



**NICHE**  
**KANYAKUMARI**  
DEEMED-TO-BE UNIVERSITY

**NOORUL ISLAM CENTRE FOR HIGHER EDUCATION**

Kumaracoil - 629 180, Kanyakumari District, Tamil Nadu, India  
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## ALTERNATE SOURCES OF ENERGY

### Solar Energy

A 10kW off-grid solar photovoltaic energy production system has been installed in marine hostel. It has been installed in the year 2014 by Aeon Renewable Energy Solution Private limited. It produces about 30 units per day and the generated power is used in Marine kitchen.

A 660W solar photovoltaic energy production system has been installed in the Allied Health Science (AHS) Department and the power generated is used for the lights and fans in the laboratories of AHS department.

*Solar Panel in Marine Hostel*



*Solar Panel in AHS Department*



### Biogas Plant

A 6 cubic meter biogas plant has been constructed in gent's hostel. Food wastes from hostel and cow dung are used as feed materials. The biogas thus produced is also used as an alternate source of cooking fuel in gent's hostel.

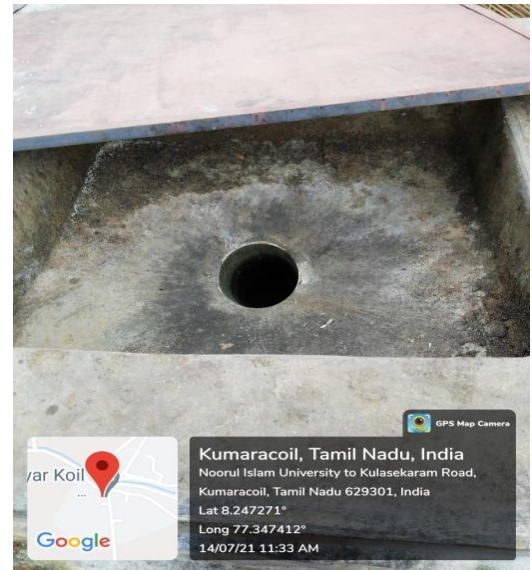


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***Biogas plant in gent's hostel***



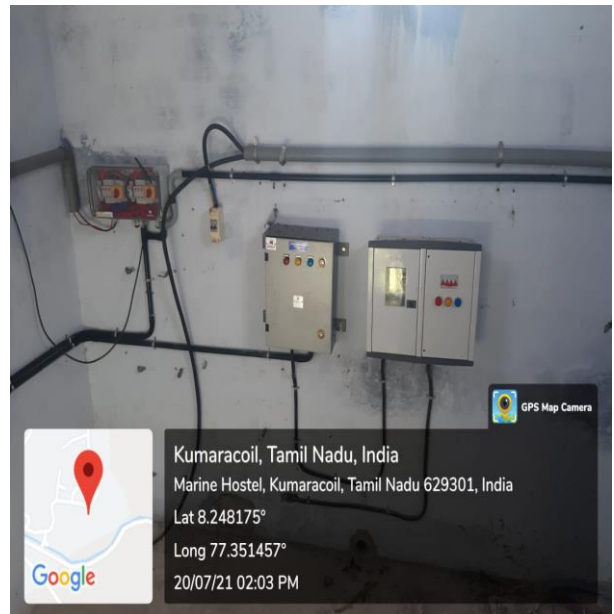
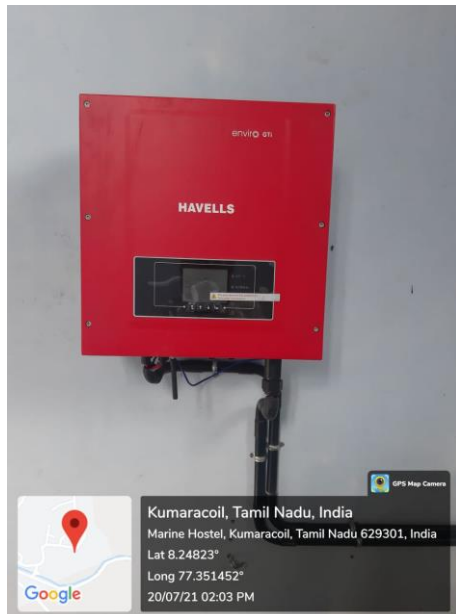
***Biogas as cooking fuel***



***Wheeling to the grid***

A provision for wheeling of power generated from solar plant has been installed. The request for getting connection with the grid has been submitted to the Electricity board.

***Provision for wheeling to the grid***







**Sensor-based Energy Conservation**

As a low-energy practice, the street lights used in our campus are sensor based that automatically turn off during the day and turn on at night.

**Sensor based Street Light**



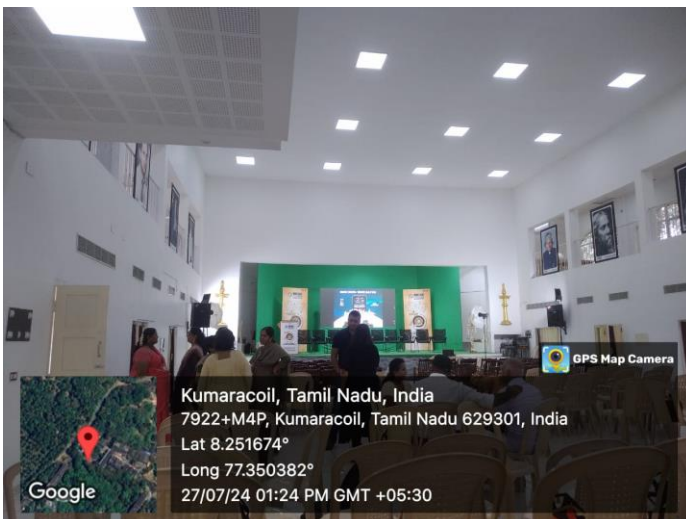
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Latitude 8.2492503° Longitude 77.3486273°  
Local 10:47:05 am Altitude -23.5 meters  
GMT 05:17:05 am Friday, 12-06-2020

**Use of LED bulbs/ power efficient equipment**

There are around 1040 LED lights in the campus. Each LED bulb saves 20 W of electricity. This saves 21 units of electricity in an hour.

**LED Lights in Hilltop Auditorium**

**LED Lights in AC Auditorium**



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7922+M4P, Kumaracoil, Tamil Nadu 629301, India  
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Long 77.350382°  
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Kumaracoil, Tamil Nadu, India  
68XX+G82, Kumaracoil, Tamil Nadu 629301, India  
Lat 8.2486°  
Long 77.347881°  
20/01/23 11:00 AM GMT +05:30

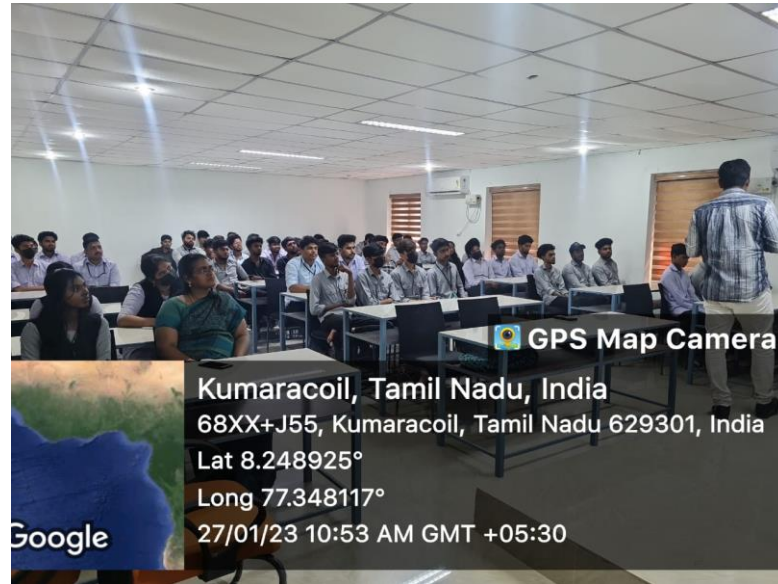


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*LED Lights in Smart Room*



**Wind Energy**

*Wind mill in AHS department*



A 1.5kW wind mill has been installed in the AHS department. The street lights around the department are powered by the same.

*(Staff Exchange)*  
 M. Mary Synthya Jais Beetha  
 ASP IEE

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