dated 12.09.2019 from NKDA.

Salient features of the proposed project are as follows –

Salient features	As per Sanctioned Plan
Land Area	202350.27 sqm. (as per Mutation Certificate) and 202292.3403 sqm. (as per Physical Survey)
Latitude & Longitude	22 ⁰ 32'42.53" N & 88 ⁰ 31'31.64" E
Block Details	SDB 1 (IT/ITES building) – G+10 MLCP Building – G + Mezzanine Floor +4 Service Block – B+G+1+OWC+Gas Bank
Total Built-up Area	109241.36 sqm
Expected Population	During Construction – 2000 persons. During Operation – 3017 persons
Total Water requirement	223 KLD
Fresh Water requirement	115 KLD (NKDA)
Wastewater generated	108 KLD
Wastewater recycled	108 KLD


Member Secretary, State Level Environmental Impact Assessment Authority



Proposed conditions for environmental clearance for the proposed IT/ITES Building along with MLCP building and service block 'INFOSYS' at Plot No. IIIG/2, Action Area – III, New Town, Kolkata, PS – Kolkata Leather Complex, Dist – South 24 Parganas, West Bengal by M/s. Infosys Ltd.

Salient features	As per Sanctioned Plan
Wastewater discharged	Zero discharge
Solid waste disposal	635 Kg/day
Ground Coverage	23094.58 sqm (11.42% of total land area)
Exclusive Tree Plantation Area	40519.41 sqm (20.03% of total land area)
Future expansion area	19564.68 sqm (9.67 % of total land area)
Road/Paved Area	49481.82 sqm (24.46 % of total land area)
Open Parking Area	3467.27 sqm (1.71% of total land area)
Service Area	2669.87 sqm (1.32 % of total land area)
Open Area	39898.64 sqm (19.72% of total land area)
Community Activity Area	16206.89 sqm (8.01 % of total land area)
Playground Area	1332.29 sqm (0.66 % of total land area)
Artificial Water body Area (landscaping features)	6056.89 sqm (2.99 % of total land area)
No. of plantation proposed	2825 nos.
No. of Parking spaces proposed	1550 nos (Bus-40 nos., car parking-1392 nos., LCV – 118 nos.)
Total Power requirement	3775 KVA, NTESCL
Solar power	31 KW
Backup Power	DG sets (3X2000 KVA each)
Project Cost (Rs.)	59,605.50 lakhs

State Level Environment Impact Assessment Authority (SEIAA), West Bengal examined the proposal and also perused recommendations of the State Level Expert Appraisal Committee (SEAC). After due consideration of the project proposal, and after considering the recommendations of the State Level Expert Appraisal Committee (SEAC), the State Level Environment Impact Assessment Authority accords Environmental Clearance to the project as per provisions of the EIA notification no. S.O. 1533 (E) dt. 14th September, 2006 of Ministry of Environment & Forests, GOI and the subsequent amendments, on the basis of above mentioned features along with other details submitted to SEIAA subject to strict compliance of the terms and conditions mentioned below.

Part A – SPECIFIC CONDITIONS

I. Statutory compliance:

- i. 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.

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- ii. 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.
- iii. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- iv. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- v. 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.
- vi. The project proponent shall obtain the necessary permission for drawl of ground water /surface water required for the project from the competent authority.
- vii. 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.
- viii. 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.
- ix. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
- x. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.
- xi. The project proponent should strictly comply with the guidelines for High Rise Buildings, issued by MoEF, GoI vide No. 21-270/2008-IA.III dated 07.02.2012.
- xii. The project proponent shall comply with the EMP as proposed in terms of Office Memorandum issued by the MoEF & CC vide F. No. 22-65/2017-IA.III dated 30.09.2020.

II. Air quality monitoring and preservation

- i. 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.
- ii. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
- iii. 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 PM25) covering upwind and downwind directions during the construction period.
- iv. 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.
- v. 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, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
- vi. Sand, murrum, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
- vii. Wet jet shall be provided for grinding and stone cutting.
- viii. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.

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- ix. 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 Rules 2016.
- x. 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.
- xi. 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.
- xii. For indoor air quality the ventilation provisions as per National Building Code of India.

III. Water quality monitoring and preservation

- i. 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.
- ii. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
- iii. Total fresh water use shall not exceed the proposed requirement as provided in the project details.
- iv. 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 of Ministry of Environment, Forest and Climate Change (MoEF&CC) along with State Level Environment Impact Assessment Authority (SEIAA) and West Bengal Pollution Control Board (WBPCB) along with six monthly Monitoring reports.
- v. 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.
- vi. 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.
- vii. 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.
- viii. 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.
- ix. 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.
- x. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- xi. The local bye-law provisions on rain water harvesting should be followed. If local byelaw 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.
- xii. 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.

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- xiii. All recharge should be limited to shallow aquifer.
- xiv. No ground water shall be used during construction phase of the project.
- xv. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the State Water Investigation Directorate (SWID) in the matter. Formal approval shall be taken from the SWID for any ground water abstraction or dewatering.
- xvi. 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.
- xvii. No sewage or untreated effluent water would be discharged through storm water drains.
- xviii. 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 Regional Office of MoEF&CC along with SEIAA and WBPCB 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 MoEF&CC. Natural treatment systems shall be promoted.
- xix. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
- xx. 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.

IV. Noise monitoring and prevention

- i. 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.
- ii. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Office of the MoEF&CC along with SEIAA and WBPCB as a part of six-monthly compliance report.
- iii. 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.

V. Energy Conservation measures

- i. 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.
- ii. Outdoor and common area lighting shall be LED.
- iii. 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.
- iv. 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.
- v. 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.
- vi. 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.

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VI. Waste Management

- i. 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.
- ii. Disposal of muck during construction phase shall not create any adverse effect on the neighboring 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.
- iii. 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.
- iv. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.
- v. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
- vi. 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.
- vii. 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.
- viii. 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.
- ix. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.
- x. 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.

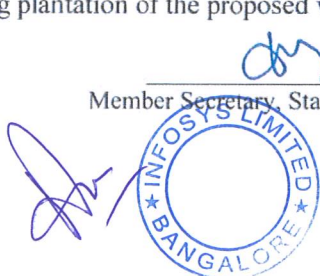
VII. Water Body Conservation:-

- i. Existing water body (if any) should not be lined and their embankments should not be cemented. The water body is to be kept in natural conditions without disturbing the ecological habitat.

VIII. Green Cover

- i. The unit should strictly abide by The West Bengal Trees (Protection and Conservation in Non-Forest Areas) Act, 2006 and subsequent rules. The proponent should undertake plantation of trees over at least 20% of the total area.
- ii. 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).
- iii. The proponent should plant at least 2825 nos. trees. List of tree species for plantation as per proposed plantation plan is given as Annexure-1. 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.
- iv. 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.
- v. 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.

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IX. Transport

- i. 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.
- ii. 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.
- iii. 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.

X. Human health issues

- i. 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.
- ii. For indoor air quality the ventilation provisions as per National Building Code of India.
- iii. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- iv. 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.
- v. Occupational health surveillance of the workers shall be done on a regular basis.
- vi. A First Aid Room shall be provided in the project both during construction and operations of the project.

XI. Environment Management Plan (EMP)

- i. The project proponent should submit the proposed EMP on a six monthly basis. The Office Memorandum issued by the MoEF & CC vide F. No. 22-65/2017-IA.III dated 30.09.2020 should be strictly followed.
- ii. Need based activities for local people is part of the EMP. Details of such activities submitted by the Project Proponent is given in Annexure-2.
- iii. 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


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be submitted to the Regional Office of MoEF&CC along with SEIAA and WBPCB as a part of six-monthly report.

- iv. 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 to the head of the organization.
- v. 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.
- vi. Year wise progress of implementation of action plan shall be reported to the Regional Office of MoEF&CC along with SEIAA and WBPCB along with the Six Monthly Compliance Report.

XII. Miscellaneous

- i. The environmental clearance accorded shall be valid for a period of 7 years for the proposed project.
- ii. 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.
- iii. 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.
- iv. 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.
- v. 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 with a copy to SEIAA and WBPCB.
- vi. 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.
- vii. The project proponent shall inform the Regional Office of the MoEF&CC along with SEIAA and WBPCB, 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.
- viii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- ix. 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 State Expert Appraisal Committee (SEAC).
- x. No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA.
- xi. 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.
- xii. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiii. The SEIAA reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiv. The Regional Office of the MoEF&CC/SEIAA/WBPCB shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the Regional Office of MoEF&CC / SEIAA/WBPCB by furnishing the requisite data / information/monitoring reports.


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- xv. 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.
- xvi. 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.
- xvii. The contact details of the proponent and the name of the consultant are given below –

Name of the Contact person with Designation	Mr. Biswajit Nayak Regional Manager (Facilities)
Address	44, Infosys Avenue, Electronics City, Hosur Road, Bangalore – 560100.
Email	investors@infosys.com
Telephone Number Fax No.	8028520261 8028520362
Name of the Environmental Consultant	M/s. ULTRA-TECH


(K. Balamurugan)
Chief Environment Officer &
Member Secretary, SEIAA

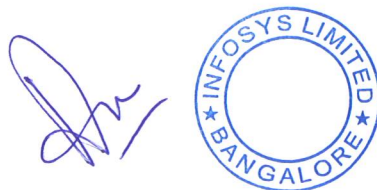
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Date : 17 /09 / 2021

Copy forwarded to:-

1. Secretary, SEAC & M.S. WBPCB
2. Officer-in-Charge, Regional Office (Eastern Zone), Ministry of Environment & Forests, Government of India, A-3, Chandrashekharpur, Bhubaneswar – 751 023, Orissa.
3. Member Convener, Monitoring Committee for Environmental Clearance, WBPCB.
4. Guard file / Record file.

Sd/-
Chief Environment Officer &
Member Secretary, SEIAA



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Annexure – 1

LIST OF TREES AS PER PROPOSED PLANTATION PLAN

SL. NO.	BOTANICAL NAME OF TREES	COMMON NAME OF TREES	QUANTITY
1	<i>Polyalthia longifolia</i>	Debdaru	151
2	<i>Azadirachta indica</i>	Neem	145
3	<i>Mimusops elengi</i>	Bakul	200
4	<i>Thespesia populnea</i>	Poros	142
5	<i>Syzygium cumini</i>	Jamun	237
6	<i>Pterospermum acerifolium</i>	Kanak champa	180
7	<i>Mangifera indica</i>	Mango	225
8	<i>Delonix regia</i>	Gulmohar	145
9	<i>Peltophorum ferruginium</i>	Radhachura	165
10	<i>Anthocephalus cadamba</i>	Kadamba tree	239
11	<i>Cassia fistula</i>	Amaltas	200
12	<i>Trema orientalis</i>	Pigeon wood	148
13	<i>Tectona grandis</i>	Shegun	220
14	<i>Terminalia arjuna</i>	Arjuna	180
15	<i>Aegle marmelos</i>	Bael	248
Total			2825

Annexure-2

Need based activities for local people

Sl. No.	Proposed need based activities	Investment (in lakhs)					Total (in lakhs)
		Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	
1	Rejuvenation and redevelopment of lake/waterbody	66	78	90	102	114.5	450.5
2	Tree plantation in consultation with different Govt. agencies	15	15	15	17	17	79
TOTAL		81	93	105	119	131.5	529.5





Member Secretary, State Level Environmental Impact Assessment Authority

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Mr. Biswas
Rm (Faculty)

Poor air shrinking your life by 7 years

Air Quality 8 Times Worse Than WHO Safe Limit

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Kolkata: Cleaning up the city's air through effective policies that stamp out pollution sources and reduces fossil fuel emissions can add up to seven years in a Kolkata's life. That is the loss in life expectancy that citizens in Kolkata current face due to high pollution level. Just meeting the standards on particulate pollution set by the World Health Organisation can help achieve the goal, the latest Air Quality Life Index (AQLI) report has revealed.

Developed by the Energy Policy Institute at the University of Chicago (EPIC), AQLI is a pollution index that translates particulate air pollution into its impact on life expectancy. The report revealed that Kolkata has the second-highest life expectancy loss after Delhi among Indian metro cities in 2019. While Delhi lost 9.7 years of life expectancy, it stood at 7.3 years for Kolkata. The AQLI findings are rooted in recent research that qualifies the relations between long-term exposure to air pollution and life expectancy.

Particulate pollution, the report said, has a more devastating impact on life expectancy than communicable diseases like tuberculosis and HIV/AIDS and behavioural killers like smoking and even war.

Because of high annual concentration of PM2.5 particulate matter — 84.8µg/m3 in 2019 — the potential loss in Kolkata's life expectancy was 7.3 years for not meeting the WHO annual standard of 10µg/m3, the global report revealed. According to the report, Bengaluru has the best air quality, with its life expectancy loss of 2.9 years.

Alarming, India's high levels of air pollution is expanded geographically over time. Compared to a couple of decades

HEALTH ALERT



City	PM2.5 count	National standard	WHO standard	Potential yr loss
Kolkata	84.8	40	10	7.3
Delhi	109	40	10	9.7
Mumbai	46.6	40	10	3.6
Bengaluru	39.6	40	10	2.9
Chennai	48.3	40	10	3.8

Source: AQLI report, Energy Policy Institute at the University of Chicago

WORST YEARS IN KOLKATA

2018	2017	2016
PM2.5 103.6µg/m3 Life loss 9.2 years	PM2.5 94.8µg/m3 Life loss 8.3 years	PM2.5 108.2µg/m3 Life loss 9.6 years

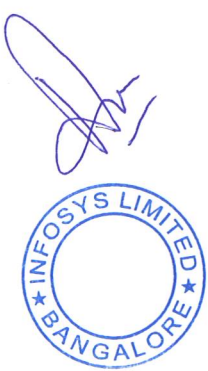
bounds in states like Maharashtra and Madhya Pradesh. For example, the average person in those states is now losing an additional 2.5 to 2.9 years of life expectancy.

According to the AQLI report, South Asia is home to the most polluted countries on earth, with Bangladesh, India, Nepal, and Pakistan accounting for nearly a quarter of global population and consistently ranking among the top five most-polluted countries in the world. According to AQLI, the estimated impacts are even greater across northern India, the region that experiences extreme levels of air pollution.

However, the report under-

the PM2.5 concentration was 103.6µg/m3 and life expectancy loss was 9.2 years. In 2017, pollution level was 94.8µg/m3 and life expectancy loss was 8.3 years. In 2016, the pollution level was 108.2µg/m3 with life expectancy loss at 9.6 years.

"The bad news is that the greatest impacts of air pollution remain concentrated in South Asia. But the good news is that governments in this region are recognizing the severity of the problem and are now beginning to respond," says Ken Lee, the director of AQLI. "The Indian government's National Clean Air Programme (NCAP) is an important step towards cleaner air and longer life



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