



Validity expires on 15-02-2023

***Proceedings of the State Environment Impact Assessment Authority
Kerala***

Present : Prof. (Dr.) K.P. Joy, Chairman; Dr. J. Subhashini, Member and Sri. P. Mara Pandiyan, I.A.S, Member Secretary.

Sub: Application for environmental clearance for the proposed expansion of existing IT/ITES SEZ campus project (M/s Infosys Limited) in Sy. No. 198(p), 143(p), 180(p), 181(p), 190(p), 191(p), 192(p), 200(p), 203(p), 183, 184, 186, 188, 194, 195, 196, 197, 199, 201, 202(p), 204(p), 223(p) and 224(p) in Block No. 18 at Attipra Village, Thiruvananthapuram Taluk, Thiruvananthapuram District by Adv. Dr. P. Ramadas Kamath, U.-Environmental Clearance- Granted.

STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY

No. 647/SEIAA/EC1/4943/2013

dated, Thiruvananthapuram 16-02-2016

- Read: 1. Application dated 15.10.2014 submitted by Sri. Ramadas Kamath, U., Sr. Vice President- Head Administration Facilities, Infrastructure & Security, M/s Infosys Limited, Plot No.1, Technopark Campus II, Attipra Village, Thiruvananthapuram-695583
2. Minutes of the 40th meeting of SEAC held on 29-05-2015.
3. Minutes of the 49th meeting of SEAC held on 07/08-12-2015.
4. Minutes of the 48th meeting of SEIAA held on 23-01-2016.

Environmental Clearance No. 13 /2016

Sri. Ramadas Kamath, U., Sr. Vice President- Head Administration Facilities, Infrastructure & Security, M/s Infosys Limited, Plot No.1, Technopark Campus II, Attipra Village, Thiruvananthapuram-695583 applied for Environmental Clearance under the EIA Notification dated 14-09-2006 for the proposed expansion of existing IT/ITES SEZ campus project (M/s Infosys Limited) in Sy. No. 198(p), 143(p), 180(p), 181(p), 190(p), 191(p), 192(p), 200(p), 203(p), 183, 184, 186, 188, 194, 195, 196, 197, 199, 201, 202(p), 204(p), 223(p) and 224(p) in Block No. 18 at Attipra Village, Thiruvananthapuram Taluk, Thiruvananthapuram District. The project comes under the Category B, 8(a) of Schedule of EIA Notification 2006. No forest land is involved in the present project. Project description is as under;

Item	Description provided by the proponent
Name of project	Environmental Clearance for the proposed expansion (Phase-2) of existing IT/ITES SEZ campus (Phase-1) project to be developed by M/s INFOSYS LIMITED.
Brief description of the project	Proposed expansion (Phase-2) of existing IT/ITES SEZ campus (Phase-1) project with total plot area 20.243 ha. (2,02,343.60 sq.m.) and total built-up area 3,76,369.96 sq.m. (E.C. obtained built-up area = 1,36,566 sq.m. + Proposed built-up area = 2,39,803.96 sq. m.)
Category/Subcategory & Schedule	Category 'B', Schedule 8 (b)



Location Sy no/ district, Taluk/ village etc.		Sy. No. 198(p), 143(p), 180(p), 181(p), 190(p), 191(p), 192(p), 200(p), 203(p), 183, 184, 186, 188, 194, 195, 196, 197, 199, 201, 202(p), 204(p), 223(p) and 224(p) in Block No. 18 at Attipra Village, Thiruvananthapuram Taluk, Thiruvananthapuram District.
GPS co-ordinates		Latitude (N) 8032'20.87" to 8031'50.86" Longitude (E) 76053'12.07" to 76052'56.71"
for Construction projects	Built up area (in m2)	3,76,369.96 sq.m. (E.C. obtained for built-up area = 1,36,566 sq. m. + Proposed built-up area = 2, 39,803.96 sq. m.)
	No. of floors	Ground + 10 floors
	Maximum height from ground level	48.30 m.
	Facilities proposed	IT/ITES Buildings (SDB-1, 2, 3, 4, 5 & 6), MLCP, Food court-1 & 2, First Aid / Health Centre, Hostel block, Services / Utilities block & Recreational areas, multi-level car parking block, STP, solid waste collection and processing facilities etc.
	Sufficiency of parking spaces/ traffic management	2,278 Cars + 2,316 Two wheelers + 33 Buses + Promotion of public transport
WATER		
Water requirement & sources	<ul style="list-style-type: none"> ➤ The total domestic water requirement of 1,115 KLD (which includes daily fresh water requirement of 711.50 KL). Treated water from STP to be used for flushing of toilets 675 KLD, Horticulture requirement will be of 91 KLD and Make-up water requirement for cooling towers attached to HVAC system 64 KLD ➤ Source: - Stored Rain water (Tanks & Ponds), Technopark water supply and treated water from STP. 	
RWH units proposed	<ul style="list-style-type: none"> ➤ The project has provision for rain water storage tanks / ponds which will be used as source of water during rainy days & non-rainy days. 	
Facilities for liquid waste treatment	<ul style="list-style-type: none"> ➤ After expansion a total of domestic sewage about 923 KL/day will be generated, which will be treated through STPs. (There is an existing STP having a capacity of 300 KLD and after expansion, additional 2 STPs to be developed within the project premises.) 	
Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers.	<ul style="list-style-type: none"> ➤ A thodu (storm water stream) is passing through project site which divides the total plot in two portions. There are bridges made across the stream. No impoundment, damming, realignment or other changes to the hydrology of surface water courses is proposed. 	
Water quality meeting requirements	<ul style="list-style-type: none"> ➤ Water quality meets requirements after the treatment of water (filtration & disinfection). 	
Provisions for use of recycled water	<ul style="list-style-type: none"> ➤ Treated water from STP to be used for flushing of toilets, horticulture water requirement and make-up water requirement for cooling towers attached to HVAC system. 	
LAND		
Access road to the site – Width & Condition	<ul style="list-style-type: none"> ➤ 45 m. wide (ROW) (NH-47 bye-pass), S side ➤ No need to construct any approach road. (Only internal roads will be constructed for traffic movement and parking. 	
Storage of explosives /hazardous substances	<ul style="list-style-type: none"> ➤ All precautionary measures in the storage & handling of HSD & PNG waste will be followed. 	



Facility for solid waste management.	<ul style="list-style-type: none"> ➤ Collection & segregation within the site (bio-degradable waste (green bins) & non-biodegradable waste (blue bins). ➤ The recyclable waste like packaging material, paper etc. would be sold through vendors. ➤ Bio-degradable waste & sludge from STP would be disposed through the proposed Bio-gas generation plant and Organic waste converter (OWC). ➤ The manure from the Bio-gas generation facility unit will be utilized for green area development within the premises. 	
Proneness to natural hazards.	<ul style="list-style-type: none"> ➤ As per the Indian Standards Seismic Zoning Map, the proposed area comes under Zone-III, moderate damage risk zone. The proponent stated that the project area is not prone to earthquake, erosion, subsidence and cloud-burst. There is no hilly area around the project site; there is no chance of landslides. 	
Top soil, overburden etc.	<ul style="list-style-type: none"> ➤ Excavation of earthwork will be carried out at site. The top soil which is fertile will be kept at site for landscaping work, back filling & internal road construction purposes. 	
AIR		
Air quality meeting requirements	Dust emission from construction phase	<ul style="list-style-type: none"> ➤ Dust generated during unloading of construction materials, drilling and grinding operations etc. there will be batching plants for the production of concrete mix. ➤ Sprinklers for suppression of dust will be installed during unloading and handling of construction materials. ➤ Wind breakers (i.e., barricades with GI sheets) or using shade nets will be used for dust control.
	Emissions from combustion of fossil fuels	<ul style="list-style-type: none"> ➤ The operation of proposed project does not envisage any major air pollutant generating source except D.G sets and vehicular movement during construction and operation phase. ➤ It is proposed to have D. G. sets of 3 nos. of 62.5 kVA capacity during construction phase. ➤ There are 2,000 kVAx2 nos. D. G. sets for the existing building and 2,000 kVAx3 nos. for the proposed facility.
Noise level meeting requirements	<ul style="list-style-type: none"> ➤ During Construction Phase: There will be some noise generate due to cutting of marble and other stone materials. ➤ Pile foundation excavation works generate vibration ➤ Uninterrupted movement of heavy and light vehicles at high speeds may cause increase in ambient noise levels on the project road (No significant <ul style="list-style-type: none"> ➤ The PPV levels from the pile driver would be maintained within 15 mm/sec. at 15 m. from the source of generation. Only rotary drilling machines will be engaged for excavation of pile foundation. ➤ Construction activity will be restricted to day time only. ➤ Noise generated from D.G. sets shall be silent generators to restrict the noise within the 	



	impacts)	permissible limit.
Likely emissions affecting environment	➤ Diesel Generators will be used only during emergency.	➤ By use of low sulphur diesel, the emission from the D. G. sets will be within the norms.
Hazardous waste generation and management	➤ Used oils from D. G sets, discarded fuel filters and oil filters, discarded generator batteries etc.	➤ These will be stored in HDPE drums in isolated covered facility and this will sold to the CPCB approved recyclers (M/s. Perfect Alloys, Chengannur; M/s. Peejay Enterprises, Tripunithura; M/s. Petrochemical, Kochi; M/s Cee Jee Lubricaants, Aluva).

ENERGY

Energy requirement & source	9 MVA, KSEB & D. G. Sets (2,000 kVA x 5 nos. as back-up).
Extent of usage of alternative energy resources	➤ Solar water heating system for the hot water generation and solar power operated street lights.

BIODIVERSITY

Presence of any endangered species or red listed category	➤ There is no Endangered species and no one species in red listed category
Loss of native species and genetic diversity	➤ There are some native tree species and different varieties of shrubs, herbs, grass, climbers existing at site. For the development of the proposed project, existing trees, shrubs, herbs, grass & climbers will be cleared.
Likely displacement of fauna	➤ Site selected for the project development does not exist as a habitat of any species.
Any introduction of alien / invasive species	<ul style="list-style-type: none"> ➤ Invasive species (shrubs) :- Chromolaena odorata (L.) R. M. King & H. Rob. Lantana camara L. ➤ Invasive species (Herbs) :- Colocasia esculenta (L.) Schott Salvinia adnata Desv. ➤ Invasive species (Climbers) :- Pueraria phaseoloides (Roxb.) Benth. Mikania micrantha Kunth

SOCIAL ASPECTS

Proximity to nearest habitation	➤ The project site is within the Corporation limits and several houses located within the 500 m. radius.
---------------------------------	--

CSR components suggested

Sl. No.	Description	Approx. Amount proposed	Remarks
1	Promotion of Education and Infrastructure Facility	Recurring = Rs. 21.51 lakhs Non-recurring = Rs. 14.42 lakhs	A detailed study on social status of the project site surroundings & need base study on proposed CSR activities were carried out. The summary of the report is provided.
2	Health Care	Recurring = Rs. 25.29 lakhs Non-recurring = Rs. 11.80 lakhs	
3	Health Care	Recurring = Rs. 25.29 lakhs Non-recurring = Rs. 11.80 lakhs	
4	Community development	Recurring = Rs. 14.45 lakhs Non-recurring = Rs. 31.80 lakhs	
5	Environmental Sustainability	Recurring = Rs. 10.30 lakhs Non-recurring = Rs. 13.00 lakhs	



Total	Recurring = Rs. 88.12 lakhs Non-recurring = Rs. 73.02 lakhs	
Envt Mgmt plan/ Eco restoration plan (brief details)	<p>The proposed project has provision for</p> <ul style="list-style-type: none"> ➤ Treatment of sewage and it's fully recycling ➤ The project has made provision for rain water storage tanks / ponds ➤ Bio-gas generation plant & Organic waste converter (OWC) within the project site for disposal of the bio-degradable solid waste along with sludge from the STP ➤ As part of the eco restoration, large number of saplings of native species would be planted. ➤ D.G. sets with noise control measures and stack for flue gas. ➤ Sufficient parking as per KMBR. 	
Biomedical waste management	<ul style="list-style-type: none"> ➤ Provision of first aid/health care centre within the campus. The bio-medical waste generated from the healthcare centre within the campus is outsourced through IMAGE. ➤ An MoU is entered into between the project proponent & the agency for the same. 	
E-waste management	<ul style="list-style-type: none"> ➤ Discarded computer parts, monitor, key boards etc. constitutes e-waste and this waste will be stored in an earmarked area. ➤ E-waste will be generated after 4-5 years latency period ➤ Separate earmarked space will be provided for e-waste storage. ➤ Stored e-waste will be disposed through M/s Earth Sense Recycles Pvt. Ltd., a KSPCB approved agency for disposal of e-waste as per E Waste (Management & Handling) Rules, 2012. 	
Litigation, if any, against the project	No.	
Total cost of the project with details	1265.25 crores	
Details of Authorised Signatory	<p>Ramadas Kamath, U., Sr. Vice President- Head Administration Facilities, Infrastructure & Security, M/s Infosys Limited, Plot No.1, Technopark Campus II, Attipra Village, Thiruvananthapuram, Kerala-695583</p>	
Details of NABET approved EIA consultant organisation	<p>M/s Environmental Engineers & Consultants Pvt. Ltd. (at Sr. No. 54 as per MoEF & CC list of Accredited Consultant Organization) Head Office :- A1-198, Janak Puri, New Delhi. Branch Office:- C-306, Kanchanjunga Apartments, Palarivattom P.O., Kochi, Kerala.</p>	

2. The proposal was placed in 40th meeting of SEAC held on 29th May 2015. As the proponent could not attend the meeting, the proposal was considered in the 49th meeting of SEAC held on 7th & 8th December 2015m as Agenda Item no. 49.16. Further to the intimation of SEAC, the proponent along with the consultant attended the meeting and the consultant made a brief power-point presentation. The committee observed that instead of applying for the ToR for EIA, the proponent on 17.10.2014 submitted an application for EC without draft ToR. SEIAA overlooked the omission and transmitted the application for appraisal and it



was placed before the committee only on its 40th meeting held on 29th May 2015 and though the proponent was requested to be present he was not represented in the meeting. Hence the committee deferred the proposal. Meanwhile the proponent submitted draft ToR on 9.9.2015 to SEIAA. Since it did not come up before the committee for consideration it became deemed on expiry of prescribed time limit. Hence the proponent presented the EIA report before the committee based on the standard ToR. The Committee observed that the proposed area falls under SEZ. EC for the existing building was obtained from MoEF on 4.06.2008.

3. The committee observed that a thodu is dividing the project area and the proponent informed that it will be retained and the connecting drain from the thodu will be conserved. The proponent also informed that they have provided sufficient setback from the 110 high tension line which is passing through the northern side of the proposed area. The Committee suggested providing tree belt with native species near the NH side of the proposed area. The proponent informed that they proposed biogas plant and organic waste convertors for solid waste management.

4. The Committee appraised the proposal based on Form-I, Form-IA, EIA report and all other documents submitted along with the application and decided to *recommend* for issuance of Environmental Clearance with following specific conditions, in addition to the general conditions stipulated for building projects subject to the production of following documents/details.

- 1) The emergency parking facility proposed should be ear marked.
- 2) Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile toilets. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.
- 3) Disposal of muck during construction phase should not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
- 4) Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate water courses and the sump sites for such materials must be secured so that they should not leach into the ground water.
- 5) Any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approvals of the Kerala State Pollution Control Board.
- 6) The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards.
- 7) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- 8) Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfil requirement.

5. Hence the proposal was considered by SEIAA in its 48th meeting held on 23.01.2016 and the Authority considered the recommendations and decided to grant E.C subject to the above and the additional specific condition that ***“a tree belt shall be formed with native species near the NH side of the proposed area”***, and the general condition for building projects.



6. Environment clearance as per the EIA notification 2006 is hereby accorded for the proposed expansion of existing IT/ITES SEZ campus project (M/s Infosys Limited) in Sy. No. 198(p), 143(p), 180(p), 181(p), 190(p), 191(p), 192(p), 200(p), 203(p), 183, 184, 186, 188, 194, 195, 196, 197, 199, 201, 202(p), 204(p), 223(p) and 224(p) in Block No. 18 at Attipra Village, Thiruvananthapuram Taluk, Thiruvananthapuram District by Adv. Dr. P. Ramadas Kamath, U. for M/s. Infosys Limited, subject to the clarifications and conditions in paras 5 and 6 above . The clearance will be subject to all the environmental impact mitigation and management measures specified in the documents submitted by the project proponent to SEIAA, and the mitigation measures specified against each in the table in para 1 above. The assurance in form IA of the application (Appendix II) and clarifications given by the proponent will be deemed to be part of these proceedings as if incorporated herein. Also the general conditions for projects other than mining appended hereto the following green guidelines will be applicable and have to be strictly adhered to.

- Technology and capacity of the STP to be indicated with discharge point (if any) of the treated effluent.
- Effluent water not conforming to specifications shall not be let out to water bodies
- Maximum reuse of grey water for toilet flushing and gardening and construction work shall be ensured.
- Dual plumbing for flushing shall be done.
- Provisions for disposal of e-wastes, solid wastes, non-biodegradables and separate parking facility for the buildings shall be provided.
- Generation of solar energy to be mandatory for own use and/or to be provided to the grid.
- Mitigation measures to reduce carbon dioxide production as part of climate change action shall be adopted.

7. Validity of the Environmental Clearance will be seven years from 01-10-2015, subject to earlier review in the event of noncompliance or violation of any of the conditions stipulated herein.

8. Compliance of the conditions herein will be monitored by the Directorate of Environment and Climate Change or its agencies and also by the Regional Office of the Ministry of Environment and Forests, Govt. of India, Bangalore.

- i) Necessary assistance for entry and inspection by the concerned officials and staff should be provided by the project proponents.
- ii) Instances of violation if any shall be reported to the District Collector, Malappuram to take legal action under the Environment (Protection) Act 1986.

9. The given address for correspondence with the authorized signatory of the project, Sri. Ramadas Kamath, U., Sr. Vice President- Head Administration Facilities, Infrastructure & Security, M/s Infosys Limited, Plot No.1, Technopark Campus II, Attipra Village, Thiruvananthapuram-695583.

Sd/
P. Mara Pandiyan., I.A.S
Member Secretary (SEIAA)
&
Additional Chief Secretary to Government
Environment & Forest Department
Government of Kerala



To,

Sri. Ramadas Kamath, U.,
Sr. Vice President- Head Administration Facilities,
Infrastructure & Security,
M/s Infosys Limited, Plot No.1,
Technopark Campus II,
Attipra Village,
Thiruvananthapuram-695583

Copy to:

1. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4th Floor, E&F Wing, II Block, Koramangala, Bangalore-560034
2. The Principal Secretary to Government, Environment Department, Government of Kerala
3. The District Collector, Thiruvananthapuram.
4. Principal Secretary, IT & Electronic Department.
5. The Secretary, Zonal Office of Municipal Corporation of Thiruvananthapuram, Kachani-Aruvikkara Road, Vattiyoorkavu, Nettayam, Thiruvananthapuram-695013
6. Chairman, SEIAA, Kerala.
7. Website
8. Stock file
9. O/c



Forwarded/ By order

Administrator
SEIAA

G. RAJEEV
Administrator
State Environment Impact Assessment Authority
Pallimukku, Pettah
Thiruvananthapuram-695024
Phone: 0471-2742264

GENERAL CONDITIONS (for projects other than mining)

- (i) Rain Water Harvesting capacity should be installed as per the prevailing provisions of KMBR / KPBR, unless otherwise specified elsewhere.
- (ii) Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.
- (iii) Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, inclusive of approach road and internal roads.
- (iv) The project shall incorporate devices for solar energy generation and utilization to the maximum possible extent with the possibility of contributing the same to the national grid in future.
- (v) Safety measures should be implemented as per the Fire and Safety Regulations.
- (vi) STP should be installed and made functional as per KSPCB guidelines including that for solid waste management.
- (vii) The conditions specified in the Companies Act, 2013 should be observed for Corporate Social Responsibility.
- (viii) The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for the project.
- (ix) Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating activity.
- (x) All other statutory clearances should be obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives.
- (xi) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Authority.
- (xii) The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
- (xiii) The stipulations by Statutory Authorities under different Acts and Notifications should be complied with, including the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.
- (xiv) The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which (both the advertisement and the newspaper) shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the Department of Environment and Climate Change, Govt. of Kerala and may also be seen on the website of the Authority at www.seiaakerala.org. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.
- (xv) A copy of the clearance letter shall be sent by the proponent to concerned Grama Panchayat/ District Panchayat/ Municipality/Corporation/Urban Local Body and also to the Local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The Environmental Clearance shall also be put on the website of the company by the proponent.
- (xvi) The proponent shall submit half yearly reports on the status of compliance of the stipulated EC conditions including results of monitored data (**both in hard copies as well as by e-mail**) and upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the respective Regional Office of MoEF, Govt. of India and also to the Directorate of Environment and Climate Change, Govt. of Kerala.
- (xvii) The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times New Roman font of size of not less than 40.
- (xviii) The proponent should provide notarized affidavit (*indicating the number and date of Environmental Clearance proceedings*) that all the conditions stipulated in the EC shall be scrupulously followed.




G. RAJEEV
Administrator
State Environment Impact Assessment Authority
Pallimukku, Pettah
Thiruvananthapuram-695024
Phone: 0471-2742264