

ITL/TVM/FAC/SEZ/015/2020

21st May 2020

The Director – IA, III.
Room No. 524, 5th Floor,
The Ministry of Environment & Forest (MOEF),
Paryavaran Bhavan, C.G.O Complex, Lodhi Road,
New Delhi – 110 033

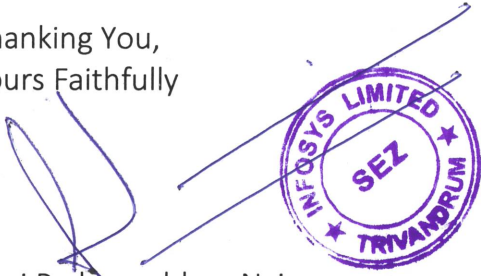
Sub: Six monthly post ECC - Operation and construction phase monitoring report for the period of October-2019 to March-2020 of Software Development IT Park (SEZ) at Attippra Village. Trivandrum District.

Reference: ECC No: 647/SEIAA/EC1/4943/2013 dated 16.02.2016

Dear Sir,

With reference to the above, please find enclosed the copy of the report submitted to SEIAA Trivandrum on 21st May 2020 for the project with relevant annexures.

Thanking You,
Yours Faithfully



Devi Padmanabhan Nair
Regional Manager – Facilities

Enclosures:

1. Copy of the letter submitted to SIEAA.
2. Reports –
Annexure-1: STP outlet sample analysis report
Annexure-2: UGR Out sample analysis report
Annexure-3: Ambient air quality report
Annexure-4: DG Stack emission report
Annexure-5: Noise level monitoring report
Annexure-6: Solar Power generated details

INFOSYS LIMITED
SEZ Unit 1, Plot No. 1
Technopark Campus II
Attippra Village
Thiruvananthapuram 695 583, India
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ITL/TVM/FAC/SEZ/014/2020

21st May 2020

The Administrator,
State Environment Impact Assessment Authority (SEIAA),
K.S.R.T.C Bus Terminal Complex,
4th Floor, Thampanoor,
Thiruvananthapuram - 695 001

Dear Sir,

Sub: Six monthly post ECC - Operation and construction phase monitoring report for the period of October-2019 to March-2020 of Software Development IT Park (SEZ) at Attippra Village. Trivandrum District.

Reference: ECC No: 647/SEIAA/EC1/4943/2013 dated 16.02.2016

Please find enclosed Six months' report for the project with relevant annexures.

Thanking You,
Yours faithfully

Devi Padmanabhan Nair
Regional Manager – Facilities



Enclosures:

1. Reports –

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Received
22/5/2020

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MoEF report for Construction Phase& Operation Phase (SEZ) Oct'19 to Mar'20.

Sl No.	Conditions Imposed	Compliance taken by us																														
Water																																
1.	Water requirement & sources	Water is sourced through Technopark which is treated and stored in Underground reservoir for operation. Sewage water is treated at the STP within the campus.																														
2.	RWH units	2 ponds have been created with a total capacity of 36118cum inside the campus with proper side pitching and desilting towards collecting rain water.																														
3.	Facilities for liquid waste treatment	Sewage generated in the campus is treated through Sewage Treatment Plant (STP) of capacity 500KLD which is based on Membrane Bio Reactor Technology (MBR). Recycled water from Sewage treatment plant will be utilized for Irrigation, flushing & cooling purposes. Treated water quality confirms to KSPCB prescribed standard (Annexure 1). STP Outlet Report detail: Feb 2020.																														
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4.	Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers	No impoundment, damming, realignment or other changes to the hydrology of surface water courses is done. We have a thodu/canal passing through the campus, which has been maintained and water flow has been enhanced by pitching with additional culvert in the downstream In addition to this, yearly desilting of Thodu is done for ensuring free flow of water.																														
5.	Water quality meeting requirements	Monthly monitoring is carried out through a PCB approved external agency to ensure that the water quality meets IS 10500 requirement and reports attached for the last 6 months (Oct'19 to Mar'20) and maintained at site. (Annexure 2).																														
6.	Provisions for use of recycled water	Recycled water from STP is utilized for irrigation, flushing and cooling requirements within the campus.																														
LAND																																
7.	Access road to the site –Width & Condition	Main Access road to the site is through NH-66 by-pass and service road available for easy entry to the site. For safety movement of the pedestrians and vehicles, crash barriers and traffic signals are placed along the service road and at the NH Sides																														
8.	Storage of explosives/hazardous substances	All precautionary measures have been taken and also obtained valid license from Petroleum and Explosives Safety Organization (PESO) for storage of HSD valid till 31 st Dec 2020.																														
9.	Facility for solid waste management.	In Operation phase as part of solid waste management, segregation is achieved at source by provision of signage's, color coded bins and the same is stored and disposed as per the standards. The food waste generated is fed in to 350kg capacity digester biogas plant wherein the biogas generated is used for cooking purpose																														
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10.	Proneness to natural hazardous.	As per the Indian Standards Seismic Zoning Map, the campus area comes under Zone – III, moderate damage risk zone. Scheduled Mock drills are conducted so as to make the employees aware on what to do in case of an emergency. Safe Assembly point identified to accommodate all the employees safely in one place in case of an emergency.																														

11.	Top soil, overburden etc.	The top soil is used for landscaping work. Overburden is used for back filling and internal road construction purpose.											
AIR													
12.	Air quality meeting requirements	Dust emission from construction phase	<p>Provision of GI Sheets/green shade as barrication for controlling dust. Also regular monitoring of air quality is done and report maintained. Reports attached. (Annexure 3).</p> <p>Ambient Air Quality Report: Feb'20</p> <table border="1"> <thead> <tr> <th colspan="3">Ambient Air Quality (in between SDB 1 & SDB 2)</th> </tr> <tr> <th>Parameter</th> <th>Stipulated Limit</th> <th>Results</th> </tr> </thead> <tbody> <tr> <td>Particulate Matter (PM10)</td> <td>100 µg/m³</td> <td>49.2 µg/m³</td> </tr> </tbody> </table>	Ambient Air Quality (in between SDB 1 & SDB 2)			Parameter	Stipulated Limit	Results	Particulate Matter (PM10)	100 µg/m ³	49.2 µg/m ³	
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Emissions from combustion of fossil fuels	<p>There is no major air pollutant generating source except DG sets and vehicular movement during construction and operation phase.</p> <p>It is ensured that transportation of construction materials is done only during non-peak hours.</p> <p>DG's are used as backup power generation in case of Grid power failure. Appropriate stacks with stipulated height is provided for DG's as Air pollution control measures. Monthly monitoring of stack emission is done and reports attached for last 6 months (Oct'19 to Mar'20) and report maintained. (Annexure 4).</p> <p>Stack Monitoring Report Detail – Feb'20 (DG II PII)</p> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Stipulated Limit</th> <th>Results</th> </tr> </thead> <tbody> <tr> <td>Particulate Matter</td> <td>75 mg/ Nm³</td> <td>28 mg/ Nm³</td> </tr> <tr> <td>Sulphur Dioxide</td> <td>1200 mg/ Nm³</td> <td>70 mg/ Nm³</td> </tr> <tr> <td>Oxides of Nitrogen</td> <td>710 ppmv</td> <td>30.4ppmv</td> </tr> </tbody> </table>	Parameter	Stipulated Limit	Results	Particulate Matter	75 mg/ Nm ³	28 mg/ Nm ³	Sulphur Dioxide	1200 mg/ Nm ³	70 mg/ Nm ³	Oxides of Nitrogen	710 ppmv	30.4ppmv
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13.	Noise level meeting requirements	<ul style="list-style-type: none"> ➤ During Construction Phase: There will be some noise generated due to cutting of marble and other stone materials ➤ Uninterrupted movement of heavy and light vehicles at high speeds may cause increase in ambient noise levels on the project road (No significant impacts) 	<ul style="list-style-type: none"> ➤ Marble and Tiles are located far away from the operational phase, ie at designated area thereby decreasing the effect of noise pollution. Workers are equipped with Personal Protective equipment's (PPE's). ➤ It is ensured that good conditioned vehicles are used for transporting construction materials thereby resulting in decrease of noise levels, also strictly following the speed limit of 20km/hr and securities posted to keep a check on vehicle speeding. Transportation is during non-peak hours. ➤ Monthly noise monitoring is done and reports attached for last 6months (Oct'19 to Mar'20). (Annexure 5). 										
14.	Likely emissions effecting environment	There is no major air pollutant generating source. DG's are used as backup power generation in case of Grid power failure. Appropriate stacks with stipulated height is provided for DG's as Air pollution control measures. Monthly monitoring of stack emission is done and reports attached for last 6 months (Oct'19 to Mar'20) and report maintained. (Annexure 4).											

15.	Hazardous waste generation and management	Hazardous wastes generated are collected, stored and disposed through CPCB & KSPCB authorized vendors. A designated Scrap Yard available inside campus for storing the Hazardous and Non Hazardous waste generated.
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ENERGY

16.	Energy requirement & source	Source of Power supplied to the campus is through Technopark. DG has been installed which is used as backup power generation in case of Grid power failure. Average Power consumption for (Oct'19 to Mar'20) is 625007 kwh/month.
17.	Extent of usage of alternative energy resources	Grid connected Solar panels of 826kwp has been installed which caters to 16% of total campus power consumption for the period of (Oct'19 to Mar'20) Monthly Power generation from solar power has been attached. (Annexure 6). Average Solar power generated for (Oct'19 to Mar'20) is 102049.67kwh/month. In addition to this, Solar power generated on weekends and public holidays are exported to Technopark.

BIODIVERSITY

18.	Presence of any endangered species or red listed category	<p>Unique initiative towards safeguarding Rare Endangered and Threatened (RET) species of native plants / trees is taken up. A dedicated area of approx. 1.5 acres is planted with RET species and medicinal plants like galangal, black vasa, ayapana, aloe vera, vasaka, pepper mint.</p> <p>List of RET Species Planted:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Plant Name</th> <th style="width: 30%;">Common Name</th> <th style="width: 20%;"></th> </tr> </thead> <tbody> <tr> <td>Hopea parviflora</td> <td>Thambakam</td> <td rowspan="15" style="text-align: center; vertical-align: middle;">Trees</td> </tr> <tr> <td>Vateria indica</td> <td>White Dammar</td> </tr> <tr> <td>Aphanamixis polystachya</td> <td>Chemmaram</td> </tr> <tr> <td>Alstonia scholaris</td> <td>Indian Devil Tree</td> </tr> <tr> <td>Calophyllum Inophyllum</td> <td>Pinna</td> </tr> <tr> <td>Pterocarpus santalinus</td> <td>Red sandal wood</td> </tr> <tr> <td>Kingiodendron pinnatum</td> <td>Kodapaala</td> </tr> <tr> <td>Vateria indica</td> <td>White Dammar</td> </tr> <tr> <td>Hopea parviflora</td> <td>Thambakam</td> </tr> <tr> <td>Hopea ponga</td> <td>Kambakam</td> </tr> <tr> <td>Mesua ferrea</td> <td>Indian Rose Chestnut</td> </tr> <tr> <td>Semecarpus auriculata</td> <td>Cari</td> </tr> <tr> <td>Humboldtia decurrens</td> <td>Kunthani</td> </tr> <tr> <td>Buchanania lanceolate</td> <td>Mala Mavu</td> </tr> </tbody> </table>	Plant Name	Common Name		Hopea parviflora	Thambakam	Trees	Vateria indica	White Dammar	Aphanamixis polystachya	Chemmaram	Alstonia scholaris	Indian Devil Tree	Calophyllum Inophyllum	Pinna	Pterocarpus santalinus	Red sandal wood	Kingiodendron pinnatum	Kodapaala	Vateria indica	White Dammar	Hopea parviflora	Thambakam	Hopea ponga	Kambakam	Mesua ferrea	Indian Rose Chestnut	Semecarpus auriculata	Cari	Humboldtia decurrens	Kunthani	Buchanania lanceolate	Mala Mavu
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19.	Loss of native species and genetic diversity		As a responsible corporate large number of saplings of native fruit species like Jamun, Mosambi, Mangoes, Custard Apple, Pomegranete, Amla, Chikoo, Gova, Neem, Kadamba, Jack fruits and shrubs like Ixoro, Jasmine, Kanakambaram etc are planted inside campus so as to conserve the biodiversity. Samanea saman and																															
20.	Likely displacement of fauna	Not Applicable.																																
21.	Any introduction of alien/ invasive species	Nil.																																

SOCIAL ASPECTS

22.	Proximity to nearest habitation	Campus is located within Trivandrum Corporation limits surrounded by UST, NH Bypass and Residential houses.
23.	CSR Activities	<ul style="list-style-type: none"> • Regular weekend classes and Talent day activities for school kids from schools like Government School for the Visually Impaired, Government Model Girls Higher Secondary School, Prathibha Roshini & Govt. Higher secondary school. • Football kits were donated to schools in association with GOFCTeam • Sanjeevani donated Note Book for students from Economically backward families at Govt schools. • Christmas and New year celebrations was organized by Sanjeevani for the beneficiaries of Vijnana program • Workshops on craft making was organized for students thus enabling them to improve their extra-curricular activities. • Sanjeevani organized a campus visit for the beneficiaries of Vijnana program and the kids were able to take part in "Hour of Code" at Infosys campus. • News Paper Drive (Aagaaz) - Newspaper collected through employees were donated to SCT College of Engineering for recycling and converting it as notebooks. • Seminar on CSR was organized as part of Aagaaz for students from John Cox Memorial Institute of Technology. • Social visit was organized in view of world orphan's day along with college students from LBS ITW and John Cox Engineering College. • A study tour was organized for students from Government Model Girls Higher Secondary School, Pattom, Thiruvananthapuram • Science exhibition organized by students from LBS College of Engineering and Technology. • Cloth Donation - Clothes & toys collected through the donation drive in office were distributed to beneficiaries at Balikamandiram • Donation Drive - Essentials were supplied to organization during lockdown season • Make a wish drive- Gifts handed over to beneficiaries according to the wish list received from organization • Toy Donation - Toy donation was organized on account of Children's Day • Blood Donation Camp - Sanjeevani, in association with Sree Chitra Tirunal (SCT) Institute for Medical Sciences and Technology, Thiruvananthapuram organized a blood donation camp in the DC. 40 blood units were collected through this drive. • Cleanliness Drive - A cleanliness drive was organized for couple of wards and Skywalk in the Govt. Medical College, Trivandrum & Sanjeevani volunteers conducted a cleanliness drive for the benefit of students who attend weekend Vijnana sessions • Samyam - Healthcare Track - The focus of the campaign was to educate the students on the health hazards associated with the use of drugs and the importance of leading a healthy and safe lifestyle. • Enablement Workshop - An enablement workshop was conducted by L&D for monthly connect with employees

		<ul style="list-style-type: none"> • Several scholarships were provided to students as part of academic development goal. Along with the scholarships notebooks was also distributed to identified students. • Design thinking workshop was conducted by the campus CSR wing for employees on enhancement of voluntary blood donation. 				
24.	Environment Management plan/ Eco restoration plan (brief details)	<p>As part of Environment management the following measures have been taken:</p> <ul style="list-style-type: none"> • Creation of Mist chamber, enabling propagation of plants in-house. • As a responsible corporate, the following steps are taken in Plastic Waste management. <ul style="list-style-type: none"> ✓ Replacement of plastic garbage bag with bio-degradable bags & gunny bags. ✓ PET drinking water bottles replaced with Glass bottles & steel water bottles. ✓ Elimination of plastic cups, stirrers, spoons and plates at Food court. ✓ Replacement of Single use plastic pens with Paper pens. ✓ Replacement of PVC flux banners with Cloth banners. ✓ Milk packets taken back by vendors at Food court. ✓ Proper segregation of plastic wastes done at source. • Floriculture week celebrated at Campus. The efforts also got published in Newspaper. • Rain water harvesting week was celebrated at Campus. <ul style="list-style-type: none"> ✓ Rain water harvesting & water safety promotion desks/kiosks was put up by invited external members. ✓ Game stalls was put up during the week. ✓ An expert talk was organized on understanding the ways to harvest water at home. ✓ A pencil drawing competition was organized with the theme "Rain water harvesting". ✓ Awareness mailers was sent across to employees on the same. • New innovative mailers were sent across to employees making them understand the importance of Power Saving. • The sludge generated at STP treated at Green house structure thereby getting manure. • Food waste generated is fed to Biogas plant wherein the generated biogas is used for cooking purpose. • Open drains are also crated along the rear periphery wall towards collecting the run-off water from the neighborhood. • Sprout, the organic vegetable farming initiative is being adopted in approx. 20 cents of land. It's an employee driven initiative where employees actively participate, learn and work on the field to grow vegetables. The main motive is to encourage the employees to take up organic farming at their homes. • Organic Vegetable stall inside campus as part of Employee faming initiative "Sprout". 				
25.	Biomedical waste management	<p>Bio-medical waste generated within the campus is disposed through IMAGE. Color coded bins are placed inside Med center with markings for proper segregation at source, also barcode system has been implemented for tracking end disposal. All Biomedical waste handlers has been immunized with Hepatitis B and Tetanus Vaccination.</p> <p>Details on the disposal is been submitted to KSPCB through Form IV annually.</p> <table border="1"> <thead> <tr> <th>Bio Medical Waste</th> <th>Avg (Oct '19 to Mar '20)</th> </tr> </thead> <tbody> <tr> <td colspan="2" style="text-align: center;">92.93 kg/month.</td> </tr> </tbody> </table>	Bio Medical Waste	Avg (Oct '19 to Mar '20)	92.93 kg/month.	
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26.	E-waste management	E-wastes generated are collected, stored and disposed through CPCB & KSPCB authorized vendors. Details on the disposal is been submitted to SPCB through Form III annually.
27.	Litigation, if any, against the project	No.

SPECIFIC CONDITIONS: -

Sl. No.	Conditions	
1.	The Emergency parking facility proposed should be ear marked.	Yes, it is ear marked. In every floor of Multi level parking lot (MLPL) a designated emergency parking space is identified and 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.	Drinking water facilities are provided at construction site. Sanitary facilities are also provided and are connected to the STP. Labors are provided with labor camp facility with dedicated room, cooking area, drinking water facility and toilets.
3.	Disposal of muck during construction phase should 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.	The muck will be used for refilling the low-lying areas in the Technopark Premises.
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.	Construction spoils and hazardous materials generated are stored in a safe and secured manner. The placement is on concrete base thereby eliminating any chance of contamination to the water courses.
5.	Any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approvals of Kerala State Pollution Control Board.	Yes, disposed off as per applicable KSPCB rules and norms received.
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.	DG's are used as backup power generation in case of Grid power failure. DG's are located in secluded areas with proper acoustic facility and with appropriate stacks with stipulated height which acts as Air pollution control measures.
7.	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	Yes, pre-mixed concrete is used.
8.	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfil requirement.	Yes, Energy Conservation Building Code is followed.

GENERAL CONDITIONS: -

Sl. No.	Conditions	
(i)	Rain water Harvesting capacity should be installed as per the prevailing provisions of KMBR/ KPMR, unless otherwise specified elsewhere.	2 ponds have been created with a total capacity of 36118cum inside the campus with proper side pitching and desilting towards collecting rain water. Open drains are also created along the rear periphery wall towards collecting the run-off water from the neighborhood.
(ii)	Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.	Yes, formed and 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.	Avenue trees like Mimusops elengi, Ficus benjamina and Ficus panda are planted in the service roads outside campus for public environmental welfare. Trees like Neem, Kadambu, Ezhilampala, Lakshmitharu, Jack fruit, Fig, Coconut, Water apple are the avenue trees cum fruit trees and trees such as samanea saman, spathodia, Mimusops elengi are also planted inside campus which is preserved and nurtured well. Shade trees has been provided along the NH service road. The NH has been planted with flowering plant in the concern with NHAI.
(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.	Grid connected Solar panels of 826kwp has been installed which caters to 15% of total campus power consumption. Solar power generated on weekends and public holidays are exported to Technopark.
(v)	Safety measures should be implemented as per the Fire and Safety Regulations.	Yes, safety measures are implemented as directed by Department of Fire & Rescue services. No Objection certificate from FRS is available for all the buildings. Annual Renewal of the certificate is carried out by FRS after necessary site inspections. All buildings are equipped with Sprinkler systems, hose reels, wet risers, smoke & fire alarm system. External fire hydrants provided around the buildings across the campus. Exclusive fire tanks maintained atop all the high rise buildings in addition to the fire tanks available in our Underground reservoirs. Fire extinguishers are provided as per IS 2190 standard and fire buckets are provided at prominent places.
(vi)	STP should be installed and made functional as per KSPCB guidelines including that for solid waste management	Yes, it's installed. Sewage generated in the campus is treated in the Sewage Treatment Plant (STP) of capacity 500KLD. The STP is based on Membrane Bio Reactor (MBR) technology. Recycled water from Sewage treatment plant will be utilized for landscaping, flushing and cooling tower purpose. Treated water quality confirms to KSPCB required standard. Proper facilities are provided inside campus for solid waste management. The food waste generated is fed in to 350kg capacity digester biogas plant wherein the biogas generated is used for cooking purpose. The dry waste generated is disposed through authorized dealer. Adequate number of collection bins are provided for bio-degradable waste. Have also ensured that the solid waste generated is segregated at source.

(vii)	The conditions specified in the Companies Act, 2013 should be observed for Corporate Social Responsibility.	Yes, Complied.
(viii)	The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for the project.	Yes, saplings comprising of native fruit species and shrubs has been planted inside campus, so as to conserve the biodiversity.
(ix)	Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating activity.	Yes, obtained.
(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.	Yes, obtained. Possessing valid license from Petroleum and Explosives Safety Organization (PESO) for storage of HSD valid till 31 st Dec 2020.
(xi)	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Authority.	No change in the Scope of the proposed project.
(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.	Yes, agreed.
(xiii)	The stipulations by Statutory Authorities under different Acts and Notification 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.	Yes, complied.
(xiv)	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). It shall simultaneously be sent to the respective Regional Office of MoEF, Govt.of the India and also to the Directorate of Environment and Climate Change, Govt. of Kerala.	Half yearly report submitted to Regional Office of MoEF and to Directorate of Environment and Climate change, Govt of Kerala.
(xv)	<u>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.</u>	Yes, the details of EC are prominently displayed.