COMPLIANCE REPORT

APRIL 2021 – SEPTEMBER 2021

M/S. The South Indian Bank Ltd
Ernakulam, Kerala.

SOUTH INDIAN Bank

FACILITY MANAGEMENT GROUP
2nd Floor, SIB Building, Infopark Expressway
Rajagiri Valley, Kakkanad, Ernakulam, Kerala – 682039

SIB/FMG-EKM-ABII/12/2022-23 30-09-2022

To

The Additional Principal Chief Conservator of Forests (C)
Ministry of Environment, Forests & Climate Change,
4th Floor, E& F Wing, Kendriya Sadan,
Koramangala, Bangalore - 560034

Ref :- F.No.21-52/2018-IA-III Dt. 18-01-2019
Sub :- Environment Clearance – Re-Survey Nos. 561pt, 562/1pt, 563/5pt at Kakkanad Village, Thrikkakara Municipality, Kanayannur Taluk, Ernakulam District, Kerala..– Compliance Report – Fourth half (April 2021 to September 2021) - Reg.

Respected Sir,

The construction project was accorded Environmental Clearance for 28,146.53 sq. m of build up area on 18-01-2019, vide letter F.No.21-52/2018-IA-III by MoEF&CC. As per the condition stipulated in EC order, the six monthly compliance report of Fourth half (April 2021 – September 2021) to the specific conditions, additional conditions and general condition of the Environment Clearance is enclosed.

Thanking you,
Yours respectfully,

For M/s The South Indian Bank Ltd.

FOR THE SOUTH INDIAN BANK LTD.
Joint General Manager
Banking Operations Group

(Project Head-Administration & Block-II)

Copy to:

1. Zonal Officer , CPCB, Bangalore
2. Chairman, State Pollution Control Board , Kerala

Encl: - As Above

The South Indian Bank Ltd. Regd. Office: Thrissur, Kerala CIN: L65191KL1929PLC001017
Head Office: SIB House, T.B.Road, Mission Quarters, Thrissur – 680 001, Kerala, Tel No.: + 91 487 2420020, Fax No: + 91 487 2442021Email: sibcorporate@sib.co.in, Web: www.southindianbank.com

COMPLIANCE REPORT

TO

THE CONDITIONS

OF

ENVIRONMENT CLEARANCE ORDER

(F.No.21- 52/2018 – IA - III)

FOR THE PERIOD OF

April 2021 – September 2021

PREPARED FOR

M/s The South Indian bank Ltd.
Kakkanad, Cochin
Kerala- 682021

INDEX

LIST OF ANNEXURES

TABLES

PLATE

INTRODUCTION

M/s The south Indian bank Ltd is situated at Re-Survey Nos. 561pt, 562/1pt, 563/5pt at Kakkanad Village, Thrikkakara Municipality, Kanayannur Taluk, Ernakulam District, Kerala. The construction project was accorded Environmental Clearance for **28,146.53 sq.mtr** of build up area on 18-01-2019 vide order No. **F.No.21-52/2018-IA-III** by Ministry of Environment, Forest and Climate Change (MoEF&CC), GoI.

The Half Yearly Compliance Report needs to be submitted as part of general condition No.11 of Environmental Clearance order by the project proponent. The compliance report to conditions of the Environmental Clearance for the period of **April 2021 – September 2021** (First half) is being submitted.

COMPLIANCE REPORT
SPECIFIC CONDITIONS

SPECIFIC CONDITION

01	**The project proponent shall obtain all necessary clearance/permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.**	**Complied**

The project proponent has obtained clearance/permission from all relevant agencies including town planning authority before commencement of work. Brief lists of clearance / permission from various department/ competent authorities are mentioned below and the copy of the same is attached as **Annexure No.1 to 5.** All construction is being done in accordance with the local building byelaws and guidelines. The construction of the building is under progress.

Table No. 1 Details of approvals

SL. No	Approvals/Clearances	Approvals	Annexure No
1	Building Permit	Municipal Corporation	01
2	Consent to Establish	Kerala State Pollution Control Board	02
3	NOC	Fire and Rescue Services Dept., Govt. of Kerala	03
4	NOC - height clearance	Airport Authority of India	04
5	Environmental Clearance	MoEF&CC	05

02	**Consent to Establish/ Operate for the project shall be obtain 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.**	**Complied**

The project proponent has obtained consent to establish before the construction of the building was commenced. The consent was issued to the project by 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. The copy of consent is attached as **Annexure No. 2.**

03	**The approval of the competent authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc. as per National Building Code including protection measures from lightening etc.**	**Complied**

The instant construction project is designed with adequate stability against earthquakes, lightening ect. The project proponent is having certificate of structural stability from structural engineer; the structural stability certificate is attached as **Annexure No. 6.** All safety measures for enhancing safety of building is being provided including protection measures from lightening as per National Building Code.

04	**The project proponent shall obtain NBWL clearance before commencement of project.**	**Noted**

To obtain NBWL clearance from MoEF & CC, the project proponent has applied through *Parivesh* portal as online. The Wild Life Report of proposed project had given to MoEF during its appraisal stage. The officers form Wildlife department inspected the site and the file is in process of State Wild Life Board.

Topography and natural Drainage

05	**The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site on wetland and water bodies. Check dams, bio- swales, landscape and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.**	**Noted**

In the project site, no work has conducted to obstruct the natural drainage. The project proponent has constructed the drainage for storm water management after conduct contour survey and analysing the same. The design of construction and drainage is planned on the basis of contour lines. The natural topography of the land is maintained as much as possible. The natural drain system has been maintaining for ensuring unrestricted flow of water. The project proponent excavated minimum amount of earth for cutting purposes. Wet land and water bodies are not included in the proposed land.

Water requirement, conservation, rain water harvesting and ground water recharge

06	**As proposed, fresh water requirement from stored Rain water and wells shall not exceed 56 KLD**	Noted

As per the condition in EC, the fresh water requirement from Rain water and wells will not exceed 56 KLD. At present water is bringing from outside the project site. This will maintain during its operational phase of the project.

07	**Status supply of water by concerned authority, specifying the total annual water availability with them, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available ensuring that there is no impact on other users.**	Noted

The construction of building is under process. At present the project proponent did not get water connection from Kerala Water Authority. The project proponent will submit the data regarding annual water availability, supply of water by KWA, quantity of already committed and allotted along with compliance report when the project proponent get water connection from KWA.

08	**The quantity of fresh water usage, water recycling and rain water harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.**	Noted

The project proponent will install water meter to quantify the water usage and rain water harvesting during its operational phase. At present the proposed project is under construction stage. The drawl of ground water will be minimum to reduce the ground water impact. The records of rain water harvesting, extraction of ground water, other sources of water, usages of water and recycling of water will be keep in the project to monitor the water balance maintains in the project site.

09	**At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. Would be considered as pervious surface.**	Complied

The project proponent has provided more than 20% of open space (39.10%) in the proposed project. The construction in accordance with approved plan in under progress.

10	**Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. Shall be done.**	Noted

As part of water conservation, the project proponent has installed dual pipe plumbing for supplying 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.

11	**Use of water saving devices/ fixtures (viz low flushing systems, use of low flow faucets tap aerators etc. for water conservation shall be incorporated in the building plan.**	Noted

In the instant project, water saving devices/ fixtures viz low flushing systems, use of low flow faucets tap aerators etc. for water conservation has been incorporated in the building

plan. The details have been given to the engineers for plumbing. All possible measures to reduce the consumption of water will be deployed in the building.

12	**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.**	Noted

In the building plan, the dual plumbing system has been incorporated. The project proponent installed the same in the building for the separation of grey and black water.

13	**Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.**	complied

As part of conservation of water, water demand during construction is being reduced by use of pre-mixed concrete, curing agents, usage of Admixtures in concrete and other best practices.

14	**The local bye-law provisions on rain water harvesting should be followed. If local by-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of urban Development Model building byelaws,2016. Adequate no. of rain water harvesting tanks shall be provided for harvesting after filtration.**	Noted

The construction of rain water harvesting facility is a mandatory provision in Kerala Municipal Building Rules for the construction of buildings. The construction of building is under progress. To harvest rain water, The local bye-law provisions on rain water harvesting is being followed. Adequate no. of rain water harvesting tanks with cumulative capacity of 110 KL will be provided for harvesting.

15	**Any ground water dewatering should be properly managed and shall conform to the approval shall be taken from the**	Noted

	CGWA for any ground water abstraction or dewatering.	

At present the project proponent did not construct any type of structure in the project site for drawl of ground water. Since the project area is not notified as critical area by CGWA, the approval for ground water dewatering is not needed. However the project proponent will consult with ground water department for ground water drawl.

Solid Waste Management

16	**The provisions of the Solid Waste (Mangement) Rules,2016, e-Wastes (Mangement) Rules, 2016, and the Plastic Waste (management) Rules, 2016 shall be followed.**	Complied

The project proponent is collecting all type of waste as per Rules issued by the central Govt. To manage and handle all type of waste generated from the proposed project site, the provisions of the Solid Waste (Management) Rules, 2016, e-Wastes (Management) Rules, 2016, and the Plastic Waste (Management) Rules, 2016 is being followed. This will be followed in the operational phase of the project.

17	**Disposal of muck during construction phase shall not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.**	Complied

The project proponent has taken care in the disposal of muck during construction phase, which does not create any adverse affect on the neighbouring communities. The proponent has taken necessary precautions for general safety and health aspects of people.

18	**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 bio gas**	Noted

	generation plant/bio bin system. 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.	

Adequate area has earmarked for solid waste handling and management which will include area for segregation, composting. The instant construction of building is for banking purposes, the project proponent will follow the Solid waste Management Rules, 2016 and separate wet and dry bins will be placed in needed floors and at the ground level for facilitating segregation of waste. Solid waste will be segregated into wet garbage and inert materials. Wet garbage shall be composted in bio gas generation plant/bio bin system. The project proponent has provided adequate facility in the project site for waste disposal in the construction phase.

19	**Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.**	Noted

All hazardous waste generated during construction phase including used oil and oil filter is being disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board. The proponent has engaged an approved agency to handle and management of hazardous waste. This will be continued during its operational phase.

20	**A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the MSW generated from project shall be obtained.**	Noted

During construction phase, the volume of solid waste is too low. After completion of project, the project proponent is intending to install a unit to convert the bio degradable waste into manure or bio gas plant. Therefor the project proponent will not give any bio degradable

waste to outside the project site for disposal. The non bio degradable waste will be sold to the local vendor for recycling.

Sewage Treatment Plant

21	**Sewage shall be treated in the STP based on MBBR Technology with tertiary treatment i.e Ultra filtration. The treated effluent from STP shall be recycled/-Re-used for flushing, gardening, HVAC Cooling. As proposed, no treated water shall be discharged to Municipal drain.**	Noted

The project proponent will construct and operate the STP in the project site for reusing the used water including sewage. To reuse the used water, sewage will be treated in the STP based on MBBR Technology with tertiary treatment. As proposed, no treated water will be discharged to Municipal drain. The recycled water will be used for flushing gardening and cooling purposes.

22	**No sewage or untreated effluent water would be discharged through storm water drain**	Noted

As part of recycling of used water, the project proponent will install STP for treatment of used water and sewage. Therefore no sewage or untreated effluent water will be discharged through storm water drain

23	**The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.**	Noted

A certificate from an independent expert will be obtained and a report will be prepared after commencing the operation of STP. The certificate and report will be submitted at Ministry

before the project is commissioned for operation. Periodical monitoring of water quality of treated sewage will be conducted. Necessary measures will be made to mitigate the odour problem from STP.

24	**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.**	**Noted**

The project proponent will use the dewatering machine to reduce the quantity of sludge. Sludge from the onsite sewage treatment will 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. Since it is a commercial building project the volume sludge will be lower in comparison with residential project. The sludge will be used as manure in the project site.,

Energy

25	**Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC. 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 envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.**	**Noted**

To reduce energy consumption in the instant building and to comply of BEE guidelines regarding energy, outdoor and common area lighting will be LED. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as

building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. will be incorporated in the building design. Wall, window, and roof u-values will be as per ECBC specifications. The overall design of the building will help to reduce conventional energy.

26	**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.**	**Noted**

As part of energy conservation installation of LED for the lighting the area outside the building is the integral part of the project design. To avoid mercury contamination, used LED will be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority. The project proponent will use all electric items in connection with energy savings.

27	**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.**	**Noted**

To reduce energy from conventional sources, renewable Energy will be installed to meet electricity generation equivalent to 1% of the demand load. Solar energy is proposed in this building.

28	**Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the**	**Noted**

	commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.	

The instant project is not a residential building. To know the volume of power generated through solar panels, separate electric meter will be installed. Solar water heating will be provided to meet 20% of the hot water demand of the commercial building. Since it is commercial building the requirement of hot water will be minimal.

29	**Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction.**	**complied**

The project proponent is using, environment friendly materials in this construction of building such as in bricks, blocks and other construction materials. The quantity of Environment friendly materials will be about more than 20% of the total building construction materials. The fly ash content cements are being used in the construction and ready mixed concrete is using to prevent the loss of minerals and pollution.

30	**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 submitted.**	**Noted**

The project proponent will seek a certificate of adequacy of available power at the KSEB to the project along with the load allowed for the project will be submitted. Kerala State Electricity Board is the one and only agency to supply electricity.

Air Quality and Noise

31	**Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3 meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site. Sand, murram, loose soil, cement, stored on 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.**	**Noted**

To reduce air pollution, the construction site is adequately barricaded, the photograph of the same is attached as **Plate No.1.** Plastic/tarpaulin sheet covers is being provided for vehicles bringing in sand, cement and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site. Sand, loose soil, cement, stored on site is covered adequately so as to prevent dust pollution. Wet jets are provided for grinding and stone cutting. Unpaved surfaces and loose soil will be adequately sprinkled with water to suppress dust. The photograph of the sprinkling of water is attached as **Plate No.2.**

32	**All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of**	**Noted**

	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 area with dust pollution shall be provided with dust mask.	

All construction and demolition debris is being stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. To reduce health risk to the labours, mask is being provided to the labours. All demolition and construction waste is being managed as per the provisions of the Construction and Demolition Waste Rules, 2016.

33	**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.**	**Noted**

The project proponent is using two DG set in construction phase. The diesel used for DG set is low sulphur diesel type and in accordance with the Environmental (Protection) prescribed for air and noise emission standards.

34	**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.**	**Noted**

The DG set will be placed in consultation with SPCB, the stack height will be as per standard of SPCB. Acoustic enclosure will be provided to the DG sets to mitigate the noise pollution. The project proponent has already obtained consent to establish wherein the location of DG set is specified.

35	**For indoor air quality the ventilation provisions as per National Building Code of India.**	**Noted**

The Ventilation provision of proposed building will be as per National Building Code of India. The quality of indoor air quality will be monitored in regular basis.

36	**Ambient noise levels shall conform to commercial Standard both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.**	**Noted**

There is no work at night time in the project site. The Ambient noise levels were conformed to commercial Standard both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality is being closely monitored with the help of an NABL accredited laboratory during construction phase.

Green Cover

37	**No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the Tree Authority constituted as per the Kerala Preservation of Trees Act, 1986 (Act 35 of 1986). Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).**	**Noted**

There were no trees in the project site to cur for the construction of instant building. However as part of development of green cover in the project site, tree saplings will be

planted as per landscape plan. These plants will be planted during its final stage of construction.

38	**A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Adequate area shall be provided for green area development.**	**Noted**

To enhance green cover around the project site a minimum of 1 tree for every 80 sqm of land will be planted and maintained. Native species will be included in landscape plan. The details of saplings which is going to be planted in the project site will be shared through compliance report once it is finalised.

Top Soil Prevention and Reuse

39	**Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.**	**Noted**

The topsoil was stripped to a depth of 20 cm where the building is located. The topsoil generated during was stacked at a designated place in the project site. This is being used for gardening and horticulture.

Transport

40	**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.** **• 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 regulation**	**Noted**

The project is situated near the Infopark campus at Kochi therefore the project proponent could provide sufficient parking spaces for four wheelers and two wheelers. To reduce traffic internal roads will have sufficient width. The proponent has provided separate entry and exit which can reduce congestion of traffic movement. The proponent has already prepared a traffic plan and submitted, this will be implemented in the project site.

41	**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.**	**Noted**

The proposed project is situated near infopark, therefore the govt. has already developed service roads for hazel free vehicular movements. The development of road and other facility for mobility is under progress in the 10 Km vicinity of the project site.

42	**Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during nonpeak hours.**	**Noted**

To reduce pollutions, the project proponent ensures that all vehicles hired for bringing construction material to the site is in good condition and have a pollution check certificate and conform to applicable air and noise emission standards. The transportation of materials is only during nonpeak hours.

Environment Management Plan

43	**An environmental management plan (EMP) as prepared and submitted along with the Form-1/1A shall be implemented to ensure compliance with the environmental conditions specified above. A dedicated Environment 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 environment monitoring and those related to the environment infrastructure.**	**Noted**

During the time of appraisal of the project, as part of obtaining environmental Clearance an Environmental Management Plan was prepared and submitted at MoEF&CC / EAC. To implement conditions in EC and mitigation measures specified in EMP, an Environment

Monitoring Cell (EMC) was constituted. The Members of EMC is mentioned in the table below, the meeting of the EMC convenes regularly.

Table No2 Member of EMC

Sl. No	Name	Designation
01	Aswin R Manager TBD (SIB)	Head of the cell
02	Libin Asst Manager TBD(SIB),	member
03	Sindhu S Project manager (Silpa Construction	member
04	Dion Kurian Philip (PMC)	member

Others

44	**Provisions shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.**	**Noted**

The project proponent has provided necessary infrastructure and facilities for labours before commencing construction activity. As part of this the labours were provided safe drinking water, hygienic toilets, health care facility. The housing facilities of labours are temporary arrangement which can be removed after completion of work.

45	**A First Aid Room shall be provided in the project both during construction and operations of the project.**	**Complied**

To provide first aid to the labours during construction phase, the First Aid facilities have setup as per the guidelines mentioned in BOCW (Building and other construction Workers Act). The project proponent has been keeping first aid box in first aid room. In operational phase there will be facilities for first aid. Mr.Rahul Ayyappan is the safety officer at present in the project site. A brief detail of First Aid Facility kept in the project site during construction phase is mentioned below.

1. **Betadine gargle mint**

2. **Refresh eye drop**
3. **Spray – voline**
4. **Digital thermometer**
5. **Cotton and Bandage etc.,**

46	**The company shall draw up and implement corporate social Responsibility plan as per the Company's Act of 2013.**	**Noted**

As part of CSR, the project proponent has executed many activities in tune with the CSR of the companies Act 2013.

47	**As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1st May 2018, and proposed by the project proponent, an amount of Rs. 87.45 Lakhs (@1.0% of project Cost) shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as conservation of nature, infrastructure development, help to helpless, livelihood development and energy conservation etc. 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.**	**Noted**

As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1st May 2018, the project proponent was agreed to spend an amount of Rs. 87.45 Lakhs 1.0% of project cost under the head of CER. The project proponent has already spent more than what committed. The details of the activities executed under CER are provided below in the table. The project proponent is continuing its Environmental activities under Corporate Social Responsibility.

Table No.3 – Details of CER

S.No	Sectors	Activities	Amount Spent (in Rs.)
1	Conservation of nature	1. Cleaning of Chitrapuzha river 2. Fresh Vegetable Cultivation and Maintenance 3. Growth of 1000 plants 4. Well Recharge	54,30,000/-
2	Infrastructure Development	1. To improve the skills of Jail Inmates by means of purchase of Computer, Projector, Furniture etc. 2. Improving the facilities of Anganwadies 3. Providing Bus shelters for Chithettukara waiting sheds 4. Maintenance and Beautification of VHS School, Irumpanam	14,97,500/-
3	Help to hapless	Food Provision, Coaching Camps, Construction and Maintenance of houses, treatment support and Relief Fund to physically challenged and economically backward family	11,30,000/-
4	Livelihood development	Vocational Training for inmates in District Jail and to economically backward families	6,00,000/-
5	Energy Conservation	Solar street lights	2,00,000/-
	Total		**88,57,500/**

COMPLIANCE REPORT

GENERAL CONDITIONS

GENERAL CONDITIONS

01	**A copy of the 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.**	**Complied**

Compliance:

The project proponent has given copy of Environmental clearance to State Pollution control Board.

02	**The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.**	**Noted**

The project proponent is keeping a separate account for funds earmarked for environmental protection measures and did diverted for other purpose. As part of environmental protection measures, the project proponent is constructing RWH structure, STP, greenbelt etc. The cost of the environmental protection measures will be reported.

03	**Officials from the concerned Regional Office of MoEF&CC 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 concerned APCCF, Regional Office of MoEF&CC.**	**Noted**

The project will extend all support including sharing of documents and data in connection with the construction project to the officials from the regional of MoEF&CC for their monitoring on environmental safeguards implemented in the project site.

04	**In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.**	**Noted**

At present there is no plan to change the scope of project. The proponent will apply for fresh appraisal to get the Environmental Clearance, in case of any change(s) in the scope of the project.

05	**The Ministry 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 Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.**	**Noted**

To improve safety of building, community and environment, the project proponent is willing to adhere the additional safe guard measures subsequently if the authority found necessary.

06	**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.**	**Complied**

The project proponent obtained approvals from various Government departments and statutory authorities. To enhance safety and promote environment sustainability, all the conditions stipulated in the approvals are follows. The important approvals are mentioned below**.**

Building Permit - Municipal Corporation

Consent to Establish - Kerala State Pollution Control Board

NOC - Fire and Rescue Services Dept., Govt. of Kerala

NOC - height clearance - Airport Authority of India

Environmental Clearance – MoEF&CC

07	**These stipulations would be enforced among others under the provisions of the 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.**	**Noted**

08	**Any 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.**	**Noted**

There were no appeal filed against the EC at NGT within a period of 30 days.

09	**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 Environmental Clearance and copies of clearance letters are available with the 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 concerned Regional Office of this Ministry.**	**Complied**

As per the condition in Environmental Clearance issued by Ministry of Environment Forest and climate change an advertisement in two local daily newspapers (English and Malayalam) regarding Environmental Clearance accorded to the construction project was given within the stipulated period. The copies of notice on News paper is attached as **Annexure No. 7.**

10	**A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad/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.**	**Complied**

A copy of the Environment Clearance letter was submitted to the Local self Government. The project proponent did not receive any suggestions / representation from anywhere while processing the application therefore did not give copy of clearance latter to any NGO or personal.

11	**The proponent shall 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 Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM 2.5, PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral 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.**	**Complied**

The project proponent uploaded the compliance report in the website. The report is being sent to regional office and SPCB. Critical sect oral parameters are being displayed at a convenient location near the main gate of the company. The results of Monitored data is attached as **Annexure No. 8**, **9 & 10.**

12	**The environmental statement for each financial year ending 31st 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**	**Complied**

	company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF&CC by email.	

The project proponent has prepared and submitted form V to the State Pollution Control Board.

ANNEXURE

Annexure No.1

Thrikkakara Municipality
Ernakulam

Kerala Municipal Building Rules
APPENDIX C
[See Rule 11(3)]
GENERAL BUILDING PERMIT

No. : TP1-BA(280471)/2018 Date: 19/11/2018
Ref Application No. : TP1/24247/2017 (969)

from Sri/Smt : THE SOUTH INDIAN BANK LTD.
9/0/, THE SOUTH INDIAN BANK LIMITED, NEW INFOPARK ROAD, RAJAGIRI VALLEY, KAKKANAD., KAKKANAD, Rajagiri Valley .P.O, Ernakulam, Kerala-682039, India

Permission is granted for the:**Extension**

Ward No. :	9
Survey No.[S-Survey & R-Resurvey] :	S-561Part,562/1Part,563/29Part R-561Part,562/1 Part,563/5 Part.
Extent in Are :	143.00
Village :	Kakkanad
Nearest buildingNo. :	9/839A1-A9
Taluk :	Kanayannur
District :	Ernakulam

Subject to the conditions stated below :**Existing Building Office/Business(15.2 Sqm), Extension Office/Business(18479.5 Sqm), Existing Building Office/Business(8478.21 Sqm), Extension Office/Business(549.46 Sqm), Existing Building Office/Business(624.16 Sqm)**

2 Extension, Total building Area 28146.5 in Sqmeter and Extended area 19029 sqm. 19028.96 Sqm. [Permit is Valid Upto Three Years-(02/12/2021)]

Permit Fee in Rs : 190290 **Receipt No.& Date : 118020400100 - 03/12/2018**

Signature :
Name & Designation : P.S. SHIBU
MUNICIPAL SECRETARY
Seal

Place : Thrikkakara
Date : 03/12/2018

Note:

(1) The development permit or building permit, unless otherwise provided under these rules, shall be valid for three years from the date of issue and may be renewed twice each for three years.

(2) The application for renewal shall be submitted to the Secretary in white paper, typed or written in ink, fixed with necessary court fee stamp and accompanied by copy of permit and approved plan.

(3) The fee for renewal of permit shall be fifty percent of prevailing permit fee.

(4) The permit issued under the Kerala Building Rules,1999 and remaining value at the commencement of these rules shall be deemed to have been issued under these rules and may be renewed for like period and on like terms, as a permit issued under these rules.

(5) Adequate safety measures shall be ensured for protection against damage to health, life , building and property of the workers and inhabitants around , during and after building construction the owner and the developer shall be solely responsible for any such damages.

E-File no: 409589

Building Permit

Annexure No.2

FILE NO. :O14ERR124639
Date of issue :08/02/2019

KERALA STATE POLLUTION CONTROL BOARD

CONSENT TO ESTABLISH

ISSUED UNDER

Section 25 of Water (Prevention & Control of Pollution) Act, 1974
Section 21 of the Air (Prevention & Control of Pollution) Act, 1981

and

Environment (Protection) Act, 1986

As per Application No. :9337012
Dated:17-11-2018

TO

M/s OFFICE CUM MERCANTILE BUILDING FOR SOUTH INDIAN BANK
New Infopark Road,
Rajagiri Valley,
Kakkanad
Ernakulam - 682039.

Consent No. :PCB/HO/EKM-1/ICE-EXP/ 02 /2019.

Valid Upto :31/10/2023

Page1

1. GENERAL

1.1. This integrated consent is granted subject to the power of the Board to withdraw consent, review and make variation in or revoke all or any of the conditions as the Board deems fit.

1	**VALIDITY**	31/10/2023
2	Name and Address of the establishment	OFFICE CUM MERCANTILE BUILDING FOR SOUTH INDIAN BANK NEW INFOPARK ROAD, RAJAGIRI VALLEY, KAKKANAD. 682039
3	Communication	Telephone :0484-2420020 Fax :0484-2771300 E-mail:ho2022@sib.co.in
4	Occupier Details	Aravind Kamboj, CSO South Indian Bank, Mission Quarters, Head Office Mansion, Thrissure. 680001
5	Local Body	Thrikkakkara Municipality
6	Survey Number	561,562/1,563/5.
7	Village	Kakkanad
8	Taluk	KANAYANNUR
9	District	Ernakulam i
10	Capital Investment(Rs in Lakhs)	3172.42 Rs in Lakhs
11	Scale	Large
12	Category	ORANGE
13	Annual fee(Rs) Total Fee remitted(Rs)	Rs. 1, 28, 000/- Rs. 6, 50, 801/-
14	Activity	• Establishment of additional office building in B+ G+11 + terrace floors with 19028.96 m2 built up area [including service block], for the existing building having built-up area 9031.6m2. • D. G Sets- 750kVA * 2 nos.

2. CONDITIONS AS PER
The Water(Prevention and Control of Pollution)Act, 1974

2.1 Sewage Treatment Plant (STP) consisting of treatment units having adequate capacity shall be made functional/ arrangement for sewage treatment shall be provided, as per the proposal submitted along with the application, before commissioning of the establishment. Additional facilities required, if any, to achieve the standards laid down by the Board u/s 17(1)(g) of the Water Act shall also be made along with.

2.2 Water Consumption : 58 kL/day.

Consent from PCB

Annexure No.3

DEPARTMENT OF FIRE & RESCUE SERVICES
GOVERNMENT OF KERALA

No. F2-10856/2018 **Dated : 01.11.2018.**

FIRE SAFETY CLEARANCE FOR SITE

1.	Name & Address of the Applicant	:	**The South Indian Bank Limited, New Infopark Road, Rajagiri Valley, Kakkanad, Ernakulam-682039.**
2.	Name of the Company	:	-
3.	Occupancy type of Building	:	**Business**
4.	Height of the Building	:	**47.55 mtrs.**
5.	Number of Floors of the Building	:	**13 F (BF+GF+11F)**
6.	Total Plinth Area (in sqm)	:	**19653.12 m^2**
7.	Survey No	:	**561 Part, 562/1 Part, 563/29 Part. Re-Survey No.561 Part, 562/1 Part, 563/5 Part.**
8.	Village	:	**Kakkanad**
9.	Municipality	:	**Thrikkakara**
10.	District	:	**Ernakulam**

The above site was inspected by the competent and authorized Officials of this Department. It was found that the site is suitable, prima facie for the proposed construction as per KMBR.

The Fire Plan drawings were scrutinized and compared with the Checklist (Form No.B6) and Prima Facie found to be in Order. The Applicant shall comply with all the Fire Safety arrangements as contained in the filled up Checklist, copy of which is attached to this clearance letter without any deviation. In case of some deviation to be made, the same shall be intimated to the competent authorities of the Stake holder Departments including this Department and the Applicant shall deposit necessary Fees etc. as per rules to obtain further clearance.

Page 1 of 2

No: F2-10856/18

On completion of construction of the Building, the Applicant shall fill the Checklist Cum Application (Form No.B6) again and also prepare a Fire Plan Drawing and submit following the due procedure. On receiving the Plan & the Checklist Cum Application duly filled, the authorized and competent Officials of this Department will inspect & verify the arrangements made as per the filled up Checklist to consider issuance of Certificate of Approval from this Department.

This clearance is limited to the Fire Safety measures/Arrangements for the proposed Building. The Fire Safety Clearance for the Site is issued for facilitating the construction of the proposed Building.

N.V.JOHN,
DIRECTOR(ADMINISTRATION),
For DIRECTOR GENERAL.

To,

The Secretary, Thrikkakara Municipality (In Original).
(Vide Letter No.969/17-18, dated : 24.09.2018)

Enclosures: 1) Approved Checklist Cum Application form duly signed by the Competent Official.
2) Fire Plan duly affixed with Seal.

Copy to:

1) The Applicant with the above Enclosures
2) The Regional Fire Officer, Ernakulam.
3) The District Fire Officer, Ernakulam.
4) The Station Officer, Thrikkakara.

F4.1/11.

Page 2 of 2

NOC from fire and Rescue

Annexure No. 4

भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

The South Indian Bank Ltd.

The South Indian Bank Ltd., Head Office,
SIB House, T. B. Road, P. B. No. 28,
Thrissur - 680001, Kerala.

Date: 13-08-2018

Valid Upto: 12-08-2026

No Objection Certificate for Height Clearance

1. This NOC is issued by Airports Authority of India (AAI) in pursuance of responsibility conferred by and as per the provisions of Govt. of India (Ministry of Civil Aviation) order GSR751 (E) dated 30th Sep. 2015 for Safe and Regular Aircraft Operations.

2. This office has no objection to the construction of the proposed structure as per the following details:

NOC ID :	**CIAL/SOUTH/B/080718/326102**
Applicant Name*	**Koshy K. Alex**
Site Address*	**Sub Division 1.5, Ward No. 9, Thrikkakkara / Survey No. 561 Part, 562-1 Part, 563/29 Part, Re-survey No. 561 Part, 562-1 Part, 563-5 Part,Kakkanad Village / Kanayannur Taluk / Cochin Town,Cochin,Kerala**
Site Coordinates*	**76 21 23.37-9 59 47.22, 76 21 24.02-9 59 45.99, 76 21 25.05-9 59 46.04, 76 21 25.29-9 59 48.19, 76 21 25.76-9 59 41.83, 76 21 25.89-9 59 39.59**
Site Elevation in mtrs AMSL as submitted by Applicant*	**18 M**
Permissible Top Elevation in mtrs Above Mean Sea Level(AMSL)	**80.55 M**

*As provided by applicant

3. This NOC is subject to the terms and conditions as given below:

a. Permissible Top elevation has been issued on the basis of Site coordinates and Site Elevation submitted by Applicant. AAI neither owns the responsibility nor authenticates the correctness of the site coordinates & site elevation provided by the applicant. If at any stage it is established that the actual data is different, this NOC will stand null and void and action will be taken as per law. The office in-charge of the concerned aerodrome may initiate action under the Aircraft (Demolition of Obstruction caused by Buildings and Trees etc.) Rules, 1994"

b. The Site coordinates as provided by the applicant in the NOC application has been plotted on the street view map and satellite map as shown in ANNEXURE. Applicant/Owner ensure that the plotted coordinates corresponds to his/her site.In case of any discrepancy,Designated Officer shall be requested for cancellation of the NOC

c. The Structure height (including any superstructure) shall be calculated by subtracting the Site elevation in AMSL from the Permissible Top Elevation in AMSL i.e. Maximum Structure Height = Permissible Top Elevation minus (-) Site Elevation.

d. The issue of the 'NOC' is further subject to the provisions of Section 9-A of the Indian Aircraft Act, 1934 and any notifications issued there under from time to time including the Aircraft (Demolition of Obstruction caused by Buildings and Trees etc.) Rules 1994

क्षेत्रीय मुख्यालय दक्षिणी क्षेत्र भा०वि०प्रा० परिचालन कार्यालय परिसर, चेन्नई हवाईअड्डा, चेन्नई - 600 027
दूरभाष संख्या : 44-2256 1234
Regional headquarter Southern Region, AAI Operational Offices Complex, Chennai Airport, Chennai 600 027
Tel. No: 44-2256 1234

भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

e. No radio/TV Antenna, lighting arresters, staircase, Mumtee, Overhead water tank and attachments of fixtures of any kind shall project above the Permissible Top Elevation of 80.55 M, as indicated in para 2.

f. Only use of oil fired or electric fired furnace is permissible, within 8 KM of the Aerodrome Reference Point.

g. The certificate is valid for a period of 8 years from the date of its issue.One time revalidation without assessment may be allowed, provided construction work has commenced,subject to the condition that such request shall be made within the validity period of the NOC and the delay is due to circumstances which are beyond the control of the developer.

h. No light or a combination of lights which by reason of its intensity, configuration or colour may cause confusion with the aeronautical ground lights of the Airport shall be installed at the site at any time, during or after the construction of the building. No activity shall be allowed which may affect the safe operations of flights

i. The applicant will not complain/claim compensation against aircraft noise, vibrations, damages etc. caused by aircraft operations at or in the vicinity of the airport.

j. Day markings & night lighting with secondary power supply shall be provided as per the guidelines specified in chapter 6 and appendix 6 of Civil Aviation Requirement Series B Part I Section 4, available on DGCA India website: www.dgca.nic.in

k. The applicant is responsible to obtain all other statutory clearances from the concerned authorities including the approval of building plans. This NOC for height clearances is to ensure the safe and regular aircraft operations and shall not be used as document for any other purpose/claim whatsoever, including ownership of land etc.

l. This NOC has been issued w.r.t. the Civil Airports. Applicant needs to seek separate NOC from Defence, if the site lies within their jurisdiction.

m. In case of any discrepancy/interpretation of NOC letter, English version shall be valid.

n. In case of any dispute w.r.t site elevation and/or AGL height, top elevation in AMSL shall prevail.

13/08/18

Chairman NOC Committee

Region Name: SOUTH

Address: General Manager Airports Authority of India, Regional Headquarter, Southern Region, Chennai Airport, Chennai-600027 (Tamil Nadu)

Email ID: vomm.noc@aai.aero

Contact No: 044-22560046

	Name / Designation / Sign with Date
Prepared By :	13.08.18
Verified By :	13/8/18

क्षेत्रीय मुख्यालय दक्षिणी क्षेत्र भा॰वि॰प्रा॰ परिचालन कार्यालय परिसर, चेन्नई हवाईअड्डा, चेन्नई - 600 027
दूरभाष संख्या : 44-2256 1234
Regional headquarter Southern Region, AAI Operational Offices Complex, Chennai Airport, Chennai 600 027
Tel. No: 44-2256 1234

Height clearance from Airport Authority

Annexure No. 5

F.No.21-52/2018-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: 18th January, 2019

To,

The DGM & CSO, Premises & Maintenance Department
M/s The South Indian Bank Ltd
S.I.B. House, T.B. Road, Mission Quarters,
Thrissur, Kerala-680001
E Mail: ho2022@sib.co.in

Subject: Proposed expansion of existing administrative bank office building project at Re-survey no. 561pt, 562/1pt, 563/5pt, Kakkanad Village Kanayannur Tehsil, Ernakulam District, Kerala by M/s The South Indian Bank Ltd - Environmental Clearance - reg.

Sir,

This has reference to your online proposal No. IA/KL/NCP/74924/2018 dated 10th May, 2018, submitted to this Ministry for grant of Environmental Clearance (EC) in terms of the provisions of the Environment Impact Assessment (EIA) Notification, 2006 under the Environment (Protection) Act, 1986.

2. The proposal for grant of environmental clearance to the project 'Proposed expansion of existing administrative bank office building project at Re-survey no. 561pt, 562/1pt, 563/5pt Kakkanad village Kanayannur Tehsil, Ernakulam District, Kerala promoted by M/s The South Indian Bank Ltd, was considered by the Expert Appraisal Committee (Infra-2) in its 32nd meeting held on 2-4 July, 2018, 34th meeting held on 24-26 September, 2018 and 36th meeting held on 26-28 November, 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) The project is located at 9°59'45.12"N Latitude and 76°21'24.80"E Longitude.

(ii) The project is expansion of existing administrative office bank building project. The total plot area is 1.43 ha, FSI area is 22,032.28 sqm and total construction (built-up) area of 28,146.53 sqm. The project will comprise of Administrative office building with additional supporting infrastructure facilities within the existing complex shall be developed. Maximum height of the building is 47.55 m.

(iii) During construction phase, total water requirement is expected to be 31 KLD which will be met by stored rain water in tanks for construction and ground water supply for meeting the domestic water requirement. During the construction phase, mobile STP will be provided for disposal of waste water. Temporary sanitary toilets will be provided during peak labor force.

(iv) During operational phase, total domestic water demand of the project is expected to be 105 KLD and the same will be met by fresh water requirement

Proposal No. IA/KL/NCP/74924/2018 Page 1 of 10

of 66 KLD from stored rain water and wells and 39 KLD recycled water. Wastewater generated (43 KLD) will be treated in STP of total 52 KLD capacity. 39 KLD of treated wastewater will be recycled (32 KLD for flushing, 2 KLD for gardening and excess for makeup water req. for cooling towers attached with HVAC system. No treated water will be disposed in to drain.

(v) About 165 kg/day solid waste will be generated in the project. The biodegradable waste (100 kg/day) will be processed in bio-gas generation unit / bio bin system and the non-biodegradable waste generated (65 kg/day) will be handed over to authorized local vendor.

(vi) The total power requirement during operation phase is 1,160 kVA and will be met from Kerala State Electricity Board & DG Sets (standby) and total power requirement during construction phase is 100 kVA and will be met from Kerala State Electricity Board & DG Sets (standby).

(vii) Rooftop rainwater of buildings will be collected in RWH tanks with appropriate capacity for harvesting after filtration.

(viii) Parking facility for 316 Cars + 283 two wheelers is proposed to be provided against the requirement of 136 Cars + 280 Two wheelers respectively (according to local norms).

(ix) Proposed energy saving measures would save about 23% of power.

(x) Mangalavanam Bird Sanctuary is located within 10 km radius.

(xi) There is no court case pending against the project.

(xii) Investment cost of the project is Rs. 87.45 Crores.

(xiii) Employment potential about 1,000 jobs.

(xiv) Benefits of the project: The project would provide better banking facilities to the people. Direct and indirect employment opportunities: The potential for employment and access to new services may draw people to the area around the project. There will be an increase in economic activity and employment for the local community, local skills development. Employment opportunities generation and Revenue to the State.

3. The project/activity is covered under item 8(a) 'Building and Construction Projects' of the Schedule to the EIA Notification, 2006 and its amendments, and requires appraisal at State level. However, due to non-existence of SEIAA/SEAC in Kerala, the proposal is appraised at Central level by sectoral EAC.

4. The proposal was considered by the Expert Appraisal Committee (Infra-2) in its 32nd meeting held on 2-4 July, 2018, 34th meeting held on 24-26 September, 2018 and 36th meeting held on 26-28 November, 2018. The EAC, in its 36th meeting held on 26-28 November, after detailed deliberations on the proposal, has recommended for grant of Environmental Clearance to the project. As per recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the project 'Proposed expansion of existing administrative bank office building project at Re-survey no. 561pt, 562/1pt, 563/5pt, Kakkanad Village Kanayannur Tehsil, Ernakulam District, Kerala promoted by M/s The South Indian Bank Ltd, under the provisions of the EIA

Notification, 2006 and amendments/circulars issued thereon, and subject to the specific and general conditions as under:-

PART A – SPECIFIC CONDITIONS:

(i) The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.

(ii) 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.

(iii) 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.

(iv) The project proponent shall obtain NBWL clearance before commencement of project.

Topography and natural Drainage

(v) The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.

Water requirement, Conservation, rain water Harvesting, and Ground Water Recharge

(vi) As proposed, fresh water requirement from stored Rain water and wells shall not exceed 56 KLD.

(vii) Status supply of water by concerned authority, specifying the total annual water availability with them, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available ensuring that there is no impact on other users.

(viii) The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.

(ix) At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.

(x) Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing,

landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.

(xi) Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.

(xii) 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.

(xiii) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.

(xiv) The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Adequate no. of rain water harvesting tanks shall be provided for harvesting after filtration.

(xv) Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.

Solid Waste Management

(xvi) The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.

(xvii) Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.

(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 Bio gas generation plant/ bio bin system. 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.

(xix) Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.

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

Sewage Treatment Plant

(xxi) Sewage shall be treated in the STP based on MBBR Technology with tertiary treatment i.e. Ultra Filtration. The treated effluent from STP shall be

recycled/re-used for flushing, gardening, HVAC Cooling. As proposed, no treated water shall be discharged to Municipal drain.

(xxii) No sewage or untreated effluent water would be discharged through storm water drains.

(xxiii) The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.

(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.

Energy

(xxv) Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC. 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 envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.

(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.

(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.

(xxviii) Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

(xxix) Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials. Fly ash should be used as building material in the construction as

per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction.

(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 submitted.

Air Quality and Noise

(xxxi) Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3 meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site. Sand, murram, loose soil, cement, stored on 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.

(xxxii) All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules, 2016. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.

(xxxiii) 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.

(xxxiv) 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.

(xxxv) For indoor air quality the ventilation provisions as per National Building Code of India.

(xxxvi) Ambient noise levels shall conform to commercial Standard both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.

Green Cover

(xxxvii) No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the Tree Authority constituted as per the Kerala Preservation of Trees Act, 1986 (Act 35 of 1986). Old trees should be retained based on girth and age regulations as

may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).

(xxxviii) A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Adequate area shall be provided for green area development.

Top Soil preservation and Reuse

(xxxix) Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.

Transport

(xl) 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.

- 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 regulation

(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.

(xlii) Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.

Environment management Plan

(xliii) An environmental management plan (EMP) as prepared and submitted along with the Form-1/1A shall be implemented to ensure compliance with the environmental conditions specified above. A dedicated Environment 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 environment monitoring and those related to the environment infrastructure.

Others

(xliv) Provisions shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

(xlv) A First Aid Room shall be provided in the project both during construction and operations of the project.

(xlvi) The company shall draw up and implement corporate social Responsibility plan as per the Company's Act of 2013.

(xlvii) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1st May 2018, and proposed by the project proponent, an amount of Rs. 87.45 Lakhs (@1.0% of project Cost) shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as conservation of nature, infrastructure development, help to helpless, livelihood development and energy conservation etc. 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.

PART B - GENERAL CONDITIONS

(i) A copy of the 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.

(ii) The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.

(iii) Officials from the concerned Regional Office of MoEF&CC 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 concerned APCCF, Regional Office of MoEF&CC.

(iv) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.

(v) The Ministry 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 Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.

(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.

(vii) These stipulations would be enforced among others under the provisions of the 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.

(viii) Any 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.

(ix) 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 Environmental Clearance and copies of clearance letters are available with the 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 concerned Regional Office of this Ministry.

(x) A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad/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.

(xi) The proponent shall 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 Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM $_{2.5}$, PM_{10}, SO_2, NOx (ambient levels as well as stack emissions) or critical sectoral 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.

(xii) The environmental statement for each financial year ending 31st 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.

5. This issues with the approval of the Competent Authority.

(Kushal Vashist)
Director

Copy to:

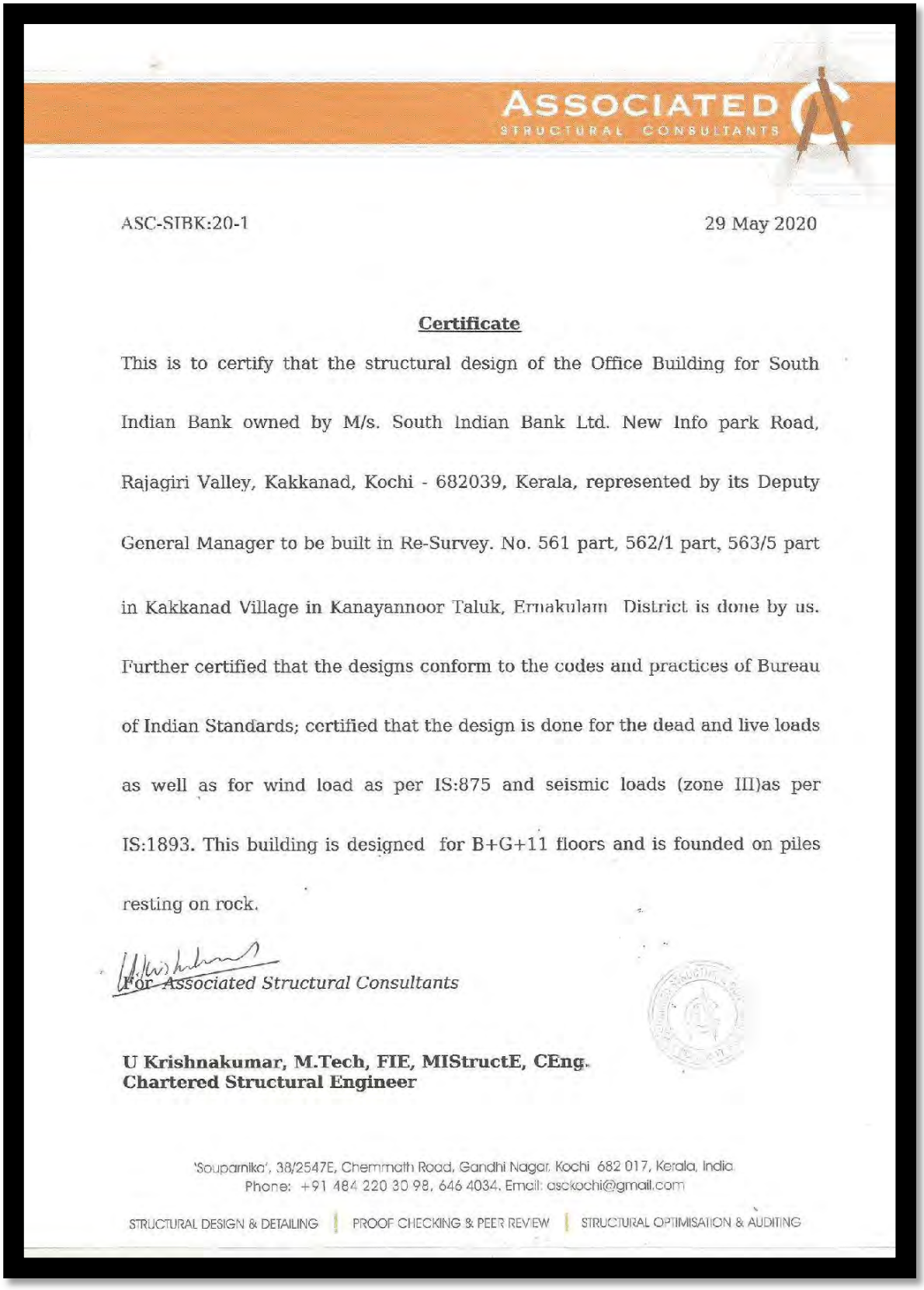
1) The Secretary, Department of Environment, Government of Kerala, Thiruvananthapuram, Kerala.
2) Chief Conservator of Forests and Member Secretary, Kerala CZMA, Science & Technology (A) Department, Sasthra Bhavan, Pattom, Thiruvananthapuram - 4, Kerala.
3) The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
4) The Member Secretary, Kerala State Pollution Control Board, Pattom P.O., Thiruvananthapuram - 695 004, Kerala.
5) The Addl. Principal Chief Conservator of Forests (Central), Ministry of Environment, Forests and Climate Change, Regional Office (SZ), Kendriya Sadan, 4th Floor, E&F Wing, II Block Koramangala, Bengaluru - 560034, Karnataka.
6) Monitoring Cell, MoEF&CC, Indira Paryavaran Bhavan, New Delhi.
7) Guard File/ Record File/ Notice Board.
8) MoEFCC website.

(Kushal Vashist)
Director

Proposal No. IA/KL/NCP/74924/2018 Page 10 of 10

Copy of EC order

Annexure No. 6



ASSOCIATED
STRUCTURAL CONSULTANTS

ASC-SIBK:20-1 29 May 2020

Certificate

This is to certify that the structural design of the Office Building for South Indian Bank owned by M/s. South Indian Bank Ltd. New Info park Road, Rajagiri Valley, Kakkanad, Kochi - 682039, Kerala, represented by its Deputy General Manager to be built in Re-Survey. No. 561 part, 562/1 part, 563/5 part in Kakkanad Village in Kanayannoor Taluk, Ernakulam District is done by us. Further certified that the designs conform to the codes and practices of Bureau of Indian Standards; certified that the design is done for the dead and live loads as well as for wind load as per IS:875 and seismic loads (zone III)as per IS:1893. This building is designed for B+G+11 floors and is founded on piles resting on rock.

For Associated Structural Consultants

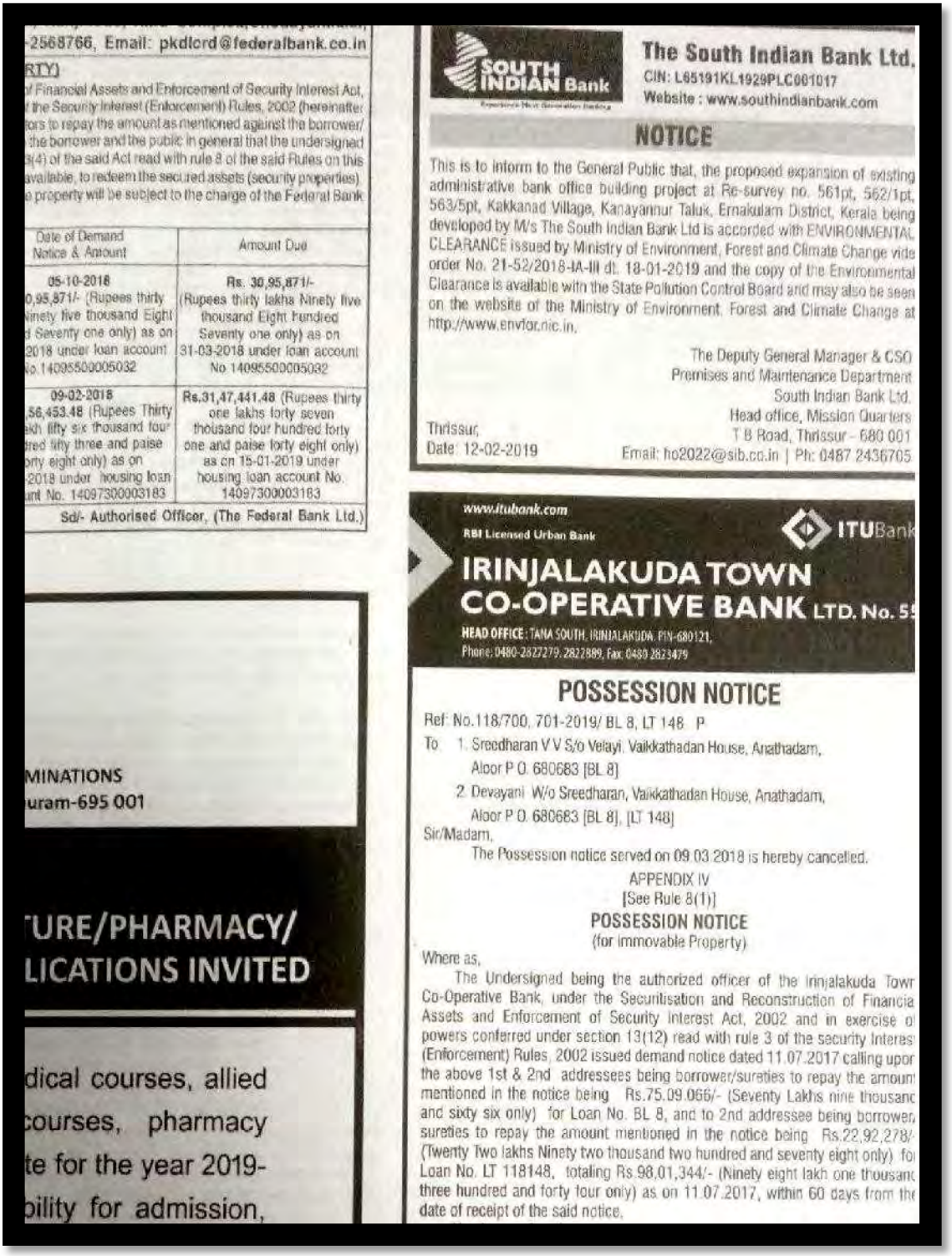
U Krishnakumar, M.Tech, FIE, MIStructE, CEng.
Chartered Structural Engineer

'Souparnika', 38/2547E, Chemmath Road, Gandhi Nagar, Kochi 682 017, Kerala, India.
Phone: +91 484 220 30 98, 646 4034. Email: ascochi@gmail.com

STRUCTURAL DESIGN & DETAILING | PROOF CHECKING & PEER REVIEW | STRUCTURAL OPTIMISATION & AUDITING

Certificate of Structural Stability

Annexure No. 7



-2568766, Email: pkdlord@federalbank.co.in

RTY)

f Financial Assets and Enforcement of Security Interest Act, the Security Interest (Enforcement) Rules, 2002 (hereinafter ors to repay the amount as mentioned against the borrower/ the borrower and the public in general that the undersigned 3(4) of the said Act read with rule 8 of the said Rules on this available, to redeem the secured assets (security properties). property will be subject to the charge of the Federal Bank

Date of Demand Notice & Amount	Amount Due
05-10-2018 0,95,871/- (Rupees thirty Ninety five thousand Eight Seventy one only) as on 2018 under loan account No.14095500005032	Rs. 30,95,871/- (Rupees thirty lakhs Ninety five thousand Eight hundred Seventy one only) as on 31-03-2018 under loan account No 14095500005032
09-02-2018 56,453.48 (Rupees Thirty kh fifty six thousand four red fifty three and paise orty eight only) as on 2018 under housing loan unt No. 14097300003183	Rs.31,47,441.48 (Rupees thirty one lakhs forty seven thousand four hundred forty one and paise forty eight only) as on 15-01-2019 under housing loan account No. 14097300003183

Sd/- Authorised Officer, (The Federal Bank Ltd.)

MINATIONS
uram-695 001

TURE/PHARMACY/
LICATIONS INVITED

dical courses, allied
courses, pharmacy
te for the year 2019-
bility for admission,

SOUTH INDIAN Bank

The South Indian Bank Ltd.
CIN: L65191KL1929PLC001017
Website : www.southindianbank.com

NOTICE

This is to inform to the General Public that, the proposed expansion of existing administrative bank office building project at Re-survey no. 561pt, 562/1pt, 563/5pt, Kakkanad Village, Kanayannur Taluk, Ernakulam District, Kerala being developed by M/s The South Indian Bank Ltd is accorded with ENVIRONMENTAL CLEARANCE issued by Ministry of Environment, Forest and Climate Change vide order No. 21-52/2018-IA-III dt. 18-01-2019 and the copy of the Environmental Clearance is available with the 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 Deputy General Manager & CSO
Premises and Maintenance Department
South Indian Bank Ltd.
Head office, Mission Quarters
T B Road, Thrissur - 680 001
Email: ho2022@sib.co.in | Ph: 0487 2436705

Thrissur,
Date: 12-02-2019

www.itubank.com
RBI Licensed Urban Bank

ITUBank

IRINJALAKUDA TOWN CO-OPERATIVE BANK LTD. No. 55

HEAD OFFICE: TANA SOUTH, IRINJALAKUDA, PIN-680121,
Phone: 0480-2827279, 2822889, Fax: 0480-2823479

POSSESSION NOTICE

Ref: No.118/700, 701-2019/ BL 8, LT 148 P

To 1. Sreedharan V V S/o Velayi, Vaikkathadan House, Anathadam, Aloor P O. 680683 [BL 8]

2. Devayani W/o Sreedharan, Vaikkathadan House, Anathadam, Aloor P O. 680683 [BL 8], [LT 148]

Sir/Madam,

The Possession notice served on 09.03.2018 is hereby cancelled.

APPENDIX IV
[See Rule 8(1)]

POSSESSION NOTICE
(for immovable Property)

Where as,

The Undersigned being the authorized officer of the Irinjalakuda Town Co-Operative Bank, under the Securitisation and Reconstruction of Financia Assets and Enforcement of Security Interest Act, 2002 and in exercise o powers conferred under section 13(12) read with rule 3 of the security Interes (Enforcement) Rules, 2002 issued demand notice dated 11.07.2017 calling upor the above 1st & 2nd addressees being borrower/sureties to repay the amount mentioned in the notice being Rs.75,09,066/- (Seventy Lakhs nine thousanc and sixty six only) for Loan No. BL 8, and to 2nd addressee being borrower, sureties to repay the amount mentioned in the notice being Rs.22,92,278/- (Twenty Two lakhs Ninety two thousand two hundred and seventy eight only) fo Loan No. LT 118148, totaling Rs.98,01,344/- (Ninety eight lakh one thousanc three hundred and forty four only) as on 11.07.2017, within 60 days from the date of receipt of the said notice.

ആസ്ഥാനത്തേക്ക് പ്രത

ഡെൻ ലോക്കൽ കേബിൾ ഓപ്പറേറ്റേഴ്സ് സംയുക്ത സമര സമിതിയു
ഡെൻ ഓഫീസിലേക്ക് നടത്തിയ പ്രതിഷേധ മാർച്ച്

കൊച്ചി ▸ കോടതി ഉത്തരവ് ലംഘിച്ച് ജനവിരുദ്ധ നടപടികളുടെയുന്ന ഡെൻ കേബിൾ ടി.വി. ആസ്ഥാനത്തേക്ക് വൻ പ്രതിഷേധ മാർച്ച്.

ഡെൻ ലോക്കൽ കേബിൾ ഓപ്പറേറ്റേഴ്സ് സംയുക്ത സമര സമിതിയുടെ നേതൃത്വത്തിൽ നടന്ന മാർച്ചും ധർണയും പി.ടി. തോമസ് എം.എൽ.എ. ഉദ്ഘാടനം ചെയ്തു. നിയമ വിരുദ്ധമായി പ്രവർത്തിക്കുന്നതിനെതിരേയാണ് ലോക്കൽ കേബിൾ ഓപ്പറേറ്റേഴ്സിന്റെ സമരമെന്ന് പി.ടി. തോമസ് പറഞ്ഞു.

ഉപഭോക്താക്കൾക്കു കിട്ടേണ്ട അവകാശം നേടിയെടുക്കാനാണ് ഓപ്പറേറ്റർമാർ സമരം നടത്തുന്നത്.

ട്രായ് ജനങ്ങൾക്ക് നൽകിയിരിക്കുന്ന അവകാശങ്ങളം ഹനിക്കാനുള്ള ബോധപൂർവമായ ശ്രമമാണ് ഡെൻ നടത്തുന്നത്. നിലപാടുകളം പാലിക്കുന്നില്ലെങ്കിൽ നിയമസഭയകത്തും പുറത്തും പോരാട്ടം നടത്താൻ ഓപ്പറേറ്റേഴ്സിന്റെ കൂടെയുണ്ടാകുമെന്ന് പി.ടി. തോമസ് കൂട്ടിച്ചേർത്തു.

കോടതി ഉത്തരവ് അട്ടിമറിക്കുന്ന ഡെൻ കമ്പനിയുടെ നടപടി മുഖ്യമന്ത്രിയുടെയും പ്രധാന പക്ഷ നേതാവിന്റെയും ശ്രദ്ധയിൽ കൊണ്ടുവരുമെന്നും സമിതി നേതാക്കൾ പറഞ്ഞു.

കോൺഗ്രസ് മോഹവലയത്തിൽ -

പറവൂർ ▸ ജനവിരുദ്ധ നയങ്ങളിലൂടെ ശ്രോഷണം സംഭവിച്ച കോൺഗ്രസുകാർ ഇപ്പോഴും മോഹവലയത്തിൽ നിൽക്കുകയാണെന്ന് മുഖ്യമന്ത്രി പിണറായി വിജയൻ. പറവൂരിൽ സി.പി.എം. ഏരിയ കമ്മിറ്റിയുടെ പുതിയ ഓഫീസ് മന്ദിരം ഉദ്ഘാടനം ചെയ്ത് സംസാരിക്കുകയായിരുന്നു അദ്ദേഹം.

കോൺഗ്രസ് ആദ്യം ചെയ്യേണ്ടത് ബി.ജെ.പി.യെ പരാജയപ്പെടുത്തുന്ന നിലപാട് എടുക്കുകയാണ് വേണ്ടത്. അടുത്ത പ്രധാനമന്ത്രി ആരാണെന്നുള്ളതൊക്കെ തിരഞ്ഞെടുപ്പിനു ശേഷമുള്ള കാര്യമാണ്; പിന്നീട് ചർച്ച ചെയ്യേണ്ട കാര്യം - പിണറായി പറഞ്ഞു.

മതനിരപേക്ഷത നിലനിർത്തുന്ന ഭരണഘടന പൊളിച്ചെഴുതാനുള്ള നീക്കമാണ് ബി.ജെ.പി.യുടേത് - പിണറായി പറഞ്ഞു.

പറവൂരിൽ സി.പി.എം. ഏരിയ മുഖ്യമന്ത്രി പിണറായി വിജയൻ

എസ്. ശർമ എം.എൽ.എ. അധ്യക്ഷനായി. എ.പി. വർ സ്മാരക ഹാളം മുൻ എം.പി. രാജീവും ടി. കെ. അബ്ബു സ്മാരക ഹാളം സി.പി.എം. ജില്ലാ സെക്രട്ടറി സി.എൻ. മോഹനനും ഉദ്ഘാടനം ചെയ്തു.

കേസരി ബാലകൃഷ്ണപിള്ള

ദുബായ് പെൺവാണിഭം:

INSTITUTE OF MANAGEMENT IN GOVERNMENT
Vikas Bhavan PO, Thiruvananthapuram – 33

No.8218/A1/2018/IMG 8 February 2019

Contract Appointment of Research Associate (female) Walk-in-Interview

The Institute of Management in Government (IMG) proposes to appoint one Research Associate (Female)for a GOI Project . The Details are available at IMG's website www.img.kerala.gov.in.

Sd/-
SECRETARY

The South Indian Bank Ltd.
CIN: L65191KL1929PLC001017
Website : www.southindianbank.com

നോട്ടീസ്

പൊതുജന ശ്രദ്ധയ്ക്കായി, കേരള സംസ്ഥാനം, എറണാകുളം ജില്ല, കണയന്നൂർ താലൂക്ക്, കാക്കനാട് വില്ലേജിലും പെട്ട, സീനർവ്വേ നമ്പർ 561pt, 562/1pt, 563/5pt - ൽ നിലനിലുള്ള ബാങ്ക് അഡിമിനിസ്ട്രേറ്റീവ് ഓഫീസ് കെട്ടിടനിർമ്മാണ പദ്ധതിയ്ക്കായിലവരെ പരിസ്ഥിതി അനുമതി തി. സൗത്ത് ഇന്ത്യൻ ബാങ്ക് ലി. എന്ന സ്ഥാപനത്തിന് കേന്ദ്ര പരിസ്ഥിതി വന കാലാവസ്ഥ വ്യതിയാന മന്ത്രാലയത്തിൽ നിന്നും മാർച്ച് നമ്പർ 21-52/2018-IA-III തീയതി 18-01-2019 ഓർഡർ പ്രകാരം ലഭിച്ചിരിയ്ക്കുന്നു. ഈ ഓർഡറിന്റെ പകർപ്പ് സംസ്ഥാന ലിമിനിരണ നിയന്ത്രണ അതോറിറ്റി മുമാണ് കൂടാതെ കേന്ദ്ര പരിസ്ഥിതി വന കാലാവസ്ഥ വ്യതിയാന മന്ത്രാലയത്തിന്റെ http://www.envfor.nic.in എന്ന വെബ്സൈറ്റിലൂടെയും പകർപ്പ് കാണാവുന്നതാണ്.

ഡെപ്യൂട്ടി ജനറൽ മാനേജർ & CSO
പ്രൊജീസസ് & മെയിന്റനൻസ് ഡിപ്പാർട്ട്മെന്റ്
സൗത്ത് ഇന്ത്യൻ ബാങ്ക് ലിമിറ്റഡ്
ഹെഡ് ഓഫീസ്, തിഷൻ ക്വാർട്ടേഴ്സ്
ടി ബി റോഡ്, തൃശ്ശൂർ - 680 001
ഇ-മെയിൽ: ho2022@sib.co.in | Ph: 0487 2436705

തൃശ്ശൂർ,
12-02-2019

കേരള സംസ്ഥാന ഭാഗ്യക്കുറി

ഡയറക്ടർ 0471-2305230 ഓഫീസ് 2305193, ഫാക്സ് 2301740
www.kerala.gov.in www.keralalotteries.com

വിൻ-വിൻ W-499 നറുക്കെടുപ്പ് ഫലം 11.02.2019
സ്ഥലം: ഗോർഖി ഭവൻ, വാൻറോസ് ജങ്ഷൻ, തിരുവനന്തപുരം

ഒന്നാം സമ്മാനം 65 ലക്ഷം രൂപ WW 687685
(മലപ്പുറം)

സാന്ത്വന സമ്മാനം 8000 രൂപ

WN 687685	WO 687685	WP 687685	WR 687685	WS 687685	WT 687685
WU 687685	WV 687685	WX 687685	WY 687685	WZ 687685	

2-ാം സമ്മാനം 10 ലക്ഷം രൂപ
WR 170780 (തൃശൂർ)

Notice – News paper

Annexure No. 8

Standard^S Environmental Monitoring

TC-5402

TEST REPORT

ULR No: TC540221000001261F	Date: 27.02.2021	Page 1 of 1

CUSTOMER DETAILS	
Customer Name & Address	**M/s The South Indian Bank Ltd** Administrative Block II Project Site, Infopark Express Way, Rajagiri Valley, Kakkanad , Ernakulam District.
Customer Reference	Test Request dt : 22.02.2021

SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	EN21020207
Sample Name	Ambient Air	Sample Received on	23.02.2021
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	23.02.2021
Sampled by	Lab Authorized Sampler	Test Completed on	27.02.2021
DETAILS OF SAMPLING			
Sampling Location	At Project site	Date of Sampling	22.02.2021
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	58%
SAMPLING SITE DETAILS			
Re-Survey No	561pt, 562/1pt, 563/5pt		
Village	Kakkanad	Taluk	Kanayannur
District	Ernakulam	State	Kerala

TEST RESULTS– CHEMICAL PARAMETERS

Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ Standards
1	Particulate Matter, PM_{10}	IS 5182 (Part 23):2006	$\mu g/m^3$	80.1	Max 100
2	Particulate Matter, $PM_{2.5}$	EPA 40 CFR (Part 50) Appendix – L	$\mu g/m^3$	28.2	Max 60
3	Sulphur Dioxide as SO_2	IS 5182 (Part 2): 2001 RA 2017	$\mu g/m^3$	< 2.00	Max 80
4	Oxides of Nitrogen as NO_2	IS 5182 (Part 6): 2006 RA 2017	$\mu g/m^3$	< 2.00	Max 80

Remarks:

End of Report

Shency Joy
Dy. TM Chemical
Checked by:

Laiju P. N.
Laboratory Head
Authorized Signatory

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Result of Ambient Air

Annexure No.9

Standard^S Environmental Monitoring

TC-5402

TEST REPORT

ULR No: TC540221000001262F	Date: 27.02.2021	Page 1 of 1

CUSTOMER DETAILS	
Customer Name & Address	**M/s The South Indian Bank Ltd** Administrative Block II Project Site, Infopark Express Way, Rajagiri Valley, Kakkanad , Ernakulam District.
Customer Reference	Test Request dt : 22.02.2021

DETAILS OF MONITORING			
Product Category	Atmospheric Pollution	Sample Code	EN21020208
Sample Name	Ambient Noise	Monitoring Commenced on	22.02.2021/ 06:00
Monitoring Location	At Project Site	Monitoring Completed on	23.02.2021/ 06:00
Test Method	IS 9989:1981 RA:2008	Monitored by	Lab Authorized Sampler
MONITORING SITE DETAILS			
Re-Survey No	561pt, 562/1pt, 563/5pt		
Village	Kakkanad	Taluk	Kanayannur
District	Ernakulam	State	Kerala

MONITORING RESULTS - Leq					
TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	40.7	14:00	54.6	22:00	39.5
07:00	43.7	15:00	55.0	23:00	34.3
08:00	48.3	16:00	56.3	24:00	36.8
09:00	52.1	17:00	56.7	01:00	37.5
10:00	54.6	18:00	50.8	02:00	37.2
11:00	58.0	19:00	47.0	03:00	37.9
12:00	55.0	20:00	42.8	04:00	36.8
13:00	54.2	21:00	42.3	05:00	38.6

TEST RESULTS– CHEMICALPARAMETERS			
Sl. No.	PARAMETERS	UNIT	RESULT
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	53.1
2	Ambient Sound Level (Leq) Night Time (22:00 to 06:00)	dB(A)	37.2

Remarks:

End of Report

Shency Joy
Dy. TM Chemical
Checked by:

Laiju P. N.
Laboratory Head
Authorized Signatory

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Result of Ambient Noise

Annexure No.10

Standard^S Environmental Monitoring

TC-5402

TEST REPORT

ULR No: TC540221000001266F	Date: 27.02.2021	Page 1 of 2

CUSTOMER DETAILS	
Customer Name & Address	**M/s The South Indian Bank Ltd** Administrative Block II Project Site, Infopark Express Way, Rajagiri Valley, Kakkanad , Ernakulam District.
Customer Reference	Test Request dt : 22.02.2021

SAMPLE DETAILS			
Product Category	Water	Sample Code	WT21020094
Sample Name	Open Well	Sample Received on	23.02.2021
Sample Conditions at Receipt	Fit for Analysis	Temperature @ Receipt	4°C
Sample Quantity& Packing	1L & 250ml Plastic Bottles	Test Commenced on	24.02.2021
Sampled by	Lab Authorized Sampler	Test Completed on	27.02.2021

DETAILS OF SAMPLING			
Sample Source	Open Well	Date of Sampling	22.02.2021
Sampling Procedure	SEAAL/ENL/GEN/SOP/01& SEAAL/MBL/SOP/06	Sample Temperature	31 °C

SAMPLING SITE DETAILS			
Re-Survey No	561pt, 562/1pt, 563/5pt		
Village	Kakkanad	Taluk	Kanayannur
District	Ernakulam	State	Kerala

TEST RESULTS– CHEMICAL PARAMETERS

Sl.No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500 : 2012
1	Colour	IS 3025 (Part 4):1983 RA 2017	Hazen	1.00	Max 5
2	Odour	IS 3025 (Part 5):2018	---	Agreeable	Agreeable
3	Turbidity	IS 3025 (Part 10):1984 RA 2017	NTU	4.20	Max 1
4	pH	IS 3025 (Part 11):1983 RA 2017	---	7.39	6.50 – 8.50
5	Conductivity	IS 3025 (Part 14):1984 RA 2019	µS/cm	1643	---
6	Total Dissolved Solids	IS 3025 (Part 16):1984 RA 2017	mg/L	739	Max 500
7	Total Hardness as $CaCO_3$	IS 3025 (Part 21):2009 RA 2019	mg/L	250	Max 200
8	Calcium as Ca	IS 3025 (Part 40):1991 RA 2019	mg/L	68.1	Max 75
9	Magnesium as Mg	IS 3025 (Part 46):1994 RA 2019	mg/L	19.5	Max 30
10	Chloride as Cl	IS 3025 (Part 32):1988 RA 2019	mg/L	302	Max 250

Shency Joy
Dy. TM Chemical

Salini T. S.
Microbiologist

Laiju P. N.
Laboratory Head

Checked by: Authorized Signatory Authorized Signatory

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Standard^S
Environmental Monitoring

TC-5402

TEST REPORT

ULR No: TC540221000001266F	Date: 27.02.2021	Page 2 of 2

11	Total Alkalinity as $CaCO_3$	IS 3025 (Part 23):1986 RA 2019	mg/L	202	Max 200
12	Iron as Fe	IS 3025 (Part 53):2003 RA 2019	mg/L	0.72	Max 1
13	Sulphate as SO_4	IS 3025 (Part 24):1986 RA 2019	mg/L	2.45	Max 200

TEST RESULTS – BIOLOGICAL PARAMETERS

Sl.No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500 : 2012
1	Total Coliform Bacteria	IS 15185 : 2016	----	Present/100 ml	Absent/100 ml
2	E coli	IS 15185 : 2016	----	Absent/100 ml	Absent/100 ml

Remarks:

End of Report

Shency Joy
Dy. TM Chemical
Checked by:

Salini T. S.
Microbiologist
Authorized Signatory

Laiju P. N.
Laboratory Head
Authorized Signatory

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Result of Ambient water

Annexure No.11

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Environmental Monitoring

TC-5402

TEST REPORT

ULR No: TC540221000001263F	Date: 27.02.2021	Page 1 of 1

CUSTOMER DETAILS	
Customer Name & Address	**M/s The South Indian Bank Ltd** Administrative Block II Project Site, Infopark Express Way, Rajagiri Valley, Kakkanad , Ernakulam District.
Customer Reference	Test Request dt : 22.02.2021

SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	EN21020209
Sample Name	Stack Emission	Sample Received on	23.02.2021
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	23.02.2021
Sampled by	Lab Authorized Sampler	Test Completed on	27.02.2021

DETAILS OF SAMPLING			
Stack Identity	82.5 KVA DG Set	Stack Diameter	0.10 m
Date of Sampling	22.02.2021	Sampling Procedure	SEAAL/ENL/GEN/SOP/03

SAMPLING SITE DETAILS			
Re-Survey No	561pt, 562/1pt, 563/5pt		
Village	Kakkanad	Taluk	Kanayannur
District	Ernakulam	State	Kerala

TEST RESULTS – CHEMICAL PARAMETERS

Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	CPCB LIMIT
1	Temperature	IS 11255 Part 3: 2008 RA 2018	^oC	76.0	---
2	Velocity of Gas Discharged	IS 11255 Part 3: 2008 RA 2018	m/sec	13.4	---
3	Volume of Gas Discharged	IS 11255 Part 3: 2008 RA 2018	Nm^3/Hr	329	---
4	Oxides of Nitrogen	IS 11255 Part 7: 2005 RA 2017	g/kW-hr	0.009	4.0
5	Non Methane Hydrocarbon	USEPA Method 25	g/kW-hr	0.011	
6	Carbon Monoxide (as CO)	IS 13270 : 1992 RA 2014	g/kW-hr	0.010	3.5

Remarks:

Shency Joy
Dy. TM Chemical

End of Report

Checked by:

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Laboratory Head
Authorized Signatory

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Standard[S] Environmental Monitoring

TC-5402

TEST REPORT

ULR No: TC540221000001264F	Date: 27.02.2021	Page 1 of 1

CUSTOMER DETAILS	
Customer Name & Address	**M/s The South Indian Bank Ltd** Administrative Block II Project Site, Infopark Express Way, Rajagiri Valley, Kakkanad , Ernakulam District.
Customer Reference	Test Request dt : 22.02.2021

SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	EN21020210
Sample Name	Stack Emission	Sample Received on	23.02.2021
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	23.02.2021
Sampled by	Lab Authorized Sampler	Test Completed on	27.02.2021

DETAILS OF SAMPLING			
Stack Identity	125 KVA DG Set - 1	Stack Diameter	0.127 m
Date of Sampling	22.02.2021	Sampling Procedure	SEAAL/ENL/GEN/SOP/03

SAMPLING SITE DETAILS			
Re-Survey No	561pt, 562/1pt, 563/5pt		
Village	Kakkanad	Taluk	Kanayannur
District	Ernakulam	State	Kerala

TEST RESULTS – CHEMICAL PARAMETERS

Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	CPCB LIMIT
1	Temperature	IS 11255 Part 3: 2008 RA 2018	°C	102	---
2	Velocity of Gas Discharged	IS 11255 Part 3: 2008 RA 2018	m/sec	15.9	---
3	Volume of Gas Discharged	IS 11255 Part 3: 2008 RA 2018	Nm^3/Hr	586	---
4	Oxides of Nitrogen	IS 11255 Part 7: 2005 RA 2017	g/kW-hr	0.019	4.0
5	Non Methane Hydrocarbon	USEPA Method 25	g/kW-hr	0.024	
6	Carbon Monoxide (as CO)	IS 13270 : 1992 RA 2014	g/kW-hr	0.018	3.5

Remarks:

End of Report

Shency Joy
Dy. TM Chemical
Checked by:

Laiju P. N.
Laboratory Head
Authorized Signatory

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Standard^S
Environmental Monitoring

TC-5402

TEST REPORT

ULR No: TC540221000001265F	Date: 27.02.2021	Page 1 of 1

CUSTOMER DETAILS	
Customer Name & Address	**M/s The South Indian Bank Ltd** Administrative Block II Project Site, Infopark Express Way, Rajagiri Valley, Kakkanad , Ernakulam District.
Customer Reference	Test Request dt : 22.02.2021

SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	EN21020211
Sample Name	Stack Emission	Sample Received on	23.02.2021
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	23.02.2021
Sampled by	Lab Authorized Sampler	Test Completed on	27.02.2021

DETAILS OF SAMPLING			
Stack Identity	125 KVA DG Set - 2	Stack Diameter	0.127 m
Date of Sampling	22.02.2021	Sampling Procedure	SEAAL/ENL/GEN/SOP/03

SAMPLING SITE DETAILS			
Re-Survey No	561pt, 562/1pt, 563/5pt		
Village	Kakkanad	Taluk	Kanayannur
District	Ernakulam	State	Kerala

TEST RESULTS – CHEMICAL PARAMETERS

Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	CPCB LIMIT
1	Temperature	IS 11255 Part 3: 2008 RA 2018	^oC	74.0	---
2	Velocity of Gas Discharged	IS 11255 Part 3: 2008 RA 2018	m/sec	14.1	---
3	Volume of Gas Discharged	IS 11255 Part 3: 2008 RA 2018	Nm^3/Hr	561	---
4	Oxides of Nitrogen	IS 11255 Part 7: 2005 RA 2017	g/kW-hr	0.013	4.0
5	Non Methane Hydrocarbon	USEPA Method 25	g/kW-hr	0.020	
6	Carbon Monoxide (as CO)	IS 13270 : 1992 RA 2014	g/kW-hr	0.009	3.5

Remarks:

End of Report

Shency Joy
Dy. TM Chemical
Checked by:

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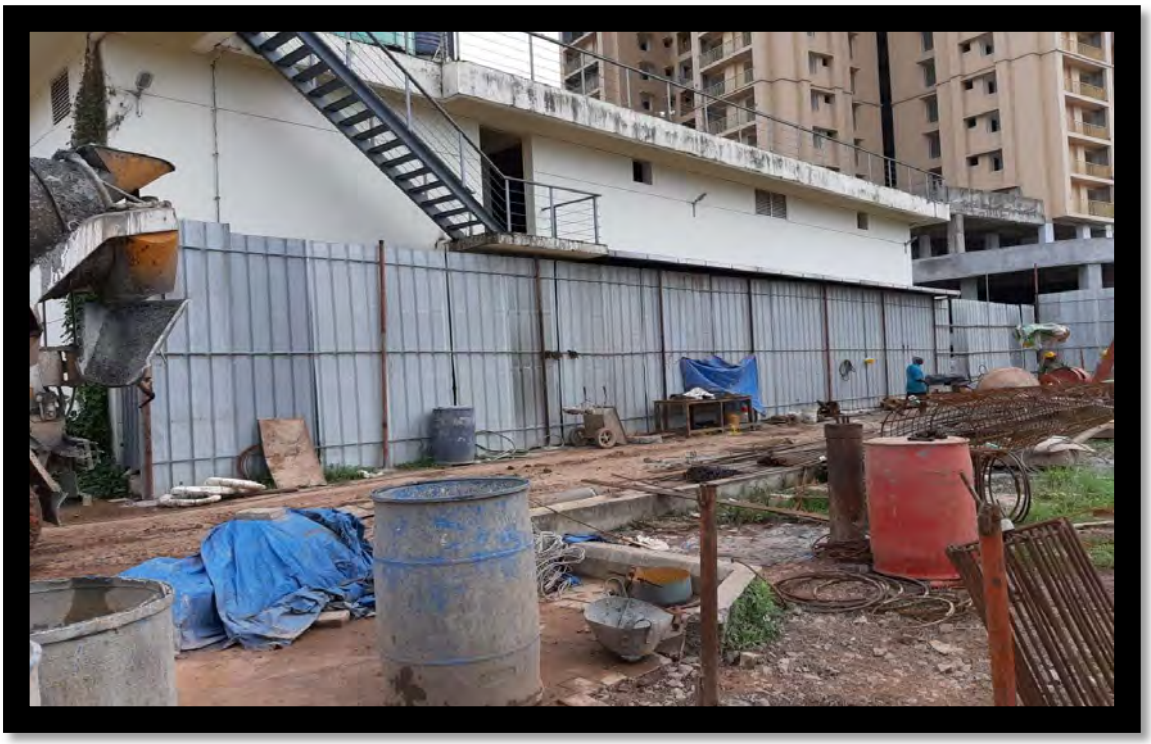
Stack Emission of D G Sets

PLATES

Plate No.1



Barricade around the project site

Plate No. 2

Splashing at project site