

1.ALTERNATE SOURCES OF ENERGY & ENERGY

CONSERVATION MEASURES

Alternate sources of energy and energy conservation measures are implemented at the college to promote sustainability. This includes the utilization of energy-efficient LED lights, air conditioning units, and refrigerators, all boasting high energy ratings to minimize consumption. Additionally, the college integrates solar panels to harness renewable energy, contributing to a greener and more environmentally conscious campus.

1) **NATURALLY LIT CLASSROOMS**

A naturally lit classroom is a learning space designed to maximize the use of natural sunlight for illumination during daylight hours. These classrooms typically feature large windows, skylights, or other architectural elements that allow ample natural light to enter the room. By relying on sunlight instead of artificial lighting, naturally lit classrooms can reduce energy consumption, create a more pleasant learning environment, and potentially improve student concentration and productivity. Additionally, they contribute to sustainability efforts by minimizing the use of electricity generated from non-renewable sources.



GPS Map Camera



Vazhichal, Veeranakavu, Kerala, India

F5MG+7G9, Emmanuel College, Vazhichal, Nedumangadu Poovachal Rd, Veeranakavu,
Kerala 695125, India

Lat 8.482913°

Long 77.176544°

02/04/24 11:53 AM GMT +05:30



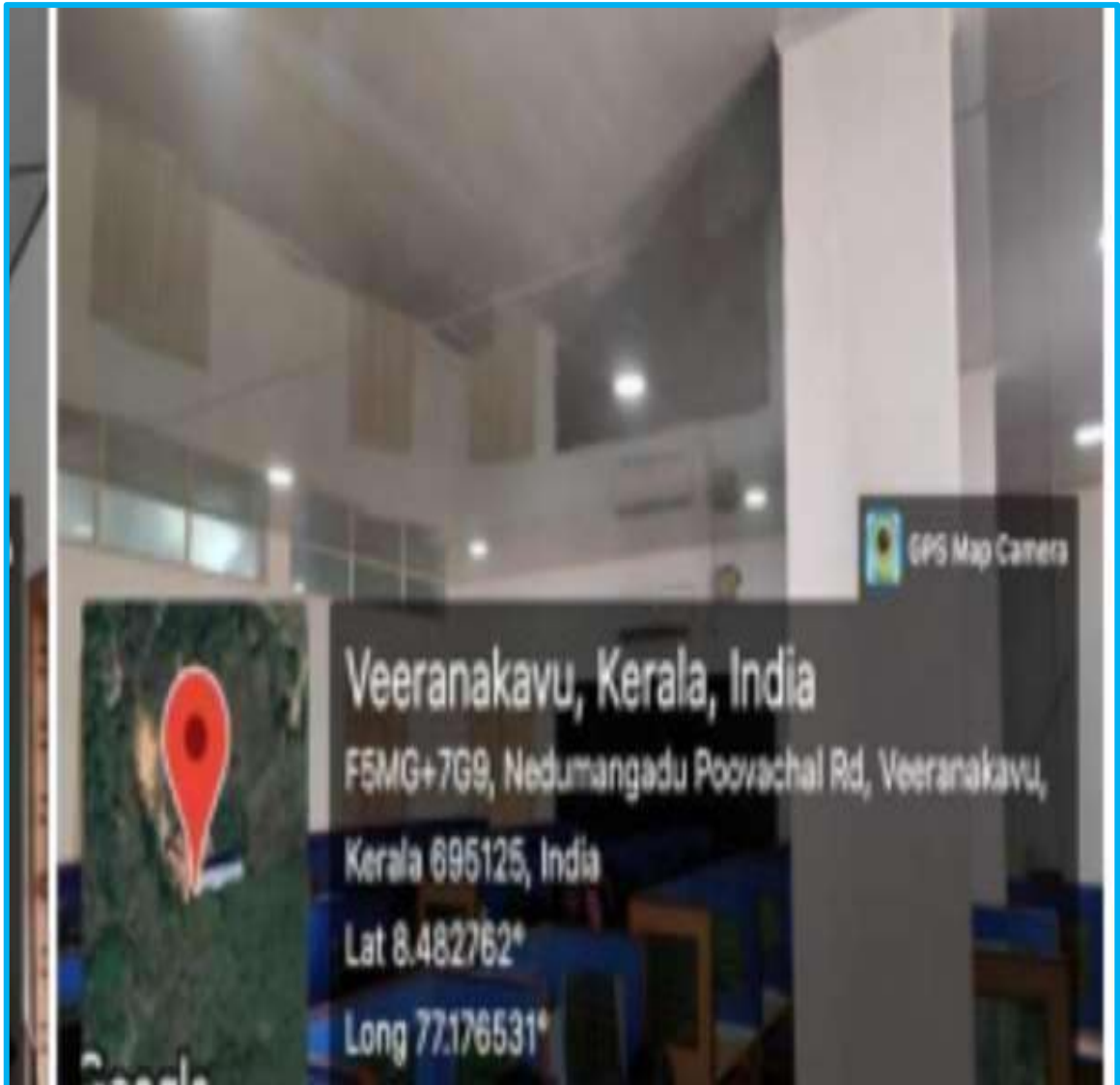
Vazhichal, Veeranakavu, Kerala, India
F5MG+7G9, Emmanuel College, Vazhichal, Nedumangadu Poovachal Rd, Veeranakavu,
Kerala 695125, India
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Long 77.176544°
02/04/24 11:54 AM GMT +05:30

Google

Naturally lit classroom

2) **LED LIGHTS**

As a part of energy conservation, LED lights are used in the entire college instead of using other lamps.



LED Lights

ASNA**ELECTRICAL, PLUMBING & SANITARYWARE**CHAMAVILA, Dalummugham P.O., Trivandrum-695125
Phone : 9645543353, 9605043353**CASH BILL**No. **245**

Date : 28/04/23

To Emmanuel College Vazhickal

Sl. No.	Particulars	Qty	Amount	
			Rs.	Ps
1	Hacksaw blade	1	15	
2	LED halogen	1	1900	
3	Tubset	1	200	
4	20m Coupling	6	24	
5	20m clip	20	60	
6	20m bend	3	21	
7	8m box	1	139	
8	8m plate	1	180	
9	Switch	4	140	
10	Socket	1	106	
11	Fan dimmer	1	420	
12	6m frischer	50	25	
13	32x6 Screw	50	40	
14	Insulation tape	2	20	
15	2.5 ² wire	10m	360	
16	1.5 ² wire	10m	220	
17	1 ² wire	10m	540	
18	Anchor bolt	1	90	
19	Seal tape	1	20	
TOTAL			4520	

Rupees

Four thousand five hundred and twenty

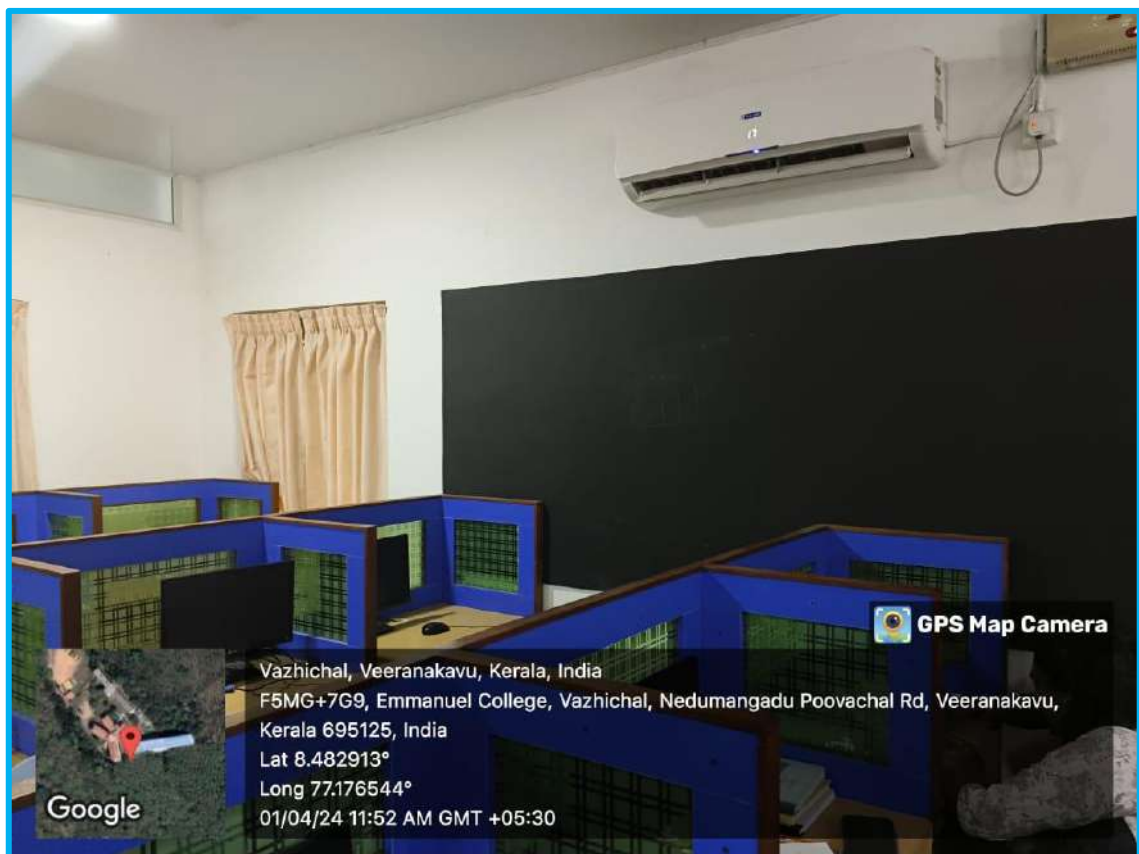
For Asna

Only

Cash vouchers of LED lights installation

3)AIR CONDITIONER WITH 4 STAR

An air conditioning unit boasting a 4-star energy rating, delivering superior cooling efficiency while minimizing energy consumption, making it an environmentally conscious and cost-effective choice for optimal comfort.



Air conditioner

4)REFRIGERATOR

A five-star rated refrigerator, guaranteeing exceptional cooling performance with minimal energy consumption, ideal for sustainable and efficient food storage.



Refrigerator

5) **SOLAR ENERGY:**

The institution has facilities for alternate source of energy and energy conservation measures. A 50 KW solar power plant is implemented in college & hostel. This solar power plant has been utilized for powering the entire building.



Solar Panel

RAYZ SOLAR



Date- 04-04-2023

To,
Fr.Christudas
Manager
Emmanuel College,Vazhichal.

Respected Father,

As a part of 50KW solar project in College, we have received 15,00,000/- rupees as advanced out of 28,00,000/- rupees on 21-03-2023. We have done Solar work worth 20,00,000/- rupees till now. We have registered Feasibility to KSEB on 23-03-2023 and Validity is one month. So we humbly requested to help by making the next stage payment as mentioned in the quotation for further works.

Thanking You



RAYZ SOLAR

Bank Details

Federal Bank, Kattakada
AC No: 15490200004097
IFSC: FDRL0001549
GSTIN: 32ABEFR4713N1Z3

+91 8921105458, 8907980800

www.raysolar.com

www.raysolar.com

TC 53/2581, Pappanamcode,
Thiruvananthapuram.

RAYZ SOLAR



Date- 21-03-2023

To,
Fr.Christudas
Manager
Emmanuel College,Vazhichal.

Respected Father,

As a part of 50KW solar project in College, we have received 15,00000/- rupees as advanced out of 28,00000/- rupees on 21-03-2023 .

Thanking You



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Cash bill of Solar panel installation