

ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT

for the period of
(December, 2018 to May, 2019)

for

Infosys Ltd.

IT Project

**at Village Maan, Tal-Mulshi
Pune**

**(Environmental Clearance Letter F. No. 21-157/2017-IA-III
Dated 27th August, 2018)**



**Proposed by
Infosys Limited**

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Environmental Clearance

Government of Maharashtra

File No: 21-157/2017-IA-III
Government of India, Ministry of
Environment Forest and Climate Change
(IA-III Section) Indira Paryavaran Bhawan,
Jor Bagh Road, New Delhi-3
Date: 27th August 2018

To,
M/s, Infosys Ltd. Pune
Plot No.24, Rajiv Gandhi Infotech Park,
Phase-II, Village Mann, Hinjawadi, Mulshi,
Pune-411 057, Maharashtra
E mail: infosyspune2016@gmail.com

Subject: Project expansion of IT Project at plot no. 24, Rajiv Gandhi Infotech Park, Phase II, Village Mann, Taluka Mulshi, Hinjawadi, Pune, Maharashtra by M/s, Infosys Limited, Environmental clearance reg.

Sir,

This has reference to your online proposal No. IA/MH/NCP/62924/2017 dated 1st December 2017, submitted to this Ministry for grant of Environmental Clearance (EC) in terms of the provisions of the Environmental Impact Assessment (EIA) Notification, 2006 under the Environmental (Protection) Act, 1986.

2. The proposal for grant of environmental clearance to the project "Proposed expansion of IT Park at plot no. 24, MIDC, Rajiv Gandhi Infotech Park, Phase II, Village Mann, Taluka Mulshi, Hinjawadi, Pune, Maharashtra by M/s, Infosys Limited was considered by the Expert Appraisal committee (Infra-2) in its 26th meeting held on 14-15 December, 2017 and 31st meeting held on 29-30 May 2018. Further corrections in the minutes of meeting of 31st meeting has been made in 32nd EAC (Infra-2) meeting held on 2-4 July, 2018. The details of the project, as per the documents submitted by the project proponent, and also as informed during the above meeting are as under:-

- i. Project is located at 18o35'50.2N-18o35'59.7N latitude and 73o42'20.2"E-73o43'43.2"E longitude.
- ii. This is an expansion project. Earlier EC was issued by SEIAA, Maharashtra vide letter No. SEAC-2010/CR.707/TC.2 dated 9th June 2011. Construction yet to start for proposed expansion.
- iii. The total plot area is 4, 63,380 sqm, FSI area is 6, 64,220 sqm. (Permissible FSI) and total construction area of 8, 67,692 sqm. The project will comprise of SDB-12 (G+18), MLCP-3 (G+10), Collection Sump, Convention Centre, Gas Bank 1 & 2, Gas Bank 3, Gas Bank 4, Auditorium, MLPL2+Security Cabin, Security Block-4, Security Block-5 (dog Shed), Scrap Yard-2, 220 KVA Substation, Biogas Plant, Amphitheatre, MLPL 4 (G+10) Buildings. No flats shall be developed. Maximum height of the building is (G+18) 65 M.
- iv. During construction phase, total water requirement is expected to be 100 KLD which will be met through tankers. Also approximately local 400 labourer workers will be deployed during construction; therefore total quantity of water is estimated to be 54 m³/d to meet the requirement of labour. The domestic wastewater (Sewage) generated will be 43m³/d. During the construction phase, soak pits and septic tanks will be provided for disposal of waste water. Temporary sanitary toilets will be provided during peak labour force.

- v. During Operational phase, total water demand of the project is expected to be 2840 KLD (2709 KLD + 131 KLD proposed) and the same will be met by the MIDC supply/reused/Recycled water. Wastewater generated 2260 KLD (2155 KLD existing + 105 KLD proposed) uses will be treated in 2260 KLD STPs of total 2 MLD+1MLD capacity. 2260 KLD of treated wastewater will be recycled (reuse for flushing, for gardening). About 0 KLD will be disposed in to Municipal drain.
- vi. About 928 Kg/day solid waste will be generated in the project. The biodegradable waste (556.80 Kg/day) will be processed in OWC and the non-biodegradable waste generated (371.200 Kg/day) will be handed over to authorized vendor.
- vii. The total power requirement during construction phase will be met from MSEDCL and back up DG set and total power requirement during operation phase is 15.35 MVA (MSEDCL), 24 MVA (DG Set) and will be met from MSEDCL and back up DG Set.
- viii. Rooftop rainwater of buildings will be collected in an area of influence of 100 meters and depth of 20 meters for 68 No. of Injection well (52 existing and 16 proposed) boreholes RWH tanks of total 1,36,000 m³/annum capacity for harvesting after filtration.
- ix. There will be increase in number of employees in the campus as a result there will be increase in the vehicles. As vehicles will not ply inside the campus, they will directly enter into the Multi-Level Parking (MLP) there will be no need on developing additional infrastructure for additional vehicles. For internal movement of persons there are 14 electric golf carts inside the campus which takes away persons from one place to other.

Description of Item	Existing	Proposed	Total after Expansion
Parking area	2957.48 Sqm.	10358.5 Sqm.	12315.98 Sqm.
Buses	140	-	140
Cars	4976	6608	11584
Scooter	400	3605	4005
Cycle	1000	-	1000

- x. It is located in the MIDC already approved and developed Hinjawadi as Rajiv Gandhi Infotech Park.
 - xi. The project was granted standard ToR by MoEF &CC vide letter No. 21-157/2017-IA-III dated 19.06.2017
 - xii. There is no court case pending against the project.
 - xiii. Investment/cost of the project is Rs. 690 Crores.
 - xiv. Employment Potential: The existing IT professional is 31288, and the proposed it will be additional 3712, so the total IT Professionals at Infosys campus will be 35000 after expansion.
 - xv. Benefits of the project: The proposed expansion project will develop environmental feature in the project area and enhance over all environment of the area.
3. The project activity is covered under item 8(b) "Townships and Area Development Projects' of the Schedule to the EIA Notification, 2006.
 4. The EAC, in its meetings held on 14-15 December, 2017 and 29-30 May, 2018, after detailed deliberations on the proposal, has recommended for the grant of Environmental Clearance to the project. As per the recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the project "Proposed expansion of IT Park at plot no. 24, MIDC, Rajiv Gandhi Infotech Park, Phase II, Village Mann, Taluka Mulshi, Hinjawadi, Pune, Maharashtra by M/s, Infosys Limited, under the provisions of EIA notification, 2006 and amendments/circulars issued thereon, and subject to the specific and general conditions as under:-

Conditions of Environmental Clearance

File No: 21-157/2017-IA-III Dated 27th August, 2018

PART A – SPECIFIC CONDITIONS:

Sr.	Conditions	Compliance	Annex	Photo
i.	Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.	We have obtained Consent to Establish vide order No. Format/1.0/BO/CAC-Cell/UAN No.0000046901/E/5 th CAC – 1811001384 dated 29 th November 2018. The copy of the same is attached herewith for the reference. We shall obtain Consent to Operate for proposed project after completion as required.	✓	
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.	We shall ensure 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 all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the constructions shall be done in accordance with the local building byelaws.	We shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. We shall ensure that all the constructions done in accordance with the local building byelaws.		
Topography and natural Drainage				
iv.	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 system (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.	We shall ensure the same.		

Sr.	Conditions	Compliance	Annex	Photo
Water requirement, Conservation, rain water Harvesting, and Ground Water Recharge:				
v.	As proposed, fresh water requirement from MIDC water shall not exceed 2840 KLD	We shall ensure the same.		
vi.	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.	We have a separate agreement with MIDC, the developing authority, for the supply of the water demand of 3000 KLD for the Existing and proposed Project in total. (Attached copy)	✓	
vii.	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 records shall be submitted to the Regional office, MoEF & CC along with six monthly Monitoring reports.	Attached herewith the average water balance data for October 2018 to March 2019 as requested.	✓	
viii.	At least 20% of the open spaces as required by the local building bye-laws shall be previous. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as previous surface.	We shall ensure the same.		
ix.	Installation of duel pipe plumbing for supply of 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	We shall ensure the same.		

Sr.	Conditions	Compliance	Annex	Photo
x.	Use of water saving devices/fixtures (viz. low flow flushing system; use of low flow faucets tap aerators etc.) for water conservation shall be incorporated in the building plan.	Flow reducers are used for showers. Pressure Compositing Aerators are used for the taps. PRVs are installed for toilet flushing for the existing buildings. We shall ensure the same for proposed buildings also.		
xi.	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	We are in compliance of the same for existing operational areas. We shall ensure the same for proposed project.		
xii.	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	We have used ready mix concrete during construction phase of existing structures. We will ensure the same during the proposed project construction activity as applicable.		
xiii.	The local bye-laws provision on the 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 Ministry of Urban Development Model Building Bye-laws, 2016. Rooftop rainwater of buildings will be collected in 68 Nos. of Injection well (52 existing and 16 proposed) boreholes.	We shall ensure the same.		
xiv.	As proposed, no ground water shall be used during construction/ operation phase of the project.	We are in compliance with the same.		
xv.	Any ground water dewatering should be properly managed and shall confirm 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	We shall ensure the same.		

Sr.	Conditions	Compliance	Annex	Photo
Solid Waste Management:				
xvi.	The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastic Waste (Management) Rules, 2016 shall be followed.	We are in compliance with the same.		
xvii.	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, inly in approved sites with the approval of competent authority.	The muck generated during construction phase will be disposed-off as per the secondary Mineral rules, duly approved by the District Collector, Pune.		
xviii.	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. Wet garbage shall be composted in Organic Waste Convertor. Adequate area shall be provided for solid waste Management within the premises which will include area for segregation, composting. The inert waste from group housing project will be sent to dumping site	<p>We have provided wet and dry garbage bins as per requirement. The segregation and disposal of solid waste is carried out as per requirement. Wet garbage is treated within campus through Biogas plant.</p> <p>Adequate area is provided for solid waste Management within the premises which includes area for segregation, composting etc.</p>		
xix.	Any hazardous waste generated during the construction phase, shall be disposed-off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.	The Project being an IT park in nature is generating an insignificant quantity of hazardous waste. This will be disposed of as per applicable rules. Waste generated from the project site will be collected by Authorized vendor.		
xx.	A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater the M.S.W. generated from project shall be obtained.	Infosys is a Zero Municipal solid waste discharge company. The municipal solid waste generated is either treated within the campus or sent to authorize recyclers. Please find attached the letter submitted to local body on the M.S.W for obtaining the certificate.	✓	

Sr.	Conditions	Compliance	Annex	Photo
Sewage Treatment Plant:				
xxi.	Sewage shall be treated in the STP based on MBR technology with tertiary treatment i.e. Ultra filtration. The treated effluent from STP shall be recycled/re-used for flushing and gardening. No treated water will be disposed to municipal drain.	<p>Sewage treatment plant (STP) of capacity 3 MLD is provided, which is in operation.</p> <p>We have MBR technology which includes ultra-filtration membrane system (hollow fiber membranes) which replaces the solids separation function of secondary clarifiers & filtration in a conventional activated sludge process. The treated effluent is used for toilet flushing & landscape irrigation.</p> <p>No treated water will be disposed to municipal drain.</p>		✓
xxii.	No sewage or untreated effluent water would be discharged through storm water drains.	We shall ensure the same.		
xxiii.	The installation of 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. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP	<p>Attached is the report from independent expert for Sewage treatment plant installed and in operation.</p> <p>We are monitoring the quality of treated sewage water on monthly basis.</p> <p>We have taken necessary steps to control the odour from the STP</p>	✓	
xxiv.	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.	<p>We have provided Sludge drying beds for STP sludge and the sludge is used as manure in the landscape area after stabilization.</p> <p>We are also in process of installing Solar sludge drying system.</p>		

Sr.	Conditions	Compliance	Annex	Photo
Energy:				
xxv.	Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the state which have notified their own ECBC, shall comply with the state ECBC. Outdoor and Common area lighting shall be LED. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelop, 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	<p>We are in compliance with the ECBC. Following energy conservation measures taken in existing building</p> <ol style="list-style-type: none"> 1] LED lighting system 2] Movement Sensors – For all Rest Rooms & Cabins 3] Single Phase Cassette Air Conditioners With Energy Saving Equipment 4] Installation of VFD - for HVAC - Application 5] Timers for Street Lights & Play Court Lights 6] Artic master - The Refrigerant Optimization System for Air cooled chillers 7] Introduction of Solar/wind Generator 8] Installation of Heat Pump for FCs / ECC 9] Installation of VFD for AHUs <p>We shall ensure all the above measures are considered during design for proposed buildings.</p>		✓
xxvi.	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. Used CFLs, TFL and LED shall be properly collected and disposed-off/ sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.	<p>We shall ensure same are considered during design for proposed buildings.</p> <p>Used light fittings will be disposed-off as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.</p>		✓
xxvii.	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. Follow super ECBC requirement of ECBC 2017 and provide compliance report.	We have installed solar panels for lighting of capacity 1157 KW which account to 10% of demand load (11500 KW)		✓

Sr.	Conditions	Compliance	Annex	Photo
xviii.	Solar power shall be used for lighting in the apartment to reduce the load on power 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 requirement of the local bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.	We are using solar power for lighting inside the buildings and also provided separate meter for the same. Around 70% of the hot water demand through solar heaters.		
xix.	Use of environmental friendly material 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 environmental friendly materials. 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 27 th August, 2003 and 25 th January, 2016. Ready mixed concrete must be used in building construction.	We have used fly ash for construction of the existing buildings as per requirement. We shall ensure the same for proposed project.		
xxx.	A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project shall be obtained.	We have an agreement with MSEDCL for the supply of the 11500 KV load demand which is already installed. If required for the expansion project we will obtain necessary certificate from MSEDCL for the same.		
Air Quality and Noise:				

Sr.	Conditions	Compliance	Annex	Photo
xxi.	Construction site shall be adequately barricaded before the construction begins. Dust, smoke and other air pollution prevention measures shall be provided for the building as well as 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 material prone to causing dust pollution at the site as well as taking out debris from the site. Sand, murrum, loose soil, cement stored on the site shall be covered adequately so as to prevent dust pollution. Wet jet shall be provided for grinding and stone cutting. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.	We shall ensure compliance as per the requirement at construction site to prevent dust pollution.		
xxii.	All construction and demolition debris shall be stored at the store (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 provision of the Construction and Demolition Waste Rules, 2016. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any areas with dust pollution shall be provided with the dust mask.	The construction waste generated during construction phase is being disposed-off as per the secondary Mineral rules, duly approved by the District Collector, Pune and as per the requirement under Construction and Demolition Waste Rules, 2016. We are providing the dust mask to all workers working in the project site		
xxiii.	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.	Diesel power generating sets proposed as source of backup power are of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of DG set stack is as per norms. We are using low sulphur diesel.		

Sr.	Conditions	Compliance	Annex	Photo
xxiv.	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.	Diesel power generating sets proposed as source of backup power are of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of DG set stack is as per norms. We shall use low sulphur diesel.		
xxv.	For indoor air quality the ventilation provisions as per National Building Code of India.	We will ensure ventilation provisions as per National Building Code of India.		
xxvi.	A management plan shall be drawn up and implemented to contain the current exceeding in ambient air quality at the site.	The ambient air quality at the site is well below the standards prescribed under NAAQS by CPCB. We are monitoring the ambient air quality at the site on regular basis and the reports of the same are submitted through Half yearly compliance reporting. Ambient Air quality reports from December 2018 to April 2019 are attached. May 2019 reports will be shared in next submission cycle.	✓	
xxvii.	Ambient noise level shall conform to commercial standard both during day and night as per Noise (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during the construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to confirm to the stipulated standards by CPCB/SPCB.	The ambient noise quality at the site is well below the standards prescribed under NAAQS by CPCB. We are monitoring the ambient noise quality at the site on regular basis and the reports of the same are submitted through Half yearly compliance reporting. Ambient noise quality reports from December 2018 to April 2019 are attached. May 2019 reports will be shared in next submission cycle.	✓	
Green Cover:				

Sr.	Conditions	Compliance	Annex	Photo
xxviii.	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. Preference should be given to planting native species. Where the trees need to be cut, compensatory plantation in the ratio of 1:3 (i.e. planting 03 trees for every 1 tree that is cut) shall be done and maintained. As proposed, area of 2, 00,335 sqm shall be provided exclusively for green-belt/ landscape development.	We have planted 23482 Nos. of trees in the total plot area of 463380 sqm, which is already complying with the requirement. We will be planting more trees in future after project development. We will providing area of 2, 00,335 sqm for green belt / landscape development.		✓
Top Soil preservation and reuse:				
xix.	Topsoil should be stripped to a depth of 20 cm from the areas proposed for building, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.	The topsoil has been stored & reused for the development of the green belt (Landscaping) within our campus. Cutting & filling of earth at site has been optimized.		
Transport:				
xl.	<p>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:</p> <ul style="list-style-type: none"> • Hierarchy of roads with proper segregation of vehicular and pedestrian traffic • Traffic calming measures • Proper design of entry and exit points • Parking norms as per local regulations 	<p>Attached is the Internal Road plan for the proposed project.</p> <p>Proper Segregation of vehicular and pedestrian traffic is considered as per requirement. Traffic calming measures are considered in the plan.</p> <p>Parking lots are designed to be near periphery of the project area to ease entry and exist movement.</p> <p>Parking provided as per norms:</p> <p>Existing parking: Four wheeler slots: 2166 Nos. Two Wheeler slots: 7358 Nos.</p> <p>Proposed Parking: Four wheeler slots: 1252 Nos. Two Wheeler slots: 1500 Nos.</p>		

Sr.	Conditions	Compliance	Annex	Photo
xli.	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.	<p>We are in process of developing the detailed traffic management and traffic decongestion plan in coordination with State Urban Development department.</p> <p>We will share the same in next half yearly compliance report.</p>		
xlii.	Vehicle hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should confirm to applicable air and noise emission standards be operated only during non-peak hours.	We will ensure the same during project development activity.		
Environment Management Plan:				

Sr.	Conditions	Compliance	Annex	Photo
xlili.	An Environmental Management Plan (EMP) as prepared and submitted shall be implemented to ensure compliance with the environmental conditions specified above. A dedicated Environmental Monitoring Cell with defined functions and responsibility shall be put in place to implement the EMP. The environmental cell shall ensure that the environment infrastructure like Sewage Treatment Plant, Landscaping, Rain Water Harvesting, Energy efficiency and Conservation, water efficiency and conservation, solid waste management, renewable energy etc. are kept operational and meet the required standards. The environmental cell shall also keep the record of environmental monitoring and those related to the environment infrastructure.	We have prepared Environmental Management Plan for the project. We do have dedicated Environmental Monitoring Cell to implement the EMP and ensure compliance to the requirement stipulated herewith.		
Others:				
xliv.	Provision shall be made for the housing of the 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.	We have provided all basic infrastructure and facilities at labour housing camp.		
xlvi.	A First Aid Room shall be provided in the project during construction and operations of the project.	A first aid room is provided at the project site along with the ambulance facility.		
xlvi.	The company shall draw up and implement corporate social Responsibility plan as per the Company's Act of 2013.	<p>We are in process of evaluating the CSR plan with respect to below activities:</p> <ul style="list-style-type: none"> • Waste Water treatment • Solid waste Management • Solar Lighting system <p>We will share the details in next half yearly compliance report.</p>		

Sr.	Conditions	Compliance	Annex	Photo
dvii.	As per the Ministry's Office Memorandum F. No. 22-65/2017-IA.III dated 1 st Mar 2018, and proposed by the project proponent, an amount of Rs. 3.45 Crore (@0.5% of project cost) shall be earmarked under Corporate Environment Responsibility (CSR) for the activities such as Skill % Economic Development activities, Education facilities, Health & medical facilities, Drainage & sanitation facilities, infrastructure development and agriculture Improvement program. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.	<p>We have earmarked 0.5% of Project cost for CER activities as per requirement.</p> <p>We are in process of evaluating the CSR plan with respect to below activities:</p> <ul style="list-style-type: none"> • Waste Water treatment • Solid waste Management • Solar Lighting system <p>We will share the details in next half yearly compliance report.</p>		
PART B – GENERAL CONDITIONS:				
i.	A copy of Environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's office/ Tehsildar's office for 30 days.	We are in compliance with the same.		
ii.	The funds earmarked for environmental protection measures shall be kept in separate account shall not be diverted for the purpose. Year-wise expenditure shall be reported to this ministry and its concerned Regional office.	We will ensure the same during project development and will ensure yearly reporting of the expenditures to Regional Office.		

Sr.	Conditions	Compliance	Annex	Photo
iii.	Officials from the Regional office of MoEF & CC, Nagpur who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents/ data by the project proponents during their inspection. A complete set of all the documents submitted to MoEF & CC shall be forwarded to the APCCF, Regional office of MoEF & CC, Nagpur.	We will ensure the same during the inspections by the officials.		
iv.	In the case of any change(s) in the scope of project, the project would require a fresh appraisal by this Ministry.	We agree and ensure compliance with the same.		
v.	The Ministry reserved 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 Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	We agree.		
vi.	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, The Forest Conservation Act, 1980 and the Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.	We shall ensure all required statutory clearances are in place before start of the operations.		
vii.	These stipulations would be enforced among other under the provision 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 the EIA Notification, 2006	We agree and comply		

Sr.	Conditions	Compliance	Annex	Photo
viii.	The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environment Clearance and copies of clearance letters are available with State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forest and Climate Change at http://www.envfor.nic.in . The advertisement shall be made within Seven days from the date of receipt of the Clearance letter and a copy of the same shall be forwarded to the Regional Office of this Ministry at Nagpur.	We have received the EC letter on 15 th September 2018. We have advertised in two local newspapers on 21 st September 2018. Attached the same for your reference.	✓	
ix.	An appeal against this clearance 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.	We agree.		
x.	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	We have put the EC letter on our website. https://www.infosys.com/sustainability/approvals/Documents/environmental-clearance-pune.pdf		

Sr.	Conditions	Compliance	Annex	Photo
xi.	The proponent shall upload the status of compliance of the stipulated EC condition, including results of monitored data on their website and shall upload the same periodically. It shall simultaneously be sent to the Regional Office of MoEF & CC, the respective zonal office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO ₂ , NO _x (Ambient level as well as stack emissions) or critical sectorial parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	<p>We have uploaded the status of compliance of the stipulated EC conditions on our website along with monitoring reports on regular basis.</p> <p>Copy of the same is being submitted to Regional office of MoEF & CC and zonal office of CPCB & MPCB.</p>		
xii.	The Environmental Statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF & CC by e-mail.	<p>We have put the Environment Statement on our website. https://www.infosys.com/sustainability/approvals/Documents/environmental-statement-pune.pdf</p> <p>Copy of the same already submitted to Regional office of MoEF & CC and zonal office of MPCB, Pune.</p>		
xiii.	This issues with the approval of Competent Authority.	We agree		

Annexure I
Previous Compliance Report Submitted copy
(As per EC condition: li – Attached Separately)

Annexure II
Site Photograph
(As per EC condition)

Fire-fighting Equipment



Rain water harvesting system



Injection Well



Biomedical Waste Disposal System



STP



Biogas plant



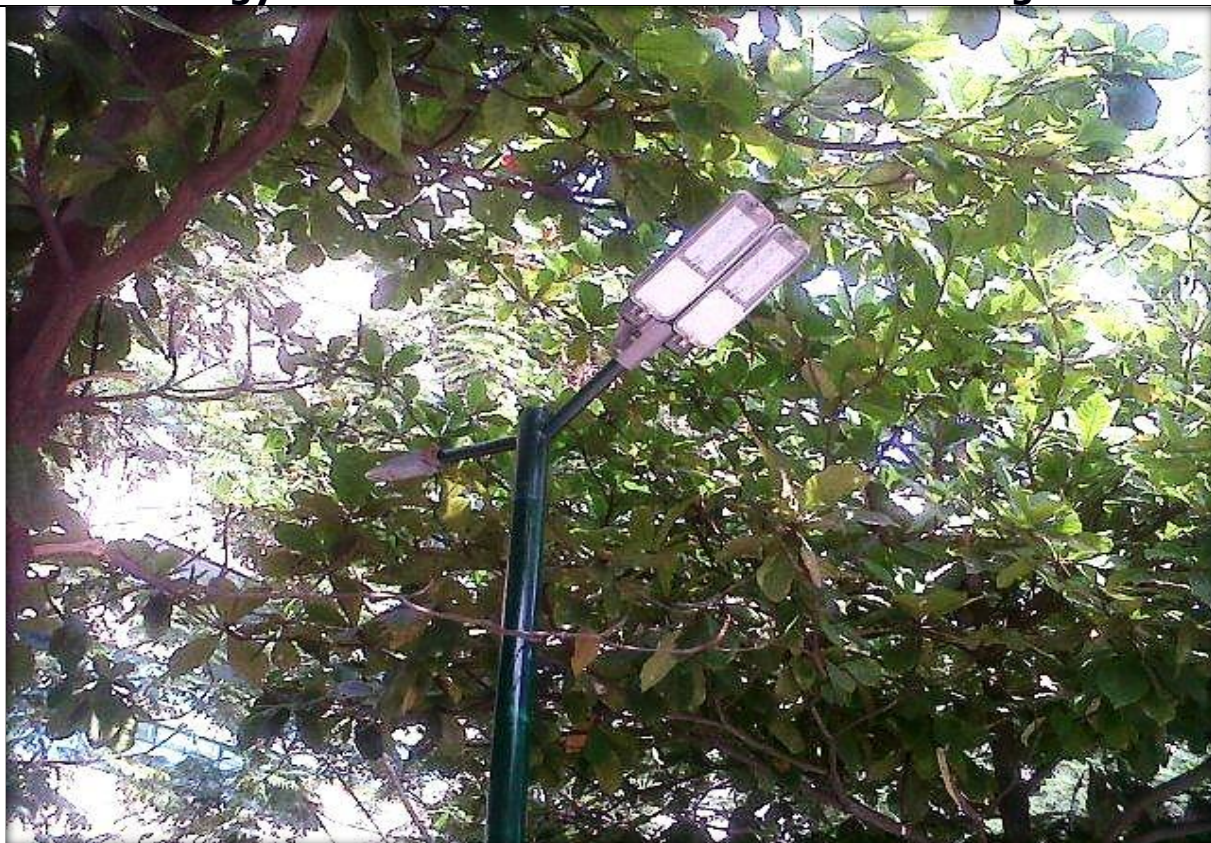
Storm water drainage system



First aid Facilities



Energy conservation measures solar street light



Energy conservation measures solar panels



Parking area



Safety Equipment



Landscape Development



Medical Facility



Vermicomposting



Annexure III
Monitoring Reports – Ambient Air
(Attached Separately)

Annexure III
Monitoring Reports – Ambient Noise
(Attached Separately)

Annexure IV
Environment Clearance letter
(Attached Separately)

Annexure V

Form -V



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

Environmental Audit Report for the financial Year ending the 31st March 2018

Company Information

Company Name	Application UAN number	
Infosys Limited	NA	
Address		
Rajiv Gandhi Info Tech Park, Hijawadi Phase -2		
Plot no	Taluka	Village
Plot No. 24	Mulshi	Mann
Capital Investment (In lakhs)	Scale	City
153956	Large	Pune
Pincode	Person Name	Designation
411057	Vijaya Lakshmi Mani	AVP-Regional Head, Facilities
Telephone Number	Fax Number	Email
020-39827000	020-39828000	ozone_pune@infosys.com
Region	Industry Category	Industry Type
SRO-Pune II	Orange	other
Last Environmental statement submitted online	Consent Number	Consent Issue Date
yes	Format 1.0/BO/CAC-cell/CR/CAC-10214	13.10.2016
Consent Valid Upto		
28.02.2021		

Product Information

Product Name	Consent Quantity	Actual Quantity	UOM
NA	NA	NA	CMD

By-product Information

By Product Name	Consent Quantity	Actual Quantity	UOM
NA	NA	NA	CMD

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
	0	0
Cooling	0	0
Domestic	2708.91	1226.69
All others	0	0
Total	2708.91	1226.69

1) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Domestic Effluent	2155.07	1569.69	CMD

Annexure VI

Ambient Air Quality Standards in respect to Noise

SCHEDULE

(see rules 3(1) and 4(1))

Ambient Air Quality Standards in respect of Noise

Area Code	Category of Area / Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
(A)	Industrial area	75	70
(B)	Commercial area	65	55
(C)	Residential area	55	45
(D)	Silence Zone	50	40

- Notes:-
1. Day time shall mean from 6.00 a.m. to 10.00 p.m.
 2. Night time shall mean from 10.00 p.m. to 6.00 a.m.
 3. Silence zone is an area comprising not less than 100 metres around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority.
 4. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

* dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

A "decibel" is a unit in which noise is measured.

"A", in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.

Leq: It is an energy mean of the noise level over a specified period.

Annexure VII

National Ambient Air Quality Standards



The Gazette of India

EXTRAORDINARY PART III-Section 4 FLS/IS/EO 8th AUTHORITY
New Delhi, WEDNESDAY, NOVEMBER 18, 2009 No.3-23016/20/93/FCI-I

National Ambient Air Quality Standards: Central Pollution Control Board

In exercise of the powers conferred by Sub-section (2) (i) of section 16 of the Air (Prevention and Control of Pollution) Act, 1981 (Act No.14 of 1981), and in suppression of the Notification No(s). S.O.384(E), dated 11th April, 1994 and S.O.935(E), dated 14th October, 1998, the Central Pollution Control Board hereby notify the National Ambient Air Quality Standards with immediate effect, namely:

Sr. No.	Pollutant	Time Weighted Average	Concentration in Ambient Air		
			Industrial, Residential, Rural and Other Areas	Biologically Sensitive Areas (Polluted by Control Government)	Methods of Measurement
(1)	(2)	(3)	(4)	(5)	(6)
1	Sulphur Dioxide (SO ₂) µg/m ³	Annual * 24 hours **	50 80	20 80	- Improved West gas Gases - Ultraviolet fluorescence
2	Nitrogen Dioxide (NO ₂) µg/m ³	Annual * 24 hours **	40 80	30 80	- Modified Jacob & Hochheiser (Na-Arsenite) - Chemiluminescence
3	Particulate Matter (size less than 10 µm) or PM ₁₀ µg/m ³	Annual * 24 hours **	60 100	60 100	- Gravimetric - TOBM - Beta attenuation
4	Particulate Matter (size less than 2.5 µm) or PM _{2.5} µg/m ³	Annual * 24 hours **	40 60	40 60	- Gravimetric - TOBM - Beta attenuation
5	Ozone (O ₃) µg/m ³	8 hours ** 1 hour **	100 180	100 180	- UV photometric - Chemiluminescence - Chemical Method
6	Lead (Pb) µg/m ³	Annual * 24 hours **	0.50 1.0	0.50 1.0	- AAS/ICP method after sampling on EPM 2000 or equivalent filter paper - EDXRF using Teflon filter
7	Carbon Monoxide (CO) mg/m ³	8 hours ** 1 hour **	02 04	02 04	- Non Dispersive Infra Red (NDIR) spectroscopy
8	Ammonia (NH ₃) µg/m ³	Annual * 24 hours **	100 400	100 400	- Chemiluminescence - Indophenol blue method
9	Benzene (C ₆ H ₆) µg/m ³	Annual *	05	05	- Gas Chromatography based continuous analyzer - Adsorption and Desorption followed by GC analysis
10	Benzo (a) Pyrene (BaP) - particulate phase only, ng/m ³	Annual *	01	01	- Solvent extraction followed by HPLC/MS analysis
11	Arsenic (As) ng/m ³	Annual *	06	06	- AAS/ICP method after sampling on EPM 2000 or equivalent filter paper.
12	Nickel (Ni) ng/m ³	Annual *	20	20	- AAS/ICP method after sampling on EPM 2000 or equivalent filter paper.

* Annual arithmetic mean of minimum 304 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

** 24 hourly or 08 hourly monitored values, as applicable, shall be complied with 98% of the time in a year, 2 % of the time, they may exceed the limits but not on two consecutive days of monitoring.

Notes: Whenever and wherever monitoring results in two consecutive days of monitoring exceed the limits specified above for the respective category, it shall be considered adequate reason to initiate regular or continuous monitoring and further investigation.

SANT PRASAD GAUTAM, Chairman, Central Pollution Control Board (ADVT-III/4/13409/Exy.)

Notes: The notifications on National Ambient Air Quality Standards were published by the Central Pollution Control Board in the Gazette of India, Extraordinary vide notification No(s). S.O. 384(E), dated 11th April, 1994 and S.O. 935(E), dated 14th October, 1998.



Rajivram Mehra B.E., M.T.E. (Industrial Management), Chartered Engineer, P.T.E. Ltd. (Environment, Chennai)
Mehra Engineering Pvt. Ltd., 10 Chandrasekhar, Tikar Road, Mulund East, Mumbai-400032. Tel: 022-2631573 Fax: 022-2631573 rajivram@mehta.com
Environmental Laboratory Recognized by Ministry of Environment & Forests, Govt. of India, New Delhi vide 12512 of Environment (Pollution) dated 1998

Annexure VIII
Water Agreement copies STPI
(Attached Separately)

Annexure VIII
Water Agreement copies SEZ
(Attached Separately)

Annexure IX
Consent to Establish
(Attached Separately)

ANNEXURE X

WATER BALANCE DIAGRAM – EXISTING (October 2018 – March 2019)

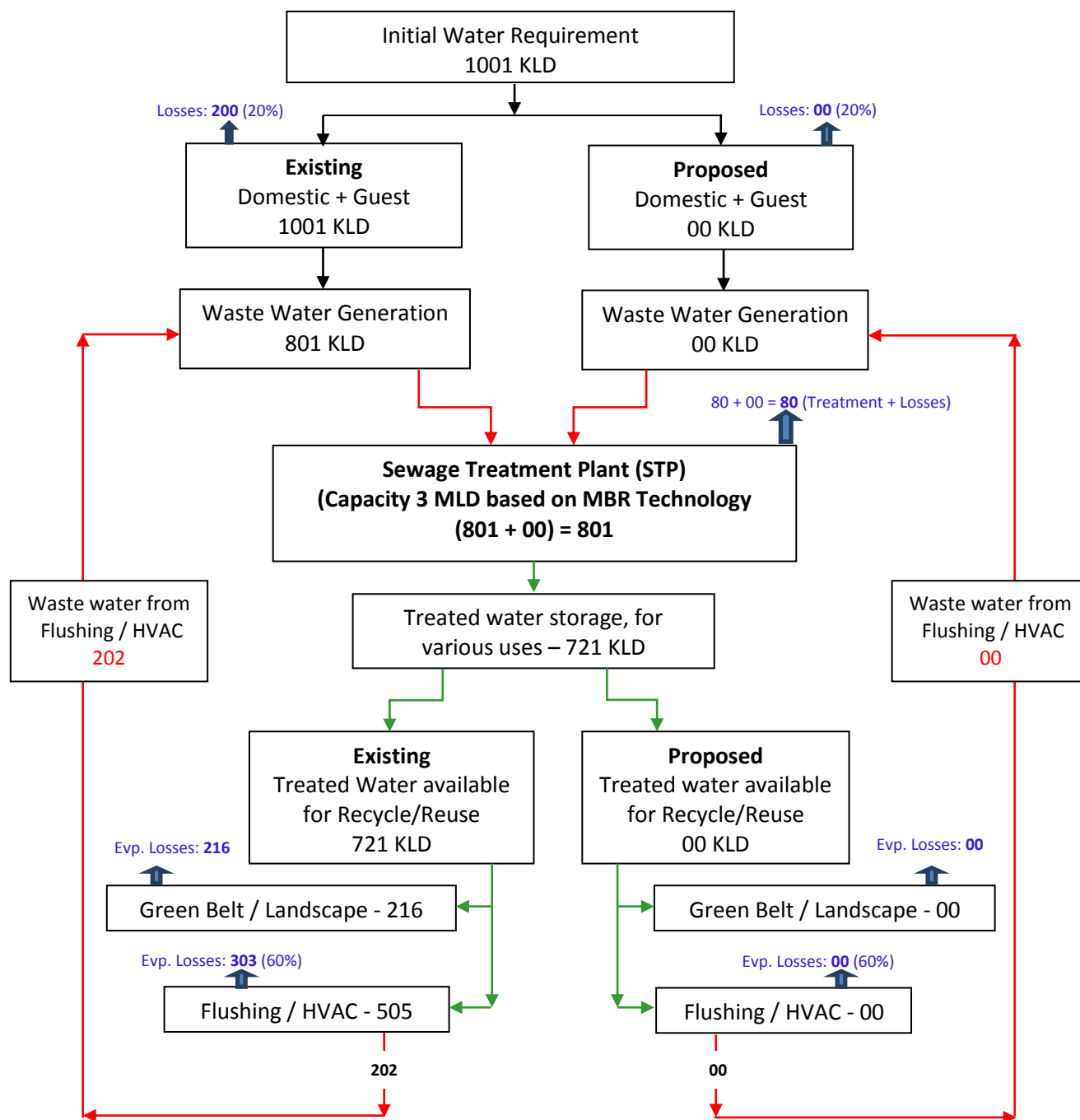


Figure-1: Total Water Balance (including Existing & Proposed quantity)

- Initial total water requirement is 1001 KLD,
- Total evaporation losses are observed 599 KLD,
- Total wastewater from Flushing / HVAC (202+0) = 202 KLD available for recycle,
- Hence daily fresh water requirement will be 1001-202 = 800 for Existing.

Annexure XII

STP Inspection report from Independent Expert

Water Treatment Solutions & Systems.

Office: 02,Meghmalhar society,
Paud road, Kothrud,
Pune, 411038, ph.9822398030
Date: 9th March 2013

To: Sobha Developers
Sarjapur-Marthahalli Outer Ring Road (ORR)
Devarabisanahalli, Bellandur Post
Bangalore – 560103
Tel: +91-80-49320499 Ext. 4204 | Mobile: 9901971652
Email: damothiran.v@sobha.com

Subject: The Performance Audit of the Infosys STP2 – 3000m³/day

I have visited the site at Infosys , Hinjewadi , Pune on 7th March 2013

I have made the thorough check of the operational Procedures (HMI based and also the manual operations), in my own capacity as third party auditor.

I have experience of design and Implementation for the WTP (filters, Softneres, UF, RO and EDI)

And WWTP such as MBR based systems.

I am Chemical engineer and member of American Institute of Chemical engineers USA.

My observations are purely technical and this report is based on my past visit to this plant and my involvement as Peer review of the Mysore STP-MBR plant in the Infosys campus (3MLD)

The Plant: this is 3000 m³/day peak capacity Plant

Design Basis for the Sewage Treatment Plant

Raw and Treated Sewage Characteristics

Parameter	Units	Raw Effluent	Treated Sewage
pH		6.5-7.5	6.5 – 8.0
BOD	mg/l	300 - 350	10 - 20
COD	mg/l	400 – 600	< 150
SS	mg/l	150 - 200	< 10

Annexure XIII
Project Map – Internal Road structure
(Attached Separately)

Annexure XIV Annexure XIV - Letter to MIDC

o/c

Infosys
POWER TO INTELLIGENCE
GROWING BY VALUES

IL/MW/FAC/GA/12-18/168

27th December 2018

To,
The Executive Engineer,
MIDC, IT Division,
4th Floor, Jug Centre, Wakolewadi,
Pune-411 003

KIND ATTENTION: MR. NILESH MODIWE

Dear Sir,

SUBJECT: CERTIFICATE FOR MUNICIPAL SOLID WASTE MANAGEMENT

We have recently received the Environmental Clearance for the expansion project at Infosys Phase 2 location. One of the General conditions of the clearance demands for the following certificate from the local civic body is:

Certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater the M.S.W. generated from project shall be obtained.

As you are aware, Infosys is a Zero Municipal solid waste discharge company. We segregate the municipal Solid waste at the source into various categories and the same is disposed off to the waste recycler directly and thus generating minimal load on the existing Civic capacity of handling the M.S.W.

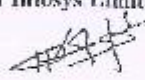
We will assure you that we will continue these best practice during our expansion project execution and thereafter during the operations.

We hereby request you to provide the Certificate as requested above.


Thanking you,

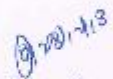
Yours faithfully,

For Infosys Limited,




Vijayalaxmi Mani
Associate Vice President – Regional Head- Facilities




Clerk to Executive Engineer
MIDC, Pune-3.

Ref: 1. Consent to Operate from MPCB
2. Environmental Clearance from MoEF
3. Process for Waste management



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Pajun Garden IT Infotech Park
Phase II, Vajra Nagar, Hinjawadi
Taluka Mulshi, Pune 411 057, India
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F: 91 20 3952 9000

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F: 91 80 2852 0362
askus@infosys.com
www.infosys.com