

COMPLIANCE REPORT

**M/S RAJAGIRI HEALTHCARE AND EDUCATION
TRUST
CHUNANGAMVELY, ALUYA,
ERNAKULAM - KERALA**

APRIL 2024 - SEPTEMBER 2024



Dt.27-12-2024

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.21-12/2018-IA-III dt. 19-07-2019

Sub :- Environment Clearance – Expansion of Existing Hospital cum Residential project at survey nos 2140/73, 936/1/46, 939/1/45 (Re-Survey Nos. 134) of Edathala Village, Aluva Taluk, Ernakulam District, Kerala..– Compliance Report – First half - Reg.

Respected Sir,

The construction project was accorded Environmental Clearance for **4,20,309.25 sq. m** of build up area on 17-07-2019, vide letter **F.No.21-12/2018-IA-III** by MoEF&CC As per the condition stipulated in EC order, the half yearly compliance report of **Second half** (April 2024 – September 2024) to the specific conditions and standard conditions of the Environment Clearance is enclosed.

Thanking you

Yours respectfully,

For M/s Rajagiri Health care and Education Trust


Fr. Johnson Vazhappilly CMI
Executive Director & CEO
Rajagiri Hospital
Aluva-683112
(Project Head)



Encl: - As Above

COMPLIANCE REPORT
TO
THE CONDITIONS
OF
ENVIRONMENT CLEARANCE ORDER
(F No: 21- 12/2018 -IA-III, dated 19.07.2019)

M/s Rajagiri Healthcare and Education Trust

**Rajagiri Healthcare and Education Trust,
Chunangamvely, Aluva
Ernakulam, Kerala.**

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INTRODUCTION

M/s Rajagiri Healthcare and Education Trust is situated at Survey Nos. 2140/73,936/1/45, 939/1/45 (New Re-survey No. 134) of Edathala Village, Aluva Taluk, Ernakulam District, Kerala. The construction project was accorded Environmental Clearance for **4, 20, 309.25 sq.mtr** of built up area on 19-07-2019 vide order No. **F No: 21-12/2018 –IA-III** by Ministry of Environment, Forest and Climate Change (MoEF&CC), Gol.

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 2024 – September 2024** (First half) is being submitted.

The construction of Expansion of hospital project is progressing in the project site. The photograph of the hospital building and site under construction is attached as **Plate No. 1**.

COMPLIANCE REPORT SPECIFIC CONDITIONS

SPECIFIC CONDITION

01	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.	Complied
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The PP has started the construction of expansion in the project site. The project proponent has obtained Consent to Establish from 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. 1 & 2**.

02	The approval of the Component 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.	Complied
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The proposed building is having structural stability from structural engineer; the structural stability certificate is attached as **Annexure No. 3**. The construction has been completed. All safety measures for enhance safety of labours is being provided in the project site. The protection measures from lightening will be provided to the proposed building.

03	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
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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 7**. All the construction has been done in accordance with the local building byelaws.

Table No.1 – Details of obtained approvals and licenses

Annex. No.	Name of approvals
1	Consent to Establish - Kerala State Pollution Control Board
2	Consent to operate - Kerala State Pollution Control Board
3	Structural stability
4	Building Permit – Grama Panchayath
4A	Building permit– Grama Panchayath
5	NOC - Fire and Rescue Services Dept., Govt. of Kerala
5A	NOC - Fire and Rescue Services Dept., Govt. of Kerala
6	Environmental Clearance - State Environmental Impact Assessment Authority
7	Ownership Certificate

04	Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.	Complied
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The Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities is being implemented

- a. Roads leading to project site is paved
- b. No soil excavations was made in the project site without deploying dust mitigation measures
- c. All loose soil, sand and construction waste were covered properly
- d. Water sprinkling system is in place
- e. There is no grilling and cutting of construction materials in open places
- f. Construction materials and wastes are being kept in an earmarked area
- g. All vehicles carrying building materials are covered with appropriate sheet

05	A fresh water requirement from Kerala Water Authority/Rain water shall not exceed 830 KLD.	Complied
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The fresh water requirement from Rain water tanks and wells are not exceeding 830 KLD.

06	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.	Complied
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Since the project area is not notified as critical area by CGWA, the approval for ground water abstraction is not needed. However, the project proponent has already consulted with ground water department for ground water drawl. There was no dewatering activity during construction activity.

07	A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.	Noted
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The project proponent does not take water from KWA and drinking water supply programme of Local Self Government. Therefore obtaining of certificate on specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available is not necessary from local authority. The PP has constructed a pond as water source for the hospital project.

08	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. boiler req. and excess for makeup water requirement for cooling towers	Complied
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	attached with HVAC system. As proposed, no treated water shall be discharged to Municipal drain	
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The project proponent has constructed an STP in the hospital campus. All sewage generated from the hospital and allied building is leading to the existing STP for recycling. The used waster is being used for cooling towers attached with HVAC system, flushing and gardening. The Photograph of the STP is attached as **Plate No. 1A**

09	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. As proposed rain water harvesting tanks and rain water harvesting ponds shall be provided.	complied
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As part of rain water conservation, the project proponent has constructed rain water harvesting tank with the capacity of 600 KL. The local bye-law provisions on rain water harvesting is being followed. The rain water harvesting made mandatory with an amendment in Kerala Panchayath Building Rules. The project proponent is being complied with the provision. The project proponent is also recharging roof top rain water to an old well. The PP has obtained building permit from Local Self Government.

10	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.	Complied
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The instant construction is a hospital project. The project proponent is following the Solid waste Management Rules, 2016 and separate wet and dry bins are placed in each floors

and at the ground level for facilitating segregation of waste. Solid wastes are being segregated into wet garbage and inert materials. The food waste is going to pig farm. Adequate area has earmarked for solid waste management which is included area for segregation, composting. The project proponent has provided adequate storage area for bio medical waste and solid waste in the hospital building in operation. The PP has earmarked 6000 sq.ft for waste storage and handling.

11	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.	Complied
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The project proponent has got electrical connection from KSEB. The supply of power is regularly provided by the Kerala Electricity Board under Kerala Government (KSEB).

12	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.	Noted
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The project proponent does not hand over any municipal solid waste generated from the project site. The project proponent disposed all bio degradable solid waste in the project site or to the piggery farm. All other non bio degradable solid waste is being sold to the local vendor.

13	Laboratory wastes shall be managed in accordance to the BMW Rules, 2016 and the atomic Energy Commission regulations as applicable.	Complied
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The project proponent has earmarked adequate space for the collection of bio - medical waste generated from the instant hospital. In the existing hospital the project proponent has made an agreement with IMAGE to collect, convey and disposes of all bio medical wastes generated from the project site.

14	A detailed traffic management and traffic decongestion plan shall	Complied
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	be drawn up to ensure that the current level of service of the roads within a 02 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 02 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.	
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The PP has developed a detailed traffic plan for the hospital project. The hospital is situated near to the Aluva – Moovattupuzha Road, which is maintained and operated by the state Government. The project proponent has made separate entry and exit to the said road for proposer traffic management. A traffic management study report is submitted at EAC during the appraisal of the project. The project proponent has conducted a traffic management study with the technical support of M/s. HAbog Consultants Pvt. Ltd, Bangalore. Its copy is attached as **Appendix 1**.

15	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). As proposed, 70,589.71 sqm (57.82%) area shall be provided for green area development.	Being complied
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The project proponent has planter many tree saplings in the project site. There is no Water intensive and/or invasive species used for landscaping. The project proponent did not cut any tree saplings for the construction of proposed building for the expansion of the existing hospital. The project proponent has planted 151 tree saplings and 271 shrubs in the period from January 2024 to December 2024. The details of the planted saplings is attached as **Annexure No. 8.**

16	The company shall draw up and implement corporate social Responsibility plan as per the Company's Act of 2013.	Noted
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The hospital has established a Social Work Department in the hospital project for the support of patients admitted in the hospital. The project proponent has been providing treatment and conduct operation in discounted rates for the patients from economically back ward families, In addition, many medical camps are conducting in community level with free of cost.

17	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. 3.75 Crore (@0.25% of project Cost) shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as Promotion of Education, Health & Medical care, Solid Waste Management Facility, Rain water harvesting and Avenue Plantation 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.	Being complied
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The project proponent has executed many activities under health and medical care for the local people living around the hospital project. Since it is a hospital project, there is no

negative impact around the project site. The project proponent has been conducting monitoring reports of Air, Noise and Water regularly and enclosed in the half yearly compliance report. This is being uploaded in the website of the hospital. The Project proponent has spent more than Rs. 5,00,000 lakh for various medical and Blood donation camp.

COMPLIANCE REPORT STANDARD CONDITIONS

I. STATUTORY COMPLIANCE

01	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1980, in case of the diversion of forest land for non-forest purpose involved in the project.	Not needed
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The instant hospital project is in the own land of the project proponent. Since the project is not in any type of forest under State or Central Government, the forest clearance is not necessary for the instant hospital project.

02	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	Not needed
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The proposed project is outside from 10 Km vicinity of any of National Park or Wild Life Sanctuary, therefore Wild life clearance is not necessary from national Wild Life Board.

03	The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority	Noted
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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 had formal consultation with ground water department for ground water drawl. The main source of water in the project is pond constructed in the project site.

04	A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.	Noted
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The project proponent has got Electricity connection. The supply of power is being provided by the Kerala Electricity Board under Kerala Government. The DG set is being used at construction area as and when power is needed.

05	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained. as applicable, by project proponents from the respective competent authorities.	Complied
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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 7**. All the construction has been done in accordance with the local building byelaws.

Details of obtained approvals and licenses

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4A	Building permit– Grama Panchayath
5	NOC - Fire and Rescue Services Dept., Govt. of Kerala
5A	NOC - Fire and Rescue Services Dept., Govt. of Kerala
6	Environmental Clearance - State Environmental Impact Assessment Authority
7	Ownership Certificate

06	The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016. and the Plastics Waste (Management) Rules, 2016 shall be followed.	Complied
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The project proponent has been following all Rules related to various types of wastes issued in 2016 including Solid Waste (Management) Rules, 2016, e-Waste (Management)

Rules, 2016 and the Plastics Waste (Management) Rules, 2016m is being followed in the hospital which is in operation. The wastes generated in the constriction area is also handled and managed in tune with the Rules enacted in 2016 and subsequent amendment.

07	The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.	Complied
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The project proponent has installed LED light in the common are of the existing hospital. The proponent will follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly for the upcoming projects.

II. Air quality monitoring and preservation

01	A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.	Being Complied
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As part of management plan for air quality preservation, the Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities is being implemented in the project site. The main mitigate measures executed in the project site is listed below:-

- a. Roads leading to project site is paved
- b. No soil excavations was made in the project site without deploying dust mitigation measures
- c. All loose soil, sand and construction waste were covered properly
- d. Water sprinkling system is in place
- e. There is no grilling and cutting of construction materials in open places
- f. Construction materials and wastes are being kept in an earmarked area
- g. All vehicles carrying building materials are covered with appropriate sheet

02	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5) covering upwind and downwind directions during the construction period	Complied
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The project proponent has carrying out ambient Air quality monitoring in the project site covering upwind and downwind directions by a NABL accredited lab in frequent interval. The monitored data is attached as Annexure with HYCR.

03	Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.	Complied
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The DG set was placed in consultation with SPCB, the stack height is as per standard of SPCB. Acoustic enclosures are 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. The project proponent can provide backup power from DG from existing DG unit. The photograph of the DG unit is attached as **Plate No. 2**.

04	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.	Complied
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The project proponent adequately barricaded around the project site. Plastic/tarpaulin sheet covers is provided for vehicles to bring 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 jet

provided for grinding and stone cutting. Unpaved surfaces and loose soil is adequately sprinkled with water to suppress dust.

05	Sand, murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.	Being Complied
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Plastic/tarpaulin sheet covers is being provided for vehicles bringing in sand, cement, murram and other construction materials.

06	Wet jet shall be provided for grinding and stone cutting.	Being Complied
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The wet jet is provided for grinding and stone cutting at construction site for controlling of pollution.

07	Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.	Being Complied
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To prevent the dust emission from the unpaved surface near to the construction site, The project proponent has been sprinkling water in frequent interval.

08	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 Management Rules, 2016.	Being Complied
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All construction and demolition debris stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction wastes will be managed as per the provisions of the Construction and Demolition Waste Rules, 2016.

09	The diesel generator sets to be used during construction phase	Being
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	shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.	Complied
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The project proponent is using DG set in operational phase as well as 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.

10	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.	Being Complied
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The DG set was placed in consultation with SPCB, the stack height is as per standard of SPCB. Acoustic enclosures are 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. The photograph of the DG set and the height of the stack is being attached as **Plate No. 2 and 3**. To install new DG after construction, the PP will follow the norm of KSPCB.

11	For indoor air quality the ventilation provisions as per National Building Code of India	Complied
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The hospital building is constructed as fully air-conditioned project. The pre filters and bag filters are regularly changed to provide better indoor air quality.

III. WATER QUALITY MONITORING AND PRESERVATION

01	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	Complied
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	maintaining the drainage pattern and to harvest rain water	
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The project proponent had conducted contour survey to identify how the drainage to be constructed. At present the hospital has completed the construction of drainage without obstruct the natural drainage through the site. The all buildings are designed to follow the natural topography as much as possible. To reduce the environmental impact minimum cutting and filling was followed. No water bodies and wet land in and around the project site. The same will be followed in new construction area.

02	Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done	Complied
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The building is designed based on the topography of the land. The cutting for the construction of building or basement was minimal. The new building is designed to reduce cutting by retaining natural topography.

03	Total fresh water use shall not exceed the proposed requirement as provided in the project details.	Will be Complied
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The total fresh water requirement does not exceed the proposed requirement provided in the project details. The expansion is under progressing the hospital complex.

04	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.	Complied
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The project proponent has installed water meter to monitor the quantity of fresh water usage, water recycling and rainwater harvesting and it will be recorded to send to the Regional Office, MoEF&CC along with six monthly Monitoring reports. The photograph of the water meter is attached as **Plate No. 4**.

05	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
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The project proponent has provided more than 20% of the open spaces as pervious surface. This will be followed in the new project.

06	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.	complied
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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. in the operational building. In the building construction under progress, the project proponent has started to install dual plumbing. The Dual plumbing will be provided for the project under construction

07	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.	complied
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In the instant project, water saving devices/ fixtures viz low flushing systems, use of low flow faucets tap aerators etc. for water conservation is incorporated in the building. All taps are fitted with aerators in the hospital project. The upgraded version of water saving fixtures installed in the building in the hospital campus. The water conserving fixtures will be installed in the project under construction.

08	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.	Complied
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Dual plumbing system has installed in the project for separation of grey and black water in the existing hospital project same will be done in the building under construction. Dual plumbing will be provided to the expansion project.

09	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	Complied
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As part of conservation of water, water demand during construction was reduced by use of pre-mixed concrete, curing agents, Usage of Admixtures in concrete and rain water harvesting. This will be followed during future for proposed construction. The PP will be used pre mixed concrete in the construction project.

10	A rain water harvesting plant needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.	Complied
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The project proponent has built a rain water harvesting tank in the project site for collecting roof top rain water. This stored rain water is being reused for domestic purposes. The project proponent is recharging one old well by using rooftop rain water. A pond is constructed as source of water. The PP has designed rain water harvesting facility for new building.

11	All recharge should be limited to shallow aquifer.	Complied
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The project proponent is recharging an old well by roof top rain water. The recharge is limited to shallow aquifer.

12	No ground water shall be used during construction phase of the project.	Complied
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No ground water used for construction of new building of the hospital project. The stored water was used for the construction of building. No ground water is being used for construction of expansion project.

13	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.	Noted
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Since the project area is not notified as critical area by CGWA, the approval for ground water abstraction is not needed. There was no dewatering from the project site during construction phase.

14	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.	Complied
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The project proponent has installed water meter to monitor the quantity of fresh water usage, water recycling and rainwater harvesting and it is being recorded to send to the Regional Office, MoEF&CC along with six monthly Monitoring reports. Photograph of water meter is attached as **Plate No.4**. The same will be followed in the expansion project.

15	No sewage or untreated effluent water would be discharged through storm water drains.	Complied
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The project proponent has constructed STP in the project site to recycling all sewage generated from the hospital project. In construction phase the project proponent has constructed temporary toilets with septic tank followed by soak pit. No untreated effluent or sewage water discharged to any of the storm water drain. The waste water and sewage generated from the expansion project will be channelised to the existing STP.

16	Onsite sewage treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated waste water shall be reused on site for landscape, flushing. cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted	Complied
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The project proponent has already installed STP in the hospital project , this STP can treat the additional sewage load generated from the new building. The treated waste water shall be reused on site for landscape, flushing. cooling tower, and other end-uses.

17	Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.	Complied
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The project proponent has made an agreement with the STP supplier for the maintenance therefore technicians for STP maintenance is available 24 hours a day. The STP is set up as different unit detached from the hospital building. Since it is having proper ventilation, design and periodic maintenance it does not having odour problem

18	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.	Complied
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The sewage generated from the project site is treated in STP. The sludge generated from the STP is using as manure after dewatering process. Therefore there is no need to collect, convey and dispose the sludge from the hospital project.

IV. Noise monitoring and prevention

01	Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase. so as to conform to the stipulated standards by CPCB / SPCB.	Complied
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The main noise generating activity in the project site is operation of DG set, STP and playing of vehicles. The STP and DG set are in separate building and no connection with Hospital building. Incremental pollution loads on the ambient air and noise quality is being closely monitored with the help of an NABL accredited laboratory during construction and operational phase. The PP is assuring that no noise is being generate from the project site especially during night.

02	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	Complied
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The noise level survey is carried out by a NABL approved laboratory. The result of the same is attached as Annexure No.11. The noise level is closely monitored at frequent intervals to check the noise generated from the project site.

03	Acoustic enclosures for DG sets. noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.	Complied
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There are 5 DG sets installed in the project site. To prevent and reduce the impact of noise from the construction site the project proponent has provided noise barriers, enclosures for DG, ear plugs to labours proper shed to grind and cutting of building materials. The details of DG set is as follows

1250 KVA – 3 nos

600 KVA – 1 nos

320 KVA – 1 nos

In addition to above DG is being used in the construction site.

V. Energy Conservation measures

01	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.	Complied
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To conserve energy the project proponent has installed LED and other energy saving devices and measures as per the BEE of ECBC in the Kerala State.

02	Outdoor and common area lighting shall be LED.	Complied
----	--	----------

The all lights including outdoor and common area are LED. This will be followed in the expansion project.

03	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.	Complied
----	--	----------

To comply the guidelines, 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. are incorporated in the building design. The U – values of Wall, window, and roof are as per ECBC specifications. The overall design of the building is helping to reduce conventional energy. The new building is designed to get natural light in the building.

04	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	Complied
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As part of energy conservation installation of LED is using for the lighting inside and outside of the building. The project proponent installed all electric items in connection with energy efficiency. The PP will fix LED light and other energy conservation educelements in the new building.

05	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	Being Complied
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The project proponent is intending to install solar panels and water heater in the building to meet solar power generation equivalent to 1% of the total demand lead from KSEB. The installation of solar work is under progress, The photograph of the solar work under progress is attached as **Plate No.5**.

06	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	Noted
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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 hospital project.

VI. Waste Management

01	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
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The project proponent had taken care in the disposal of muck during construction phase, which did not create any adverse effect on the neighbouring communities. The proponent has taken necessary precautions for general safety and health aspects of people.

02	Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.	Complied
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The project proponent has installed organic waste compost in the hospital project. The food waste is being transported to piggery farm located near to the project site. The same method will be followed for new project.

03	All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.	Complied
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All non bio degradable waste is handing over to the local vendors near to the project site for recycling. A proper place is earmarked to store the non bio degradable waste.

04	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.	Being Complied
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The main hazardous waste generated from the construction phase is used oil form the DG set. The usage of DG set is minimal in the construction phase. The used oil and oil filters are disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board. The project proponent has a tie up with an agency having approval from KSPCB.

05	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.	Being Complied
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The project proponent had used fly ash mixed cements in construction of hospital project. Ready mixed concrete used to reduce various type of pollution and material loss. The PP is using fly ash mixed cement for construction.

06	Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27' August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction	Complied
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The project proponent had used ready mixed concrete in the project site and used fly ash mixed cements in construction of hospital project. It is not necessary to include the fly ash materials in construction site since it is 100 km away from fly ash generated plants. The same will be used in the proposed construction.

07	Any wastes from construction and demolition activities related there to shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.	Being Complied
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All construction and demolition waste were handled and managed in the project site as per Construction and Demolition Waste Management Rules, 2016. The same will be doing in the construction site.

08	Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.	Complied
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As part of energy conservation, LED lighting is provided wherever possible in the existing working hospital. All lights will be LED in the expansion building which is under construction. Used CFLs, TFL, and LED will be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.

VII. Green Cover

01	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.	Complied
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The project proponent has stripped topsoil to a depth of 20 cm from the area proposed for buildings roads, paved area and external services. This fertile soil has been used for landscape developing in the project site.

VIII. Transport

01	A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment. and safety of users. The road system can be designed with these basic criteria. a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic. b. Traffic calming measures. c. Proper design of entry and exit points. d. Parking norms as per local regulation.	Complied
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The project proponent has provided sufficient parking spaces for four wheelers and two wheelers. To reduce traffic at internal roads of the hospital project provided sufficient width to the drive ways. The proponent has provided separate entry and exit which can reduce congestion of traffic movement. A proper segregation of vehicular and pedestrian traffic has been arranged in the hospital project. During construction phase the PP has made arrangement for separate transportation for goods vehicle for construction materials.

02	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.	Complied
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The project proponent ensured that all vehicles hired for bringing construction material to the site was in good condition and have a pollution check certificate and conform to applicable air and noise emission standards. The transportation of materials was only during nonpeak hours. PP is being assured the transportation of construction materials is not affecting the regular operation and calmness of hospital project.

IX. Human health issues

01	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	Complied
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The project proponent has provided all safety gears to the labours for construction of hospital project. Mask against dust was provided to all labours to prevent respiratory problems.

02	For indoor air quality the ventilation provisions as per National Building Code of India.	Complied
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The project proponent has provided ventilation provision to the instant construction of building as per National Building Code of India.

03	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented	Complied
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The project proponent had incorporated the disaster management measures in the building design of hospital project. The project proponent has also submitted the Disaster Management plan for both manmade and natural. The project proponent is being incorporated all safety measures in the hospital to reduce causalities in case of any disaster. The project proponent has already appointed a safety officer to supervise all such plans and mitigation measures.

04	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project	Complied
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The project proponent has provided necessary infrastructure and facilities for labours before commencing construction activity. As part of this the labours are being provided safe drinking water, hygienic toilets, health care facility. The housing facilities of labours were temporary arrangement which will be removed after completion of work. The labour camp is within 1 KM from the project site.

05	Occupational health surveillance of the workers shall be done on a regular basis.	Complied
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The construction of building is for the expansion of existing hospital project, therefore the project proponent could do occupational health surveillance of the workers. The civil work contractor is being arranged the occupation health surveillance of the workers.

06	A First Aid Room shall be provided in the project both during construction and operations of the project.	Complied
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To provide first aid to the labours during construction phase, the First Aid facility has been setup as per the guidelines mentioned in BOCW (Building and other construction Workers Act). The project proponent had been keeping first aid box in first aid room. A brief detail of First Aid Facility kept in the project site during construction phase is mentioned below. In operational first aid box is not necessary since the project is for a hospital building.

- 1. Betadine gargle mint**
- 2. Refresh eye drop**
- 3. Spray – voline**
- 4. Digital thermometer**
- 5. Cotton and Bandage etc.,**

X. Corporate Environment Responsibility

01	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	Complied
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The Project proponent has prepared an Environmental policy covering all points mentioned in the condition.

02	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.	Complied
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The project proponent has constituted an Environment Monitoring Cell in the hospital to monitor the implementation of all condition stipulated in the Environmental Clearance in the project site. Mr. Vinod Kumar K B is head of the Monitoring Cell.

03	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.	Complied
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The project proponent has constituted an Environment Monitoring Cell for monitoring of conditions laid down in the Environmental Clearance and implementation of EMP mentioned in the application of Environmental clearance. The project proponent has given responsibility to project manager to implement all measures mentioned in the EMP.

XI. Miscellaneous

01	The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.	Complied
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The project proponent has prominently advertised that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed. The notice was published in two local newspapers of the State, of which one was in the vernacular language and other in English within seven days. The copy of the notice published in English and Malayalam is attached as **Annexure No.9**.

02	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Complied
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The copy of Environmental Clearance has been submitted at Local Self Government, Kerala State pollution Control Board and other relevant Govt. Department for display the same for 30 days from the date of receipt.

03	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions. including results of monitored data on their website and update the same on half-yearly basis.	Complied
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The project proponent has been uploading the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data in our website and

updated the same on half-yearly basis. The website of the hospital is <https://www.rajagirihospital.com/Userfiles/RajagiriHospital/compliance-report.pdf>

04	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment. Forest and Climate Change at environment clearance portal.	Complied
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The project proponent has been regularly submitting the half yearly compliance report to the regional office of Ministry of Environment Forest and Climate Change, Bangalore through email in a PDF format.

05	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986. as amended subsequently and put on the website of the company.	Complied
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The project proponent has been regularly submitting the form V to the Kerala State Pollution Control Board. The copy of Form V is attached as **Annexure No.10**.

06	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Complied
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The project proponent has informed that the project proposal has got final approval of the project.

07	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Complied
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The project proponent is being adhered all stipulations made by the State Pollution Control Board and the State Government in their Consent to establish and Building permit.

08	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and that during their presentation to the Expert Appraisal Committee.	Complied
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The project proponent is scrupulously abide all the commitments and recommendations made in the EIA/EMP report and that during their presentation to the Expert Appraisal Committee.

09	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment. Forest and Climate Change (MoEF&CC).	Noted
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The instant project is an expansion of the existing hospital building. For further expansion beyond the scope of Environmental Clearance, the project proponent will obtain prior approval from the ministry of Environment Forest and Climate Change (MoEF&CC).

10	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted
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No data were concealed during appraisal of the project.

11	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
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12	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted
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The project proponent is willing to abide all conditions stipulate as additional conditions in its construction or operation phase.

13	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports	Noted
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The project proponent will extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports during their inspection or monitoring of the project.

14	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974. the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.	Complied
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The project proponent is being followed the relevant provisions of all Acts and Rules in connection with the project. The project proponent is also follows the conditions stipulated in the Environment Clearance order.

15	Any appeal against this EC shall lie with the National Green Tribunal. if preferred. within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted
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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
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Compliance:

The project proponent has submitted the copy of Environmental clearance to State Pollution control Board, district industries center and collectors office.

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
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The project proponent is keeping a separate account for funds earmarked for environmental protection measures and not diverted for other purpose. As part of environmental protection measures, the project proponent constructed RWH structure, STP, greenbelt, fire fighting structures etc. The monitoring of Air, Noise, water and treated water from STP is regularly conducted.

03	Officials from the Regional Office of MoEF & CC, Chennai who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents/data by the project proponents during their inspection. A complete set of all the documents submitted to MoEF&CC shall be forwarded to the APCCF, Regional Office of MoEF&CC, Chennai.	Noted
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The project proponent assures to execute all possible measures for environment protection. The project proponent is keeping a file for MoEF & CC and environmental conservation activities. The project will extend all support 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
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The project proponent obtained fresh approval from the ministry for the expansion of existing hospital. The construction of building is under progress.

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

Details of obtained approvals and licenses

Annex. No.	Name of approvals
1	Consent to Establish - Kerala State Pollution Control Board
2	Consent to operate - Kerala State Pollution Control Board

3	Structural stability
4	Building Permit – Grama Panchayath
4A	Building permit– Grama Panchayath
5	NOC - Fire and Rescue Services Dept., Govt. of Kerala
5A	NOC - Fire and Rescue Services Dept., Govt. of Kerala
6	Environmental Clearance - State Environmental Impact Assessment Authority
7	Ownership Certificate

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
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08	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 Regional Office of this Ministry at Chennai.	Noted
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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.

09	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.	Complied
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10	A copy of the clearance letter shall be sent by the proponent to concerned panchayath, ZillaParished/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.	Noted
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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; SPM, RSPM, SO ₂ , NO _x (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
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The project proponent uploaded the compliance report in the website. The report is being sent to regional office of MoEF & CC and SPCB. Critical sectoral parameters are being displayed at a convenient location near the main gate of the company. The results of Monitored data are attached as **Annexure No. 11 to 15**.

12	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.	
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The project proponent has prepared and submitted form V to the State Pollution Control Board. The copy of Form V is attached as Annexure No.10.

ANNEXURE

AnnexureNo.1

FILE NO. :PCB/HO/EKM/ICE/510/2011

Date of issue :20/02/2018



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. :5745584

Dated:18-01-2018

TO

M/s RAJAGIRI HEALTHCARE AND EDUCATION TRUST

Rajagiri Hospital,Chunangamvely,

Aluva,Ernakulam Dist-683112.

Consent No. :PCB/HO/EE2/EKM-1/ICE-EXP/04/2018

Valid Upto :31/12/2022

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	31/12/2022
2	Name and Address of the establishment	RAJAGIRI HEALTHCARE AND EDUCATION TRUST RAJAGIRI HOSPITAL, CHUNANGAMVELY, ALUVA, ERN AKULAM DIST 683112
3	Communication	Telephone :0484-6655000 Fax :0484-6655944 E-mail:mail@rajagirihospital.com
4	Occupier Details	Fr.Johnson Vazhappilly CMI, Rajagiri Hospital, Chunangamvely, Aluva
5	Local Body	Edathala
6	Survey Number	134
7	Village	Aluva East
8	Taluk	ALUVA
9	District	Ernakulam i
10	Capital Investment(Rs in Lakhs)	4553.42 Rs in Lakhs
11	Scale	Large
12	Category	RED
13	Annual fee(Rs)	Rs.181500/-
	Total Fee remitted(Rs)	Rs.907950/- (for 5 years)
14	Activity	Exapnsion of existing 530 bedded hospital with additional 120 beds, two numbers of DG set -1250 KVA.
15	Mode of disposal of Bio Medical Waste	IMAGE

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 : 54000 l/d
- 2.3 Effluent Generation : 43200 l/d
- 2.4 The characteristics of effluent after treatment shall confirm to the following tolerance limits:

Sl.NO.	Characteristics	Unit	Tolerance Limits	
			Irrigation/ Soak pit	Flushing/ Gardening/ Reuse
1	pH	-	-	6.5-9.0
2	BOD	mg/l	-	30
3	TSS	mg/l	-	<100
4	Fecal coliform	mg/l	-	<1000
5	Bio assay test	-	-	90% survival of fish in 100% treated effluent

- 2.5 Mode of disposal of treated effluent : Treated water will be reused to the maximum and balance to soakpit,after achieving above standards as per the notification no.G.S.R.1265(E) dated 13/10/2017.

3. CONDITIONS AS PER

The Air(Prevention and Control of Pollution)Act, 1981

- 3.1 Adequate air pollution control measures shall be provided before commissioning of the industry. Additional facilities required, if any, to achieve the standards laid down by the Board shall also be made along with.

Stack No.	Sources of Emission	Emission Rate(Nm ³ /Hr)	Stack Height above		Control Equipment
			Ground Level	Roof Level	
1	1250 KVA DG SET(2 nos)	-	35.3 m	7 m	Acoustic Enclosure

- 3.2 Emission characteristics shall not exceed the following:

Sl.No.	Parameter	Limiting Standards (mg/Nm ³)
1	As per EP rule	

4. CONDITIONS AS PER

The Environment (Protection) Act, 1986.

- 4.1 Bio-Medical waste shall be handled, stored and disposed off as per the Bio-Medical Waste Management Rules, 2016.
- 4.2 The construction activities shall be carried out strictly in compliance with the provisions of the Noise Pollution (Regulation and Control) Rules 2000.
- 4.3 Used lead acid batteries shall be disposed of as per the Batteries (Management and Handling) Rules, 2001
- 4.4 E-waste shall be disposed off safely as per the E-Waste (Management)Rules, 2016.

5. SPECIFIC CONDITIONS:

5.1 The location of buildings, effluent treatment plant and other structures shall be as per the approved drawing attached. No change or alteration of the above shall be made without the prior consent of the Board.

5.2. Natural drainage of the area shall be protected.

5.3. D. G. sets shall be placed at a minimum distance of square root (kVA/2) meter from nearest residence/worship places/other institutions (kVA is the capacity of D G set).

5.4. Waste water generated due to proposed expansion shall be treated in the existing 1000 KLD capacity sewage treatment plant.

6. CONDITIONS DURING CONSTRUCTION PHASE

6.1 Proper precautionary measures shall be provided during construction phase to minimize disturbance to neighbours and neighbouring properties due to excavation, piling, transportation of materials etc.

6.2 The construction debris and mud discharges etc from the construction site shall be disposed safely as per Construction and Demolition Waste Management Rules, 2016.

6.3 Water sprinklers shall be provided to suppress spreading of dust outside the premises during the construction phase.

6.4 Sanitation facilities shall be provided to the construction workers.

6.5 The sound level measured at 1 m outside the boundary of the premises shall not exceed the ambient sound level applicable to the adjoining area.

6.6 Ambient air quality shall not exceed the National Ambient Air Quality Standards.

6.7 All operations likely to produce dust or noise shall be carried out with appropriate enclosure.

6.8 Solid waste generated shall be handled and processed as per the provision of the Solid Waste Management Rules 2016.

7. GENERAL CONDITIONS

7.1 At the end of the validity period if the construction is in progress, the same shall be got renewed. If the construction is not started in the consent period, the applicant shall apply afresh for consent to establish.

7.2 The applicant shall comply with the instructions that the Board may issue from time to time regarding prevention and control of air, water, land and sound pollution.

7.3 The date of commissioning of the project shall be intimated at least one month in advance to the District Office of the Board.

7.4 Consent to Operate under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 shall be obtained by the occupier before commissioning the project.

7.5 A minimum set back as per Municipality Building Rule shall be provided between the boundary and the building and the set back can be utilised for the development of green belt.

7.6 Suitable species of trees and curtain plants shall be planted and maintained within and along the periphery of the premises, forming a green belt to improve the environment.

7.7 Arrangements for rain water harvesting shall be provided and maintained.

7.8 Adequate safety measures shall be provided in accordance with fire safety regulation.

7.9 Water & energy conservation measures shall be adopted. Renewable source of energy namely solar energy shall be utilized.

7.10 Environmental Clearance shall be obtained from the concerned authorities, if the built up area exceeds 20000 square metres.

K SAJEEVAN

Digitally signed by K SAJEEVAN
Date: 2018.02.20 14:38:22
+05'30'

DATE :20/02/2018

SIGNATURE & SEAL OF ISSUING AUTHORITY
CHAIRMAN



To

M/s Rajagiri Healthcare and Education
Trust, Rajagiri Hospital, Chunangamvely,
Aluva, Ernakulam Dist-683112.


Copy To

1. Environmental Engineer,
District Office-1, Ernakulam

Page5

Consent to establish from PCB

Annexure No.2



KERALA STATE POLLUTION CONTROL BOARD

FILE NO. :PCB/HO/EKM/ICE/510/2011
Date of issue :08/04/2022

INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No : PCB/HO/EKM-I/ICO-R/02/2022 Valid upto 31.03.2024

Ref : 1)Consent No: PCB/HO/EKM/ICO/02/2015 dated 02.02.2015 valid upto:31.12.2017
2)Consent No : PCB/HO/EEI/EKM-1/ICO-R/01/2018 Valid upto:31.12.2020

The 'Integrated Consent to Operate' issued as per reference above to M/s .Rajagiri Healthcare and Education Trust, Rajagiri Hospital, Chunangamvely, Aluva, Ernakulam Dist-683112, is hereby renewed up to 31/03/2024 and issued to M/s .Rajagiri Healthcare and Education Trust, Rajagiri Hospital, Chunangamvely, Aluva, Ernakulam Dist-683112. The consent(s)/ variation order(s) cited under reference are integral part of this renewal order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

I. GENERAL

S.No.	Items	Description
1	Validity	31.03.2024
2	Capital Investment	Rs.19983.92 lakh
3	Annual Fee	Rs.4,24,745/-
4	Fee remitted	Rs.21,23,725/-

II. Stack Details

Stack No.	Source of Emission	Emission Rate(Nm3/Hr)	Stack Height above		Control Equipment
			Ground Level(In Meters)	Roof Level(In Meters)	
As per previous consent					

III. CONDITIONS

1.2 For renewal of the consent in case of continuance of discharge/operation of the industry, application in the prescribed form shall be submitted through the web portal of the Board for Online Consent

Page1

Management & Monitoring System 2 months prior to the date of expiry. Late application will be accepted only with fine.

1.3 This consent is granted subject to the power of the Board to review and make variation in or revoke any of the conditions as the Board deems fit as per the relevant Acts/Rules.

1.4 The applicant shall comply with the instructions that the Board may issue from time to time regarding prevention and control of air, water, land and sound pollution

1.5 Arrangements for collection, segregation, storage, handling and disposal of solid Waste including garbage shall be provided and maintained properly.

1.6 This consent is issued based on the affidavit submitted by the Occupier of the unit, if the statement found false this consent will be cancelled without any notice.

All other conditions of the Integrated Consent to Operate issued as per reference above remain unchanged.

A B Pradeep Kumar

Digitally signed by A B Pradeep Kumar
Date: 2022.04.08 14:17:17 +05'30'

DATE :08/04/2022

SIGNATURE & SEAL OF ISSUING AUTHORITY
CHAIRMAN



To

Rajagiri Healthcare and Education Trust,
Rajagiri Hospital,
Chunangamvely,
Aluva,
Ernakulam Dist-683112

1. This digitally signed document is legally valid as per the Information Technology Act 2000

2. For verifying this document please go to krocmms.nic.in and search using date of issue/name of the unit/Application Number in "Consent Granted Applications" link in the home page of the Board's Online Consent Management and Monitoring System.

Page2

Consent to Operate

Annexure No.3**ALEX JACOB**

B.E., M.Tech., Dip. Bdg. Sc., M.I.E. (Aust) M.I.E. (Ind)

CONSULTING ENGINEERPhone { Off : 044-2491 0945
044-2446 4478
Mob : +91-8840159550

E-mail : alexjacobuc@gmail.com

alexjacob@unitedconsultants.in

41/A, Beach Road, Kalakshetra Colony, Besant Nagar, Chennai - 600 090.

Web : www.unitedconsultants.in

15.10.2014

STABILITY CERTIFICATE

This is to certify that the structural design for Hospital Complex having Three Basement and Ground Floor + 7 Floors at Edathala Panchayath, Aluva, Ernakulam on Survey No.134 for Rajagiri Healthcare and Education Trust, Aluva has been prepared by me and is structurally stable.

Further certified that the designs confirm to Bureau of Indian Standards and also certified that, the design is done for the dead and live loads as per ISI as well as for the wind load as per IS:875 and seismic loads (Zone III) as per IS: 1893.

The Building work is completed.

The Building will be sound and stable when used for the purpose for which it is designed.

(ALEX JACOB)
Structural Engineer
ALEX JACOB
B.E., M.Tech., Dip. Bdg. Sc., M.I.E. (Aust)
CONSULTING ENGINEER
41/A BEACH ROAD,
KALAKSHETRA COLONY,
CHENNAI - 600 090.
CLASS I. L. S. No.433

Structural Stability Certificate

Annexure No. 4

APPENDIX C
[See Rule 11(3)]

BUILDING PERMIT

EDATHALA GRAMA PANCHAYAT

NO: BP 89/11 FOR NO:964/11 Dated :17/06/2011


Ref:- Application dated 27/01/2011 from Sri/Smt. PRESIDENT, RAJGIRI HEALTH CARE AND EDUCATIONAL TRUST, Permission is granted for the erection of building (New construction) in building No ...Or near the building No:.....inSureveyNo:.... 275/9,10,11,16,17,19, 277/10,11,12,14... Village... Aluvaeast.... Taluk... Aluva.... District..... Ernakulam ..for.... Hospital(Group-C) only(specify the occupancy) purpose, subject to the conditions stated below:

- (1) KPBR-2011
- (2) Lease Agreement No: 72/11 dtd.07/01/2011
- (3) Proceedings No: C1/3015/11/d.dis. dtd.04/05/2011 of Chief Town Planer, TVM.
- (4) Fire and PCB NOC should be produced within Three months from the date of permit

Plinth area of the building is as follows.

1	Cellar Floor -2	1081.25 M2	5	First Floor	4463.78 M2
2	Cellar Floor -1	2768.69 M2	6	Second Floor	4311.72 M2
3	Basement Floor	4867.83 M2	7	Typical Floor (3 rd to 7 th Floor-5(Nos)	21312.85 M2
4	Ground Floor	6587.22 M2	8	HeadRoom	632.12 M2
Total					46025.46 M2

Place: Edathala
Date: :17/06/2011

(seal) 

C S Sosamma
Secretary
EDATHALA GRAMA PANCHAYAT
Signature and Name of Secretary



Notes:- 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, affixed 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 the prevailing permit fee.

4. The permits issued under the Kerala Building Rules, 1984 and remaining valid 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.

Renewed and Valid upto
16/06/2017 as per Appl. dtd 22/7/14
and ref - 11/8/2014

U. ABDUL HAKKEEM
SECRETARY
EDATHALA GRAMA PANCHAYAT
ERNAKULAM DISTRICT
0484 - 2837132

Building Permit

AnnexureNo.4A



[11(3)]
G.O.(M.S) No.41/11/LSGD Dated 14/2/2011
REVISED BUILDING PERMIT
EDATHALA GRAMA PANCHAYAT

NO. BP -590/19

A5 :7822/19

DATED :09/03/2020

Ref:Application dated 16/08/19 from Sri/Smt RAJAGIRI HEALTHCARE AND EDUCATION TRUST ,RAJAGIRI HOSPITAL,PHASE-2,CHUNANGAMVELY. Permission Is granted for the erection of building () in Building No/Or.. WARD..4 BL..35 in Re.Survey No.134,134/2 ALUVA EAST village.. Taluk Aluva..... District Ernakulam For HOSPITAL BUILDING Only (Group-C) purpose,subject to the conditions stated below

- 1) നിർദ്ദിഷ്ട നിർമ്മാണം കെ പി ബി ആർ 2011 ന് വിധേയമായിരിക്കേണ്ടതാണ്.
- 2) ഈ പെർമിറ്റിന്റെ കാലാവധി **08/03/2023** വരെയാണ് *Validity of Permit Renewed to 9 years further period of five years from 09/3/2023 to 08/03/2028*
- 3) അംഗീകരിച്ച പ്ലാനും നിലവിലുള്ള നിയമ വ്യവസ്ഥകളും പാലിച്ചു മാത്രമേ കെട്ടിട നിർമ്മാണം നടത്താൻ പാടുള്ളൂ.ആയതിന് ഉടമസ്ഥനും ലൈസൻസ്ഡ് എഞ്ചിനീയർക്കും ഒരു പോലെ ഉത്തരവാദിത്വമുണ്ട്. നിയമവിരുദ്ധമായ നിർമ്മാണത്തിന് ലൈസൻസ്ഡ് എഞ്ചിനീയർ ഉത്തരവാദിയായിരിക്കുന്നതാണ്.
- 4) അംഗീകരിച്ച പ്ലാനിൽ നിന്നും വ്യതിചലിച്ച് കെട്ടിട നിർമ്മാണം അനുവദിക്കുന്നതിന് ആയതിന് റിവൈസ്ഡ് പെർമിറ്റിനായി അപേക്ഷിച്ചിട്ടുവരികെ, അനുമതി വാങ്ങേണ്ടതാണ്.
- 5) നിർദ്ദിഷ്ടനിർമ്മാണ സ്ഥലത്ത് ആവശ്യമായ സുരക്ഷാ ക്രമീകരണങ്ങൾ ഏർപ്പെടുത്തേണ്ടത് ഉടമയുടെ ബാധ്യതയാണ്. നിർമ്മാണ സ്ഥലത്ത് അംഗീകരിച്ച പ്ലാൻ, പെർമിറ്റിന് എന്നിവ സൂക്ഷിക്കേണ്ടതും പരിശോധനയ്ക്ക് ഹാജരാക്കേണ്ടതുമാണ്.
- 6) നിയമാനുസൃത മാലിന്യ സംസ്കരണ സംവിധാനം സ്വന്തം നിലയിൽ സജ്ജീകരിക്കേണം
- 7) നിശ്ചിത സ്പെസിഫിക്കേഷനോടു കൂടിയ സെപ്റ്റിക് ടാങ്ക് മാത്രമേ നിർമ്മിക്കാവൂ.കെട്ടിട നിർമ്മാണ പരിശോധന നടത്തിയ ശേഷം മാത്രമേ സെപ്റ്റിക് ടാങ്ക് സ്റ്റാമ്പ് ഇട്ടു മുദ്രവാൻ പാടുള്ളൂ
- 8) എല്ലാവിധ ചരദ്രവ മാലിന്യങ്ങളും സംസ്കരിക്കുന്നതിനുള്ള സംവിധാനം അപേക്ഷകൻ സ്വന്തം സ്ഥലത്ത് സ്വന്തംചെലവിൽ സജ്ജീകരിക്കേണ്ടതാണ്.
- 9) കെപിബിആർ നൂൾ പ്രകാരം മഴ വെള്ള സംഭരണി ഉണ്ടായിരിക്കേണ്ടതാണ് .

Plinth Area

B/ Floor	: 2622.49 M2
G/Floor	: 2399.66M2
F/Floor	: 2727.42M2
S/Floor	: 2524.10M2
T/Floor	: 2152.88M2
F/Floor	: 2119.56M2
F/Floor	: 2119.56M2
S/Floor	: 2119.56M2
Head Room	: 255.03m2
Total	:19040.26M2

Place :Edathala
Date: 09/03/2020



A/Hithi Devi
ATHITHI DEVI, D
Secretary
Edathala Grama Panchayat

Building Permit

Annexure No.5

DFOEKM/127/2024-G



O/o District Fire Officer
Fire & Rescue Services
Ernakulam Date :15.01.2024

NO-OBJECTION CERTIFICATE
[RENEWAL]

The Board headed by the Station Officer, Fire & Rescue Station, Aluva, Ernakulam has inspected the Hospital Building, (B3+B2+B1+G+7)11 storied with a height of 29.10 meters in Survey number 134 in Aluva East Village in Ernakulam District under Edathala Grama Panchayath on 08.01.2024 owned by M/s Rajagiri Health Care & Education Trust, S.H. Provincial House, Rajagiri, Kalamassery and recommended to renew No Objection Certificate No: G1-17457/2014 Dated: 30/12/2014 of The commandant General Fire And Rescue Services, Thiruvananthapuram as per report No.C-35/2024 dated 08.01.2024 of the Station Officer Fire & Rescue Station Aluva, for one year.

(2) In the circumstances, this No Objection Certificate is issued under my seal and authority for the continued occupation of the above. No further construction will be allowed in the vacant spaces provided in the approved plan.

(3) This certificate is issued on the condition that the fire fighting systems installed will be kept always functional and the owner of the building should take special care to maintain the systems installed in proper working condition. This certificate is valid for one year from the date of issue. After one year the certificate must be renewed. Non-renewal of the certificate within the time limit will result in loss of eligibility for insurance coverage and appropriate legal action by the local self Government/ Revenue department. All officers of and above the rank of Station Officers of the Fire & Rescue Services Department will have the right to inspect the building on any day/time after serving 7 days notice to ensure that the installed systems are in good working condition.

To: 1. The Secretary, **Edathala Grama Panchayath**
2. Station Officer, Fire & Rescue Station **Aluva**
3. Applicant.




District Fire Officer
Fire & Rescue Services
Ernakulam-682020

NOC – Fire & Rescue

Annexure No.5A

DFOEKM/4010/2023-G




O/o District Fire Officer
Fire & Rescue Services
Ernakulam Date : 31.10.2023

NO-OBJECTION CERTIFICATE
[RENEWAL]


The Board headed by The Station Officer, Fire & Rescue Station, Aluva, Ernakulam has inspected the Institutional Building (LG3+LG2+LG1+G+3) 7 storeyed, with a height of 26.6 meters and with a total plinth area of 16920.70m² in Survey number 134,134/2 in Aluva East Village in Ernakulam District under Edathala Grama Panchayat on 26.10.2023 owned by Rajagiri Health Care & Educational Trust, S.H Provincial House, Rajagiri, Kalamassery, Ernakulam -683104 and recommended to renew No Objection Certificate No: FRS/07/ALV/6655/2022/FINAL Dated: 03.11.2022 of The Director General, Fire & Rescue Services, Thiruvananthapuram for the occupation of the said building as per report No. C-1069/2023 Dated 26.10.2023 of The Station Officer Fire & Rescue Station Aluva for one year.

(2) In the circumstances, this No Objection Certificate is issued under my seal and authority for the continued occupation of the above. No further construction will be allowed in the vacant spaces provided in the approved plan.

(3) This certificate is issued on the condition that the fire fighting systems installed will be kept always functional and the owner of the building should take special care to maintain the systems installed in proper working condition. This certificate is valid for one year from the date of issue. After one year the certificate must be renewed. Non-renewal of the certificate within the time limit will result in loss of eligibility for insurance coverage and appropriate legal action by the local self Government/ Revenue department. All officers of and above the rank of Station Officers of the Fire & Rescue Services Department will have the right to inspect the building on any day/time after serving 7 days notice to ensure that the installed systems are in good working condition.



To: 1. The Secretary, Edathala Grama Panchayat.
2. The Station Officer, Fire & Rescue Station, Aluva
3. Applicant


District Fire Officer
Fire & Rescue Services
Ernakulam-682020

NOC – Fire & Rescue

Annexure No.6

F.No.21-12/2018-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: 19th July, 2019

To,

Shri Johnson
M/s Rajagiri Healthcare and Education Trust,
Rajagiri Healthcare & Education Trust, Chunangamvely, Aluva,
Ernakulam District, Kerala-683112
E Mail: meddir@rajagirihospital.com

Subject: Expansion of existing Hospital cum Residential Project at Sy. Nos. 2140/73, 936/1/46, 939/1/45 (New Re-survey No. 134) of Edathala Village, Aluva Taluk, Ernakulam District, Kerala by M/s Rajagiri Healthcare and Education Trust - Environmental Clearance - reg.

Sir,

This has reference to your online proposal No. IA/KL/NCP/72004/2018 dated 26th 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 'Expansion of existing Hospital cum Residential Project at Sy. Nos. 2140/73, 936/1/46, 939/1/45 (New Re-survey No. 134) of Edathala Village, Aluva Taluk, Ernakulam District, Kerala by M/s Rajagiri Healthcare and Education Trust was considered by the Expert Appraisal Committee (Infra-2) in its 32nd meeting held during 2-4 July, 2018, 36th meeting held during 26-28 November, 2018 (not attended by the project proponent) and 41st meeting held during 27-29 May, 2019. 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 10°5'21.22"N to 10°5'9.84"N (Latitude) and 76°23'32.09"E to 76°23'9.31"E (Longitude).
- (ii) The project is Expansion of Existing hospital complex project. The existing hospital project has accorded with Environmental Clearance vide Order No. 21-5/2011-IA.III dated 14.06.2011 from MoEF for built-up area of 61,025.46 sqm & plot area of 9.238 ha.
- (iii) The total plot area is 12.2069 ha, FSI area is 2,98,667.44 sqm and total construction (built-up) area of 4,20,309.25 sqm. The project will comprise of 1,560 bedded Hospital, Medical college, Teaching hospital, Nurses quarters, Hostel, accommodation facility for patient relative, parking block, services block, Nursing college, Dental College & Commercial building & supporting infrastructure facilities shall be developed. Maximum height of the building is 61.50 m.
- (iv) During construction phase, total water requirement is expected to be 81 KLD which will be met by stored rain water in pond / tanks water for construction and / Ground water 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.

Proposal No. IA/KL/NCP/72004/2018

J. Anand

Page 1 of 12

- (v) During operational phase, total water demand of the project is expected to be 1613 KLD (which includes fresh water 830 KLD from Kerala Water Authority/Rain water and 783 KLD Recycled Water (702 KLD STP treated water and 81 KLD ETP treated water). Wastewater generated (780 KLD) uses will be treated in STP of total 936 KLD capacity. 702 KLD of treated wastewater will be recycled (245 KLD for flushing, 50 KLD for gardening & 150 KLD for boiler req. and 257 KLD for makeup water req. for cooling towers attached with HVAC system. No treated / untreated water will be disposed in to municipal drain.
- (vi) About 3.231 TPD solid wastes will be generated in the project. The biodegradable waste (2.423 TPD) will be processed in bio-gas generation unit / bio bin system and the non-biodegradable waste generated (0.808 TPD) will be handed over to authorized local vendor.
- (vii) The total power requirement during operation phase is 10 MVA and will be met from Kerala State Electricity Board & DG Sets (standby) and total power requirement during construction phase is 0.5 MVA and will be met from Kerala State Electricity Board & DG Sets (standby).
- (viii) Rooftop rainwater of buildings will be collected in RWH tanks and pond with appropriate capacity for harvesting after filtration.
- (ix) Parking facility for 3,828 Cars + 4,126 Two wheelers is proposed to be provided against the requirement of 3,579 Cars + 3,808 two wheelers respectively (according to local norms).
- (x) Proposed energy saving measures would save about 22.5% of power.
- (xi) No Eco Sensitive area is located within 10 km radius.
- (xii) There is no court case pending against the project.
- (xiii) ToR for the project was granted by MoEFCC vide letter F.No. 21-12/2018-IA-III dated 24.05.2018.
- (xiv) Investment / Cost of the project is Rs. 1,500 Crores.
- (xv) Employment potential about 5,382 jobs.
- (xvi) Benefits of the project: 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. Improvement of medical health facilities in the district & the State.

3. The project/activity is covered under item 8(b) 'Township and Area Development' 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 has been appraised at Central level by sectoral EAC.

4. The proposal was considered by EAC (Infra-2) in its 32nd meeting held during 2-4 July, 2018. During deliberation the project proponent informed that M/s Rajagiri Hospital (a unit of Rajagiri Healthcare and Education Trust) is an initiative from the Rajagiri (CMI) group of institutions based in State of Kerala (India) to provide "State of the Art" healthcare services. The existing hospital project has accorded with Environmental Clearance vide Order No. 21-5/2011-IA.III dated 14.06.2011 from MoEF for built-up area of 61,025.46 sqm & plot area of 9.238 ha with 500 beds of hospital, 50 residential units for doctors, 60 rooms and 200 rooms for hostel. The

construction of all the buildings as per Environmental Clearance has been completed and occupied. The six monthly compliance report as per EC conditions is submitted regularly to the Regional Office of MoEF&CC at Bangalore. The present proposal is for expansion of the existing hospital and residential unit with cumulative built-up area of 4,20,309.25 sqm and with plot area of 12.2069 ha.

As per the monitoring report issued by Regional Office (SZ), Bangalore vide letter dated 10.01.2018 the observations were as follows:

"PA has modified the plans and constructed additional four floors in Hostel. The total built up area as per completion is 59,574.86 sqm. The built-up area permitted by the Grama Panchayat is 56,996.69 sqm. However, it is within the built-up area of 61,025.46 sqm, permitted in the EC. PA has been advised to inform the changes to the IA-III Division of Ministry as well as get revised permit from the Panchayat".

5. In view of observation of Regional Office (SZ), Bangalore vide letter dated 10.01.2018 stated above and observation of EAC (Infra-2) in its 32nd meeting held during 2-4 July, 2018, the project proponent has again approached to Regional Office (SZ), Bangalore with action taken report. Accordingly, Regional Office, Bangalore vide letter dated 11.03.2019 inter-alia informed that:-

".....As regard the revised building permit, the PA informed that as per the prevailing regulations in Kerala, fee for regularization of 2577.90 sqm additional construction area has been paid and obtained completion/ occupancy certificate. Thus the PA has complied with the remarks / observations made in the MR and hence the compliance to the EC conditions is Satisfactory".

6. The EAC deliberated upon the information submitted and clarifications provided by the Project Proponent and submission of Regional Office, MoEFCC at Bangalore in its 41st meeting held during 27-29 May, 2019. EAC noted that the total built-up constructed by the project proponent is well within the built-up area granted in earlier EC, however project proponent has constructed more than built-up area as sanctioned by the Gram Panchayat for which they have obtained revised permit from the Panchayat.

The EAC, based on the information submitted and clarifications provided by the Project Proponent and detailed discussions held on all the issues, recommended the project for grant of environmental clearance with stipulated specific conditions along with other Standard EC Conditions as specified by the Ministry vide OM dated 4th January, 2019 for the said project/activity, while considering for accord of environmental clearance. As per recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the project 'Expansion of existing Hospital cum Residential Project' at Sy. Nos. 2140/73, 936/1/46, 939/1/45 (New Re-survey No. 134) of Edathala Village, Aluva Taluk, Ernakulam District, Kerala by M/s Rajagiri Healthcare and Education Trust, under the provisions of the EIA Notification, 2006 and amendments/circulars issued thereon, and subject to the specific and general conditions as under:-

A. Specific Conditions:

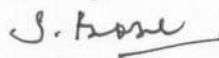
- (i) Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.

J. Prasad

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- (ii) The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc as per National Building Code including protection measures from lightening etc.
- (iii) The project proponent shall obtain 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.
- (iv) Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
- (v) Fresh water requirement from Kerala Water Authority/Rain water shall not exceed 830 KLD.
- (vi) A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
- (vii) 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.
- (viii) 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, boiler req. and excess for makeup water requirement for cooling towers attached with HVAC system. As proposed, no treated water shall be discharged to Municipal drain.
- (ix) 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. As proposed two rain water harvesting tanks shall be provided for harvesting after filtration.
- (x) 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.
- (xi) 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.
- (xii) 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.
- (xiii) Laboratory wastes shall be managed in accordance to the BMW Rules, 2016 and the atomic Energy Commission regulations as applicable.



- (xiv) 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 02 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 02 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.
- (xv) 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). As proposed, 70,589.71 sqm (57.82%) area shall be provided for green area development.
- (xvi) The company shall draw up and implement corporate social Responsibility plan as per the Company's Act of 2013.
- (xvii) 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. 3.75 Crore (@0.25% of project Cost) shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as Promotion of Education, Health & Medical care, Solid Waste Management Facility, Rain water harvesting and Avenue Plantation 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.

B. Standard Conditions:

I. Statutory compliance:

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1980, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.
- iv. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- v. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department

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shall be obtained, as applicable, by project proponents from the respective competent authorities.

- vi. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
- vii. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.

II. Air quality monitoring and preservation

- i. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
- ii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5}) covering upwind and downwind directions during the construction period.
- iii. Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
- iv. 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.
- v. Sand, murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
- vi. Wet jet shall be provided for grinding and stone cutting.
- vii. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
- viii. 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 Management Rules, 2016.
- ix. 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.
- x. 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.

J. Bose

- xi. For indoor air quality the ventilation provisions as per National Building Code of India.

III. Water quality monitoring and preservation

- i. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.
- ii. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
- iii. Total fresh water use shall not exceed the proposed requirement as provided in the project details.
- iv. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
- v. 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.
- vi. 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.
- vii. 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.
- viii. 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.
- ix. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- x. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.
- xi. All recharge should be limited to shallow aquifer.
- xii. No ground water shall be used during construction phase of the project.
- xiii. 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.
- xiv. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by

S. Rose

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the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.

- xv. No sewage or untreated effluent water would be discharged through storm water drains.
- xvi. Onsite sewage treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.
- xvii. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
- xviii. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

IV. Noise monitoring and prevention

- i. Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.
- ii. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- iii. Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

V. Energy Conservation measures

- i. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
- ii. Outdoor and common area lighting shall be LED.
- iii. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
- iv. Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.

S. Rane

- v. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.
- vi. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

VI. Waste Management

- i. 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.
- ii. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.
- iii. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
- iv. 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.
- v. 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.
- vi. 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.
- vii. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.
- viii. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

VII. Green Cover

- i. 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.

VIII. Transport

- i. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for

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environment, and safety of users. The road system can be designed with these basic criteria.

- a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
 - b. Traffic calming measures.
 - c. Proper design of entry and exit points.
 - d. Parking norms as per local regulation.
- ii. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.

IX. Human health issues

- i. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
- ii. For indoor air quality the ventilation provisions as per National Building Code of India.
- iii. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- iv. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- v. Occupational health surveillance of the workers shall be done on a regular basis.
- vi. A First Aid Room shall be provided in the project both during construction and operations of the project.

X. Corporate Environment Responsibility

- i. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- ii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
- iii. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of

S. Rose

action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.

XI. Miscellaneous

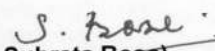
- i. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- v. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vi. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- vii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- viii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and that during their presentation to the Expert Appraisal Committee.
- ix. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change (MoEF&CC).
- x. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xi. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiii. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.

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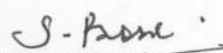
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- xiv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
- xv. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
7. This issues with the approval of the Competent Authority.


(Dr. Subrata Bose)
Scientist F

Copy to:

- 1) The Secretary, Department of Environment, Government of Kerala, Thiruvananthapuram.
- 2) Chief Conservator of Forests and Member Secretary, Kerala CZMA, Science & Technology (A) Department, Sasthra Bhavan, Pattom, Thiruvananthapuram-4.
- 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.
- 6) Guard File, Monitoring File.
- 7) MoEF&CC website.


(Dr. Subrata Bose)
Scientist F

Copy of EC order

Annexure No.7


എടത്തല ഗ്രാമപഞ്ചായത്ത്
 എടത്തല നോർത്ത് പി.ഒ., ആലുവ-683 564
 ഫോൺ : 0484-2837132
 E-mail: edathalagp@gmail.com

താമസ/ഉടമസ്ഥാവകാശ സാക്ഷ്യപത്രം

നമ്പർ : B3-7684/21 തീയതി : 10/09/2021

ഈ ഗ്രാമപഞ്ചായത്തിലെ 2021-22 വർഷത്തെ വസ്തുനികുതി നിർണ്ണയ രജിസ്റ്റർ പ്രകാരം ശ്രീ/ശ്രീമതി രാജഗിരി മഹാൻത്ത് മൈൽ ടി
എഡ്വൈക്കേമെന്റൽ ട്രസ്റ്റ്, ചെന്നൈ-600014 എന്നയാൾ
IV / 600014 നമ്പർ കെട്ടിടത്തിന്റെ ഉടമസ്ഥനാണ് /
 ടി കെട്ടിടത്തിലെ താമസക്കാരനാണ് എന്ന് സാക്ഷ്യപ്പെടുത്തുന്നു. ടിയാന്റെ ആവശ്യ പ്രകാരം റേഷൻകാർഡ് ലഭ്യമാക്കുന്നതിന് / വാട്ടർ കണക്ഷൻ അപേക്ഷിക്കുന്നതിന് / ഗ്യാസ് കണക്ഷൻ അപേക്ഷിക്കുന്നതിന് / വൈദ്യുതി കണക്ഷൻ അപേക്ഷിക്കുന്നതിന് / പാസ് പോർട്ടിന് അപേക്ഷിക്കുന്നതിന് / വോട്ടർ പട്ടികയിൽ പേര് ചേർക്കുന്നതിന് ആണ് ഈ സാക്ഷ്യപത്രം നൽകുന്നത്.

സെക്രട്ടറി
 SECRETARY
 Edathala Grama Panchayath
 Edathala North P.O., Aluva (Via)
 Ernakulam Dist. Pin : 683 561
 (ഒപ്പ്, സീൽ)

ശ്രീ/ശ്രീമതി _____

Copy of Ownership Certificate

Annexure No.8**No.of Trees / Samplings planted in 2023****(Period : April 2023 to September 2023)**

Shrubs		
Bougainvillea	nos	25
Pentanus	nos	50
Shelfeera	nos	12
Exocaria	nos	20
Neam	nos	20
Pappaya	nos	10
Malpighia	nos	20
China doll plant	nos	18
Trees		
Burba	nos	2
Jack fruit varieties	nos	12
Mango trees	nos	4
Guava	nos	4
Mangostin	nos	2
Youfineia	nos	10
Kadamba Tree	nos	3
DVDV plant	nos	10
Kunthirikkum plant -Indian frankincense	nos	2
Rambutan	nos	4
Abiu tree	nos	4
Rubber plant	nos	1

Saplings planted from 2023 October to 2024 March

Shrubs	
Bougainvillea	150
Trees	
Jack fruit varieties	15
Abiu tree	4
DVDV plant	12
Kadamba Tree	4
Mango trees	8
Athi	1
Chempaka -tree Magnolia champaca	10
Coconut trees(Dwarf variety)	8
Jamaican milk fruit	1
Tai -champa -red	8
Malayan champa	8
Guava	15
Luvi	2
Mangostin	8
Youfineia	1
Sapota	5
Black Jamun Fruit (Njaval Pazham) Plant	15
Pistha	12
Ilanji	12
Total	149

No. Of Trees / Samplings planted in 2024
(Period : January 2024 to December 2024)

SHRUBS	
Boungainvilla	60 nos
Pentanus	30 nos
Shefleera	15 nos
Exocaria	25 nos
Neam	08 nos
Pappaya	08 nos
Malpighia	60 nos
China doll plant	65 nos
TREES	
Burba	6 nos
Jack fruit varieties	18 nos
Mango trees	6 nos
Guava	4 nos
Mangostin	2 nos
Yougineia	22 nos
Kadamba tree	16 nos
DVDV plant	2 nos
Kunthirikam plant	10 nos
Rambutan	5 nos
Abiu tree	4 nos
Rubber plant	2 nos
coconut	12 nos
chethi	20nos
Bamboo	16 nos
Wild jasmine	6 nos



Copy of tree saplings planted

Annexure No.9



POST OF THE DAY



A true gem of the Indian Cinema!
Happy Birthday Amitabh Bachchan ji. Love and prayers
— Mohanlal, actor

newindianexpress.com

Returnees caught in no man's land

May play spoilsport | NORKA-Roots says it has launched initiatives to help NRKs

4 lakh

non-resident Keralites returned from West Asia after the global economy tanked due to the Covid-19 pandemic

lakh for new businesses, by tying up with 15 public sector and cooperative banks.

"We provide a maximum of ₹3 lakh as capital subsidy and 3 per cent interest rate deduction for four years," Namboothiri said, adding that the government is expanding the scope of the support programme for foreign returnees to help them set up IT ventures and startups through mentoring, funding and market access initiatives.

Meanwhile, the huge number of NRI returnees is a big worry for the state, as remittances account for nearly a third of its economy. According to World Bank, Kerala received \$18 billion (nearly ₹1.3 lakh crore) in remittances in 2019. This year, the World Bank expects remittances to fall by 20 per cent due to the pandemic and the overall contraction in global economy.

Chanson Alexander, 52, who returned after working in Saudi Arabia for about 25 years, said he is planning to settle down in Kerala. His father V M Chandy was among the first set of emigrants from Kerala who went to the Gulf during the 1950s. Chandy returned in the 1970s to set up his film production company Jolly Films, which produced big hits such as 'Padma Vyuham' and 'Picnic'. "I am not going back," says Alexander, who can depend on his savings and farming.

Seby said he will return to the Gulf if things do not work out here. "I may not get the salary I drew earlier. I may return to the Gulf if things do not go as per plan here," he said.

Trump 'devotee' dies of heart attack

EXPRESS NEWS SERVICE
@ Medak

HEARTBROKEN by the news of his hero and US President Donald Trump getting infected by Covid-19, his fan Busu Krishna died of cardiac arrest at Tupran in Medak district on Sunday afternoon.

An ardent fan of Trump, the 33-year-old Krishna, who hails from Konne village in Bastanpet Mandal of Jangaon district, had built a temple for Donald Trump, spending ₹14 lakh from his own pocket.

He used to perform puja to Trump's statue in the temple everyday, but moved to Tupran in March, when the lockdown was imposed, to live with his relatives. He also bought house in Tupran.

According to his relatives, Krishna went into some kind of depression and used to cry despite being told that Trump was recovering from the virus.

His uncle B Ashok said that Krishna died of cardiac arrest.

Referring to this year's Trump's visit, he said: "When Trump came to India, Krishna went to Gujarat and tried to meet him. He spent ₹80,000 for his visit but the security personnel did not allow him to go anywhere near the US President."

Holiday for schools in K'taka

Bengaluru: With growing concerns over the Covid-19 surge in the state, the Education Department has announced mid-term holidays for three weeks from October 12 to 30. Even teachers will be given leave during the period. The order applies to online classes as well. This effectively means that a decision on reopening schools is deferred until after October 30. Chief Minister B S Yediyurappa on Sunday ordered a three-week holiday for schools in the state from October 12. The holidays are applicable to government-run, aided and unaided private schools, according to department officials. The Education Department also suspended the Vidyagama project on Saturday until further notice.

NOTICE

This is to inform to the General Public that, the proposed construction of expansion of existing Hospital cum Residential Project at Sy. Nos. 2140/73, 936/1/46, 939/1/45 (New Re-Survey No. 134) of Edathala Village, Aluva Taluk, Ernakulam District, Kerala, being developed by M/s Rajagiri Healthcare and Education Trust is accorded with ENVIRONMENTAL CLEARANCE issued by Ministry of Environment, Forest and Climate Change (Govt. of India) vide order No. 21-12/2018-IA-III dated 19-07-2019 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.enfor.nic.in>

ശ്രീ സുരേഷ്കുമാരൻ വെർക്കേർ
വിജയ് (20), എളുപ്പമുള്ള മാനു
വൽ സുബിൻ (22), തൃശ്ശൂർ അള
പ്പനശർ നെടുമ്പേലിക്കുടി ബി
ജ (25) എന്നിവരെയും പ്രായ
മുറത്തിലാകാത്ത ഒരേ പേരെ
യുമാണ് അറസ്റ്റു ചെയ്തത്. ഇവ
രിൽ നിന്ന് മോഷ്ടിച്ച അഞ്ചു പൂ
തവച്ചും വൈക്കുകൾ പിടി
ച്ചുതുരുത്തു.
ഗതിയാഴ്ച വൈകിട്ടാണ്
പാലടി സർവകലാശാല റോഡി
ൽ വാഹനം പരിശോധനയിൽക്കിടെ

യ്ക്ക് അഞ്ചു പേരെ വാതുവെട്ടി പൊ
ലീസിന്റെ ശ്രദ്ധയിൽപ്പെട്ടത്.
വൈക്കുകൾക്ക് നമ്പർ പ്ലേറ്റില്ലാ
യിരുന്നു. കൈകാണിച്ച് നിർത്താ
ൻ ശ്രമിച്ചപ്പോൾ വൈക്ക് ഉരപ
ക്ഷിച്ച് അഞ്ചുപേരും ഓടി കൈ
പ്പെട്ടാൽ ശ്രമിച്ചു. പോലീസ് ഇവ
രെ പിന്തുടർന്നു പിടികൂടുകയാ
യിരുന്നു. തുടർന്ന് സംഘത്തെ
ചോദ്യം ചെയ്തപ്പോഴാണ്
വൈക്ക് മോഷണവിവരങ്ങൾ
പുറത്തുവന്നത്.
സംഭവത്തെക്കുറിച്ച് പോലീ
സ് പറയുന്നത്:

വൈക്കുമാരെ സംഘത്തിലെ പ്രാ
ധാന്യത്തിനാകാത്ത ഒരാളുടെ മ
ലയാറ്റുതിലുള്ള കാമുകിയെ കാ
ണാതെത്തരിയതായിരുന്നു പ്രതി
കൾ. സംസ്ഥാനത്തിന്റെ വിവിധ
ഭാഗങ്ങളിൽ നിന്നു നിർവധി പൂ
തവച്ചും വൈക്കുകൾ സം
ഘം മോഷ്ടിച്ചിട്ടുണ്ട്. പാലക്കാട്
ആണ് ഇവർ ജീവിച്ചിരുന്നത്.
വിറ്റു കിട്ടുന്ന പണം ലഹരി വാ
ങ്ങാനും ആഡംബര ജീവിതത്തി
നുമായാണ് ചെലവിടുന്നത്. ഇ
തിൽ പ്രായപൂർത്തിയാകാത്ത ഒ
രാൾ വർക്ക് ചെയ്ത് മെക്കാനി

സ് മേധാവി കെ. കാർത്തിക് പറ
ഞ്ഞു. കറുപ്പി എസിഎച്ച്എം.
ബി. ലത്തീഫ്, അയ്യപ്പൻ എ
സ്എച്ച്എസ് തൃശ്ശി ചന്ദ്രൻ, എ
സ്എച്ച്എംയായ സുപ്രഭാഷോ
ൺ, ജയിംസ് മാത്യു, എച്ച്
സ്എ എം.കെ. അഞ്ചുൾ സ
ത്താർ, സിപിജമാരായ എൻ.പി.
അനിൽകുമാർ, സി.ഡി. സെബാ
സ്റ്റ്യൻ, മാഹിൻഷാ, ടി.എൻ. മ
നോജ് കുമാർ, കെ.എ. നൗഫൽ
എന്നിവരാണ് അന്വേഷണ സം
ഘത്തിലുണ്ടായിരുന്നത്.

കോവിഡ് പ്രോട്ടോക്കോൾ ലംഘിച്ചാൽ 'പണി' കിട്ടും സെക്ടർ മജിസ്ട്രേറ്റുമാരുടെ പരിശോധന ഇന്നു മുതൽ

കോവിഡ് പ്രോട്ടോക്കോൾ ലംഘനങ്ങൾക്കെതിരെ ഇന്നു മുതൽ കർശ
ന നടപടി സ്വീകരിക്കാനായി ജില്ലാ ഭരണകൂടം പ്രാദേശിക അ
ധികാരികളിൽ നിന്നും സെക്ടർ മജിസ്ട്രേറ്റുമാരുടെ നേതൃത്വത്തിൽ
നിയമിച്ച സെക്ടർ മജിസ്ട്രേറ്റുമാരുടെ അധികാരത്തോടെ
മാണ് സെക്ടർ മജിസ്ട്രേറ്റുമാരുടെ സെക്ടർ മജിസ്ട്രേറ്റുമാരായി നിയ
മിച്ചിരിക്കുന്നത്. കോവിഡ് പട്ടലംഘനങ്ങൾക്കെതിരെ കർശന ന
ടപടി സ്വീകരിക്കാൻ ഇവർക്ക് നിർദ്ദേശം നൽകിയതായാണ് ജില്ലാ ക
ളക്ടർ എസ്.സുഹാസ് അറിയിച്ചു.

ഡെപ്യൂട്ടി കളക്ടർമാരും റിനവുറ വിഭാഗത്തിലും

പകർച്ച വ്യാധി നിയമപ്രകാരം നടപടി

ഭാരതത്തിലുടനീളം പകർച്ചവ്യാധി നിയന്ത്രണ നിയമം എ
ന്നിവയനുസരിച്ച് നടപടി സ്വീകരിക്കാൻ ഇവർക്ക് അധികാരമുണ്ട്.
പഞ്ചായത്ത്, വില്ലേജ് അടിസ്ഥാനത്തിലും കോർപ്പറേഷൻ
യിലും അടിസ്ഥാനത്തിലുമാണ് സെക്ടർ മജിസ്ട്രേറ്റുമാരെ നിയ
മിച്ചിരിക്കുന്നത്. കോവിഡ് സമ്പർക്ക വ്യൂഹം നിയന്ത്രിക്കുന്നതി
നുള്ള ഹരിപ്രദേശ നടപടികൾ സ്വീകരിക്കുകയാണ് ഇവരുടെ ചു
രുത.

ആൾക്കൂടം അനുവദിക്കില്ല

നിയന്ത്രണങ്ങൾ കർശനമാക്കുന്നതോടെ പൊതു സമരങ്ങളിലും
കടകളിലും സമാപനങ്ങളിലും ആൾക്കൂടം അനുവദിക്കില്ല. 'മേക്ക്
ഓപ്പൻ' നിർദ്ദേശങ്ങൾ കർശനമായി പ്രബല്യത്തിൽ വരുത്തുന്ന
തിനൊപ്പം പ്രോട്ടോക്കോൾ ലംഘനങ്ങൾക്കെതിരെ ഉടൻ നടപടി സ്വീ
കരിക്കുന്നതിനും സെക്ടർ മജിസ്ട്രേറ്റുമാരുടെ ഇടപെടൽ ഉണ്ടാകും.
പതിനേഴാം നാൾപത്താലും കേന്ദ്രങ്ങളിൽ ഓരോ സെക്ടർ മജിസ്ട്രേ
റ്റുമാരും പരിശോധന നടത്തും. സഹായത്തിന് പോലീസും ഉണ്ടാ
കും. വാഹന സൗകര്യവും ഒരുക്കിയിട്ടുണ്ട്. അവരവരുടെ ചുമതല
യിലുള്ള പ്രദേശങ്ങൾ കേന്ദ്രീകരിച്ച് പരിശോധന നടത്താനാണ് നി
ർദ്ദേശം.

സെക്ടർ മജിസ്ട്രേറ്റുമാരായി നിയമിക്കപ്പെട്ട സെക്ടർ മജിസ്ട്രേ
റ്റുമാർക്ക് അവരുടെ മാതൃ വകുപ്പിലെ വിലാസങ്ങളിലും പ്രമോജനപ്പെ
ടുത്തും സെക്ടർ മജിസ്ട്രേറ്റുമാരുടെ പ്രവർത്തനം തഹസിൽദാരു

നോട്ടീസ്

പൊതുജന ശ്രദ്ധയ്ക്കായി, കേരള സംസ്ഥാനം, എറണാകുളം
ജില്ല, ആലുവ താലൂക്ക്, എടത്തല വില്ലേജിലും, പെട്ട, സർവ്വേ
നമ്പർ 2140/73, 936/146, 939/145 (പുതിയ റീസർവ്വേ നമ്പർ
184)-ൽ നിലവിലുള്ള ഫോറസ്റ്റേറ്റ് ഉൾപ്പെട്ട പാർപ്പിടങ്ങളിലും
വിപുലീകരണ നിർമ്മാണ പദ്ധതിയോടൊത്ത് പരിസ്ഥിതി
കാര്യത്തിൽ രാജ്യാതി പെർമിറ്റ് കൈമാർ ആന്റ് എഡ്യൂക്കേഷൻ
ട്രസ്റ്റ് എന്ന സ്ഥാപനത്തിന് കേന്ദ്ര പരിസ്ഥിതി വന കാലാവസ്ഥ
വ്യതിയാന മന്ത്രാലയത്തിൽ (ഭാരത സർക്കാർ) നിന്നും ഓർഡർ
നമ്പർ 21-12-2018-IA-III തീയതി 19-07-2019 ഓർഡർ പ്രകാരം
മതിച്ചിരിക്കുന്നു. ഈ ഓർഡറിന്റെ പകർപ്പ് സംസ്ഥാന ലിസ്റ്റി
കരണ നിയന്ത്രണ ബോർഡിൽ ലഭ്യമാണ് കൂടാതെ കേന്ദ്ര
പരിസ്ഥിതി വന കാലാവസ്ഥ വ്യതിയാന മന്ത്രാലയത്തിന്റെ
<http://www.envfor.nic.in> എന്ന വെബ്സൈറ്റിൽ കൂടിയും
പകർപ്പ് കാണാവുന്നതാണ്.

ADMISSIONS 2020-21

Your Destination Our Service

B.Sc - Nursing, Perfusion, Cardiac, OT & AT,
Radiology & Imaging Technology
B.Pharm, Pharm D, BPT, B.Sc - Forensic Science,
BBA, B.Com, BCA (Aviation & Logistics)
All Engineering Courses & Marine Engineering, MBA

ARADHANA EDUCATIONAL FOUNDATION
(Since 2004)

CSB Bank

NOTICE

Notice is hereby given that pursuant to Regulation 29 read with Regulation 47 of the Securities and Exchange Board of India (Listing Obligations and Disclosure Requirements) Regulations, 2015, a meeting of the Board of Directors of the Bank will be held on Monday, October 19, 2020, inter alia, to consider and approve, the Unaudited Financial Results of the Bank for the quarter and half year ended September 30, 2020.

Pursuant to Regulation 46(2) of the Securities and Exchange Board of India (Listing Obligations and Disclosure Requirements) Regulations, 2015, the information contained in this notice is also made available on the Bank's website at <https://www.csbbank.in> under 'Investor Relations' section and also on the website of the stock exchanges viz., BSE Limited at <https://www.bseindia.com> and on the National Stock Exchange of India Ltd., at <https://www.nseindia.com>.

For CSB Bank Limited
Sd/-
Sijo Varghese
Company Secretary

Place: Thrissur
Date: October 10, 2020

CSB Bank Limited (Formerly The Catholic Syrian Bank Limited)
Head Office: 'CSB Bhavan', Post Box No. 502, St. Mary's College Road,

Notice on News Papers

AnnexureNo.10**ANNEXURE****ENVIRONMENTAL STATEMENT FORM – V***(See rule 14)**Environmental Statement for the financial year ending with 31st March***PART - A**

- i. *Name and address of the owner /
Occupier of the industry* *Rajagiri Healthcare and Educational
Trust*

Operation or process.

- ii. *Industry category primary – (STC Code) Secondary – (STC Code)*

- iii. *Production category – Units*

- iv. *Year of establishment – 2015*

- v. *Date of the last environmental statement submitted*

PART – B*Water and Raw Material Consumption:*

- i. *Water consumption in m³ / d*

*Process :**Cooling :**Domestic :232410 m3/year, 19367m3/month, 636 m3/day*

Name of products	Process water consumption per unit of products	
	During the previous Financial year	During the current financial year

ii. Raw material consumption

Name of Raw Materials *	Name of products	Consumption of raw material per unit of output	
		During the previous financial year	During the current financial year

* Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

PART – C

Pollution discharged to environment / unit of output

(Parameter as specified in the consent issued)

Pollutants	Quantity of pollutants discharged (mass/day)	Concentration of pollutants discharged (mass/ volume)	Percentage of variation from prescribed standards with reasons.
a) Water	Nil	Nil	Attached monitoring result from STP
b) Air	Nil	Nil	Attached monitoring result from D.G stack emission

PART – D

HAZARDOUS WASTES

(As specified under Hazardous wastes (Management & Handling Rules, 1989)

Hazardous Wastes	Total Quantity (kg)	
	During the previous financial year	During the current financial year
1. From process		
RED	128858	120446.8
YELLOW	166923.6	164919.9
CYTO	5173	5634.9
NEEDLES	1895.65	2033.3
AMPULES	18455.8	20036.15
	321306.05 kg	313071Kg
2. From pollution control facilities	Incinerator is not in operation, kept as stand by Waste is collected by the external vendor -IMAGE	Incinerator is not in operation, kept as stand by Waste is collected by the external vendor -IMAGE

PART – E

SOLID WASTES:

Solid wastes	Total Quantity (kg)	
	During the previous financial year	During the current financial year
1. From process	187044 Kg	252495Kg
2. From pollution control facilities		
3. Quantity recycled or reutilised within the unit	Food waste is used as fodder in piggery farm. Other solid wastes are sold to the local vendor for reuse and recycling	Food waste is used as fodder in piggery farm. Other solid wastes are send to local vendors for reuse and recycling

PART – F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

Segregation of Municipal Solid Waste (MSW)

The segregation of Municipal Solid Waste to Bio-Degradable and Non-Degradable is proposed to be achieved by providing colour coded bins in approximate areas.(Green coloured bins for Bio Degradable Waste and Yellow Coloured for the Non-Bio degradable waste.)

Bio-Degradable and Non bio degradable Municipal Solid Waste

The recyclable materials are sold to the local vendor.

All Hazardous wastes generated from the hospital is disposed through approved agencies. CFL Needles like household hazardous wastes and Used oil , oil filters are the major hazardous waste generated from the project site.

PART – G

Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production.

Low flow and high pressure water taps can reduce the amount of daily water consumption.

The STP can treat all Sewage water generated from the hospital. This can prevent contamination of ground water and soil.

PART – H

- Plant more sapling as part of green belt around the project site
- 1MW Solar plant work under progress , tentative completion – End of August 2024

PART – I

Any other particulars in respect of environmental protection and abatement of pollution.

- Plant various saplings in the project site
- Ground water recharge
- Separate building to keep Hazardous, bio medical and other wastes

Copy of Form V

Annexure No. 11

Standards



TEST REPORT

ULR No.: TC1293924000010540F					
LRI No.: SEAL24050996A		Date: 13-05-2024	Page 1 of 1		
CUSTOMER DETAILS					
Customer Name & Address	M/s Rajagiri Healthcare and Education Trust Rajagiri Hospital Chunangamvely, Aluva Ernakulam District				
Customer Reference	Test Request date: 07-05-2024				
SAMPLE DETAILS					
Product Category	Atmospheric Pollution	Sample Code	EN24050253		
Sample Name	Ambient Air	Sample Received on	08-05-2024		
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	09-05-2024		
Sampled by	Lab Authorized Sampler	Test Completed on	11-05-2024		
DETAILS OF SAMPLING					
Sampling Location	East Side Main gate	Date of Sampling	07-05-2024		
Sampling Procedure	SEAL/CHL/SOP/7.3/02	Humidity	69 %		
TEST RESULTS-CHEMICAL DISCIPLINE					
SL NO	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ STANDARD
1	Particulate Matter PM ₁₀	IS 5182 (Part 23): 2006	µg/m ³	55.8	100 (Max)
2	Particulate Matter PM _{2.5}	IS 5182 (Part 24): 2019	µg/m ³	24.9	60 (Max)
3	Sulphur dioxide as SO ₂	IS 5182 (Part 2): 2001	µg/m ³	6.20	80 (Max)
4	Nitrogen dioxide as NO ₂	IS 5182 (Part 6): 2006	µg/m ³	8.99	80 (Max)
5	Carbon monoxide as CO	IS 5182 (Part 10): 1999	mg/ m ³	0.72	4 (Max)
6	Lead as Pb	IS 5182 (Part 22): 2004	µg/m ³	<0.01	1 (Max)
7	Arsenic as As	SEAL/CHL/SOP/7.2/11	ng/m ³	<0.10	6 (Max)
8	Nickel as Ni	SEAL/CHL/SOP/7.2/11	µg/m ³	<5.00	20 (Max)
9	Ammonia as NH ₃	IS 5182 (Part 25): 2018	µg/m ³	<20.0	400 (Max)
10	Ozone as O ₃	IS 5182 (Part 9): 1974	µg/m ³	<5.00	100 (Max)
11	Benzene as C ₆ H ₆	IS 5182 (Part 11): 2006	µg/m ³	<4.00	5 (Max)
12	Benzo (a) pyrene as BaP	IS 5182 (Part 12): 2004	ng/m ³	<0.80	1 (Max)

Remarks:

Shency Joy
TM-Chemical
Checked by:

End of Report



Laiju P N
Laboratory Head
Authorized Signatory

The results are related only to the samples submitted for analysis and this test report shall not be reproduced except in full, without the written approval of the laboratory.

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vide Certificate No. TC - 12939 & "A" Grade Laboratory approved by KSPCB.

"Standards" Bldg. No: 338/A,B,C,D,E (Behind BPCL Petrol Pump), Edayar, Muppathadam P.O., Ernakulam Dist.- 683 110
Tel. 0484-2546660, 93872 72402, 90743 41443, Web: www.sealabs.in, E-mail: sealab@gmail.com

Result of Ambient Air


Annexure No.12

Standards**TEST REPORT**


ULR No.: TC1293924000010528F			
LRI No.: SEAAL24050984A		Date: 13-05-2024	Page 1 of 1
CUSTOMER DETAILS			
Customer Name & Address	M/s Rajagiri Healthcare and Education Trust Rajagiri Hospital Chunangamvely, Aluva Ernakulam District		
Customer Reference	Test Request date: 07-05-2024		
SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	EN24050239
Sample Name	Noise Level	Monitoring Commenced on	07-05-2024
Test Method	IS 9989:1981	Sampled by	Lab Authorized Sampler
TEST RESULTS-CHEMICAL DISCIPLINE			
Sl. No.	SOURCE	UNIT	RESULT
1	Ambient sound level (Day Time) – East side Main Gate	dB (A)	52.1
2	Ambient sound level (Day Time) – Westside STP Area	dB (A)	51.9
3	Ambient sound level (Day Time) – North side Gate	dB (A)	52.8
KSPCB LIMIT		dB (A)	55 (Max)

Remarks:

End of Report


Shency Joy
TM-Chemical
Checked by:




Laju P N
Laboratory Head
Authorized Signatory

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Tel. 0484-2546660, 93872 72402, 90743 41443, Web: www.sealabs.in, E-mail: seaalab@gmail.com

Result of Noise

Annexure No. 13

Standards

**TEST REPORT**

ULR No.: TC1293924000010534F		
LRI No.: SEAAL24050990A	Date: 13-05-2024	Page 1 of 1

CUSTOMER DETAILS	
Customer Name & Address	M/s Rajagiri Healthcare and Education Trust Rajagiri Hospital Chunangamvely, Aluva Ernakulam District
Customer Reference	Test Request date: 07-05-2024


SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	EN24050245
Sample Name	Stack Emission	Sample Received on	08-05-2024
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	09-05-2024
Sampled by	Lab Authorized Sampler	Test Completed on	11-05-2024

DETAILS OF SAMPLING			
Stack Identity	1250 KVA DG Set 2	Date of Sampling	07-05-2024
Stack Diameter	0.50 m	Sampling Procedure	SEAAL/CHL/SOP/7.3/04

TEST RESULTS-CHEMICAL DISCIPLINE					
SL NO	PARAMETERS	TEST METHOD	UNIT	RESULT	KSPCB LIMIT
1	Temperature of Emission	IS 11255 (Part 3): 2008	°C	161	---
2	Velocity of Gas Discharged	IS 11255 (Part 3): 2008	m/sec	8.23	---
3	Stack Gas Flow Rate	IS 11255 (Part 3): 2008	Nm ³ /Hr	3992	---
4	Particulate Matter	IS 11255 (Part 1): 1985	mg/Nm ³	46.1	<75
5	Oxides of Nitrogen as NOX	IS 11255 (Part 7): 2005	mg/Nm ³	30.6	<1336
6	Sulphur dioxide as SO ₂	IS 11255 (Part 2): 1985	mg/Nm ³	16.2	---
7	Carbon monoxide as CO	SEAAL/CHL/SOP/7.2/03	mg/Nm ³	120	<150

Remarks:

End of Report


 Shency Joy
 TM-Chemical
 Checked by:




 Laiju P N
 Laboratory Head
 Authorized Signatory

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Tel. 0484-2546660, 93872 72402, 90743 41443, Web: www.sealabs.in, E-mail: seaalab@gmail.com

Standards



TEST REPORT

ULR No.: TC1293924000010535F

LRI No.: SEAAL24050991A

Date: 13-05-2024

Page 1 of 1

CUSTOMER DETAILS

Customer Name & Address	M/s Rajagiri Healthcare and Education Trust Rajagiri Hospital Chunangamvely, Aluva Ernakulam District
Customer Reference	Test Request date: 07-05-2024

SAMPLE DETAILS

Product Category	Atmospheric Pollution	Sample Code	EN24050246
Sample Name	Stack Emission	Sample Received on	08-05-2024
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	09-05-2024
Sampled by	Lab Authorized Sampler	Test Completed on	11-05-2024

DETAILS OF SAMPLING

Stack Identity	1250 KVA DG Set 3	Date of Sampling	07-05-2024
Stack Diameter	0.50 m	Sampling Procedure	SEAAL/CHL/SOP/7.3/04

TEST RESULTS-CHEMICAL DISCIPLINE

SL NO	PARAMETERS	TEST METHOD	UNIT	RESULT	KSPCB LIMIT
1	Temperature of Emission	IS 11255 (Part 3): 2008	°C	152	---
2	Velocity of Gas Discharged	IS 11255 (Part 3): 2008	m/sec	8.68	---
3	Stack Gas Flow Rate	IS 11255 (Part 3): 2008	Nm ³ /Hr	4300	---
4	Particulate Matter	IS 11255(Part 1):1985	mg/Nm ³	39.1	<75
5	Oxides of Nitrogen as NOX	IS 11255(Part 7):2005	mg/Nm ³	25.3	<1336
6	Sulphur dioxide as SO ₂	IS 11255 (Part 2): 1985	mg/Nm ³	11.2	---
7	Carbon monoxide as CO	SEAAL/CHL/SOP/7.2/03	mg/Nm ³	103	<150

Remarks:

End of Report


Shency Joy
TM-Chemical
Checked by:




Laiju P N
Laboratory Head
Authorized Signatory

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Tel. 0484-2546660, 93872 72402, 90743 41443, Web: www.sealabs.in, E-mail: seaalab@gmail.com

Standards**TEST REPORT**

ULR No.: TC1293924000010532F		
LRI No.: SEAAL24050988A	Date: 13-05-2024	Page 1 of 1

CUSTOMER DETAILS	
Customer Name & Address	M/s Rajagiri Healthcare and Education Trust Rajagiri Hospital Chunangamvely, Aluva Ernakulam District
Customer Reference	Test Request date: 07-05-2024

SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	EN24050243
Sample Name	Stack Emission	Sample Received on	08-05-2024
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	09-05-2024
Sampled by	Lab Authorized Sampler	Test Completed on	11-05-2024

DETAILS OF SAMPLING			
Stack Identity	320 KVA DG Set	Date of Sampling	07-05-2024
Stack Diameter	0.15 m	Sampling Procedure	SEAAL/CHL/SOP/7.3/04

TEST RESULTS-CHEMICAL DISCIPLINE					
SL NO	PARAMETERS	TEST METHOD	UNIT	RESULT	KSPCB LIMIT
1	Temperature of Emission	IS 11255 (Part 3): 2008	°C	159	---
2	Velocity of Gas Discharged	IS 11255 (Part 3): 2008	m/sec	8.61	---
3	Stack Gas Flow Rate	IS 11255 (Part 3): 2008	Nm ³ /Hr	378	---
4	Particulate Matter	IS 11255(Part-1):1985	mg/Nm ³	22.8	<135
5	Oxides of Nitrogen as NOX	IS 11255(Part-7):2005	mg/Nm ³	20.7	NOX+HC <2709
6	Sulphur dioxide as SO ₂	IS 11255 (Part 2): 1985	mg/Nm ³	11.2	---
7	Carbon monoxide as CO	SEAAL/CHL/SOP/7.2/03	mg/Nm ³	111	<2370

Remarks:

End of Report


Shency Joy
TM-Chemical
Checked by:




Laju P N
Laboratory Head
Authorized Signatory

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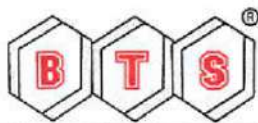
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Tel. 0484-2546660, 93872 72402, 90743 41443, Web: www.sealabs.in, E-mail: seaalab@gmail.com

Result of DG stack

AnnexureNo.14



CIN : U24299KL1992PTC006691

J & J Bio - Tech and Speciality Chemicals (Pvt) Ltd.

Plot No. 11, Industrial Development Area, Erumathala P.O, Aluva - 683 112, Kochi, Kerala
 Ph: 0484 2839731, 32, 33, Website : www.jjbiotech.com, E-mail: gm@jjbiotech.com, jjbiotech@bsnl.in

Accredited by Kerala State Pollution Control Board

Ref. No: BTS/ANL/24/CRG/290	ANALYSIS REPORT	Date: 25.03.2024,
Name & Address of the party	Rajagiri Hospital.	
Date of receipt of sample	21.03.2024	
Nature of examination	Physical, Chemical	
Sample not drawn by J&J Bio-Tech and Speciality Chemicals (P) Ltd, collected and identified by the customer as	STP Inlet.	
Sl. No	Parameter	Unit
	Reported Value	Limit

1)	P ^H at 29 ⁰ C		6.56	5.5 – 9
2)	Total Dissolved Solids	ppm	599	2100
3)	Total Suspended Solids	„	175	100
4)	Oil & Grease	„	15.5	10
5)	COD	„	792	250
6)	BOD (3 days at 27 ⁰ C)	„	330	30

Senior Chemist

* BDL - Below Detection Level

General Manager

Result of water

Annexure No.15




**GLOBAL
LABS & CONSULTANTS**
(A DIVISION OF PERIYAR BIOTECH (P) LTD)
AN ISO9001:2015 & 14001: 2015 CERTIFIED COMPANY
Approved by Kerala State Pollution Control Board

REPORT ON ANALYSIS OF WASTE WATER

1.Source of Sample :STP Filter Out			2.Ref.No: GLC/E/40917765		
3.Sample Collected by: Global services			4.Date of Collection: 17.09.2024		
5.Period of Analysis: 17.09.2024 – 23.09.2024			6.Prepared on: 24.09.2024		
7. Client Address: RAJAGIRI HOSPITAL CHUNAGUMVELLY, ALUVA.					
Sl.No	PARAMETERS	Unit	Method	KSPCB LIMIT	ACTUAL CONTENTS
1	pH	--	IS:3025(Pt.11)1983	5.5-9.0	7.49
2	Total Dissolved Solids	mg/l	IS:3025(Pt.16)1984	2100	580
3	Total Suspended Solids	mg/l	IS:3025(Pt.17)1984	100	15
4	BOD 3 days at 27°C	mg/l	IS:3025(Pt.44)1993	30	8.6
5	COD	mg/l	IS:3025(Pt.58)2006	250	120
6	Oil and Grease	mg/l	IS:3025(Pt.39)1991	10	<1

Remarks: All parameters are within the limit of KSPCB Standard.


CHEMIST



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Global House, Mekkad P.O.,
Karakkattukunnu, Nedumbassery
Ernakulam Dt. Kerala - 683589
Phone: 04847180654, 9446429151
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acctsperryarbiotech2003@gmail.com

R&D Laboratory
Mob: 9562800841, 8281001152
Email: globallabskuzhur@gmail.com

Result of treated water from STP

PLATE

PLATE NO: 1



Hospital Building



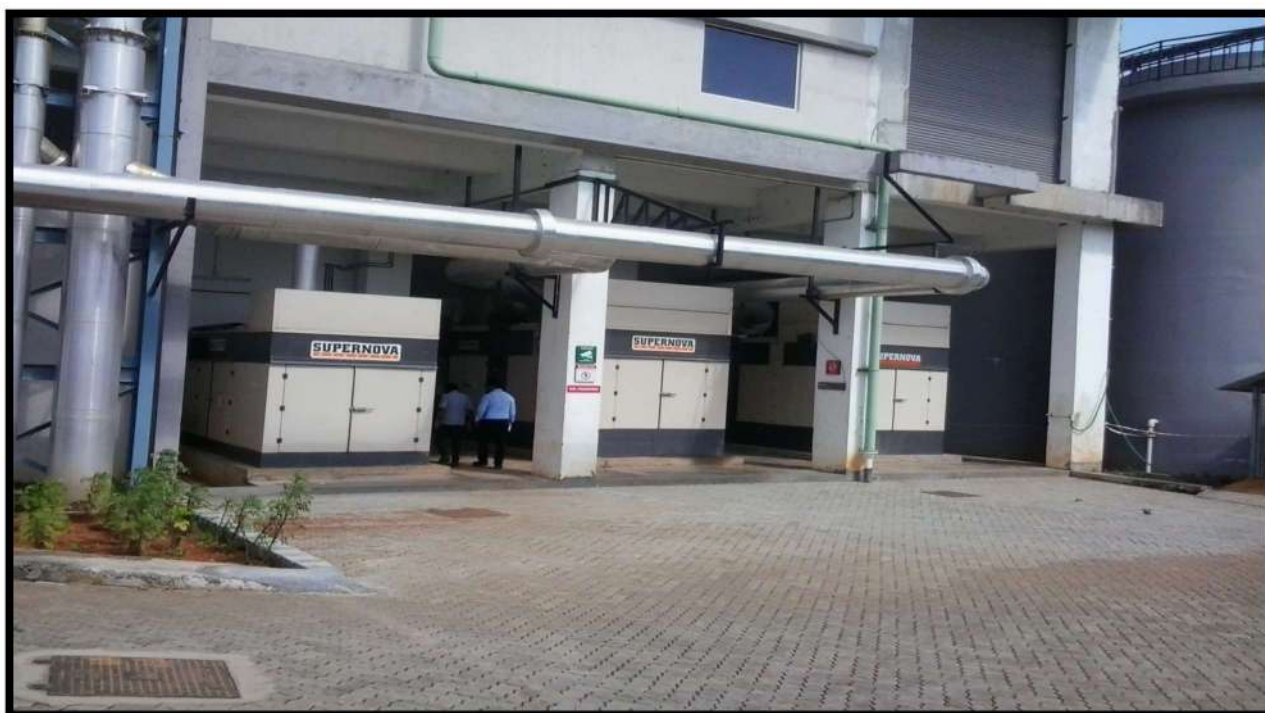
Construction site

PLATE No.1 A



STP

PLATE NO.2



Photograph of DG stack

PLATE NO: 3



Photograph of Height of Stacks

PLATE NO.4



Photograph of Open Space

PLATE NO.5



Solar Panel