



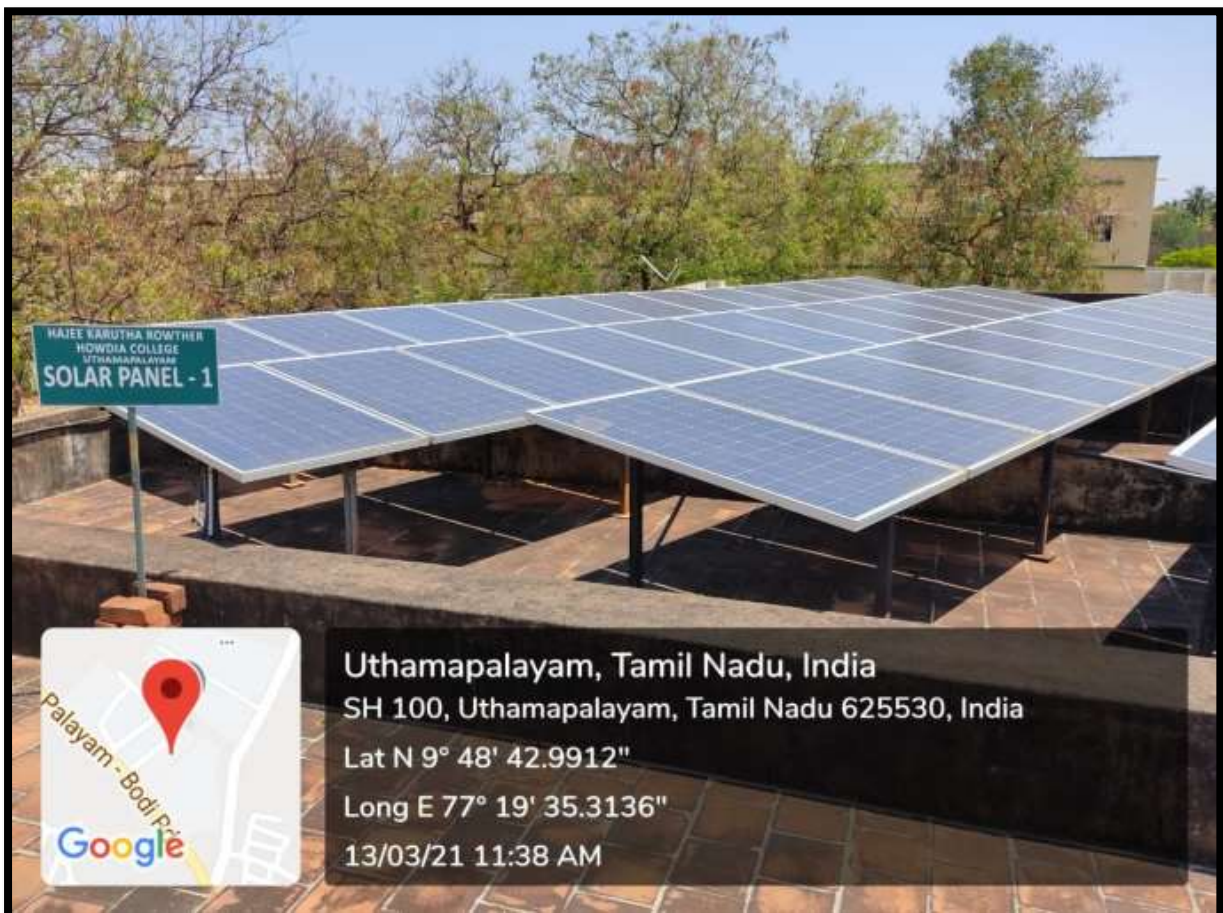
HAJEE KARUTHA ROWTHER HOWDIA COLLEGE (AUTONOMOUS) UTHAMAPALAYAM

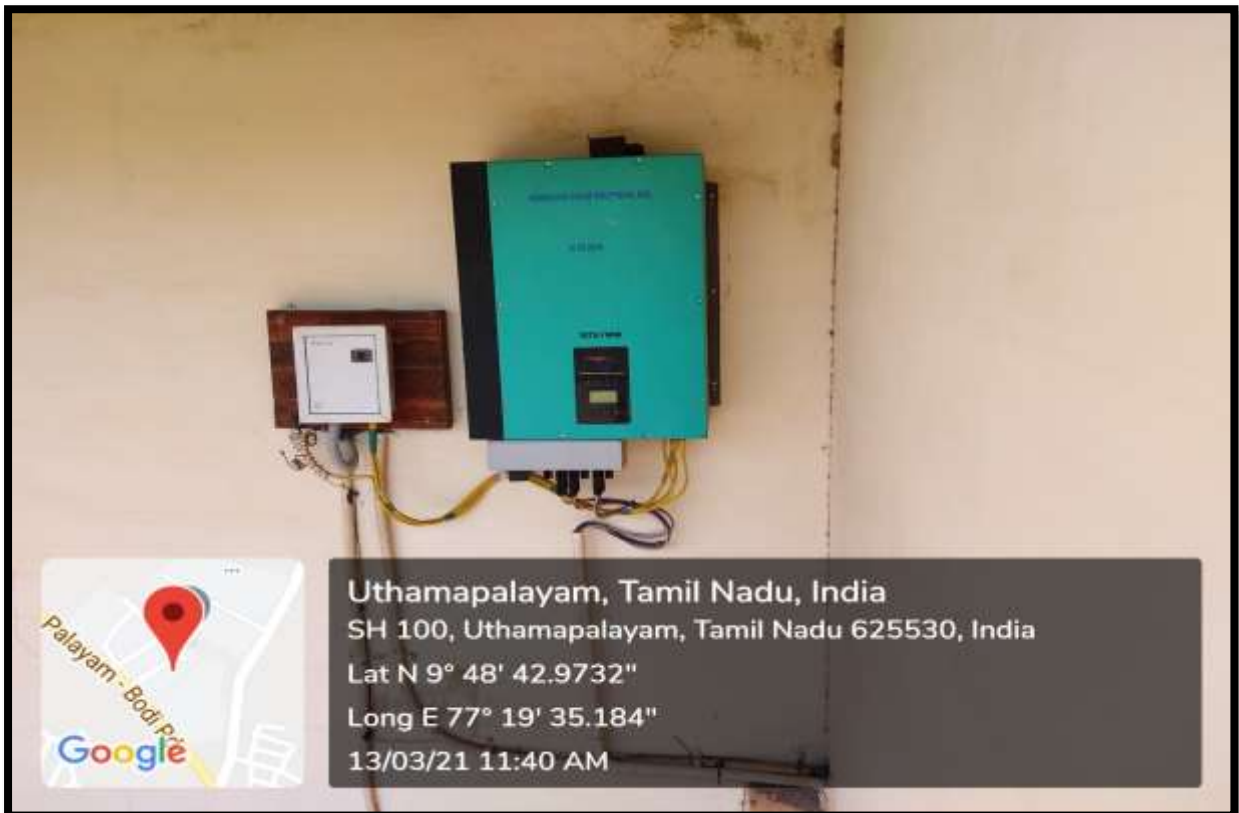
7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

1. Solar power plant

- Our college have installed solar power plant in the “top roof of Science Building & MP Building” in the year 2012-13.
- Totally 68 solar panels were placed.
- The installed Capacity of Solar Power Plant is 17 kW.

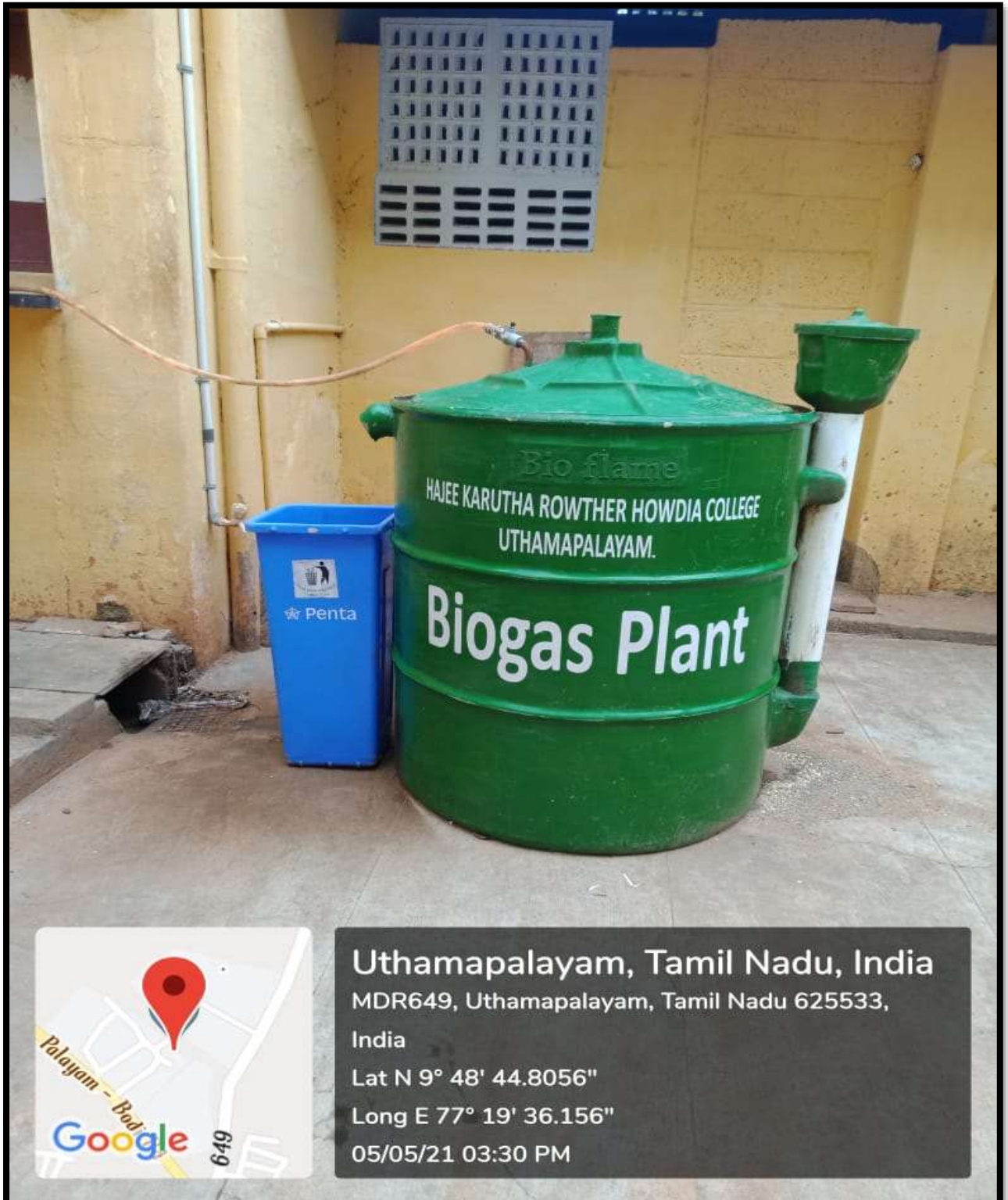
Name of the Document: Solar Power plant



Name of the Document: Solar Power plant inverter

2. Biogas plant

A 1 m³ biogas plant is functioning in the campus for producing biogas using the food waste.



4. Wind mill

- Our institution has installed two wind turbines.
- The wind power generated by each turbine of 2.5 kW which will be stored into the battery.
- The battery rating used to store the power is 20 numbers with 12V, 100Ah battery.

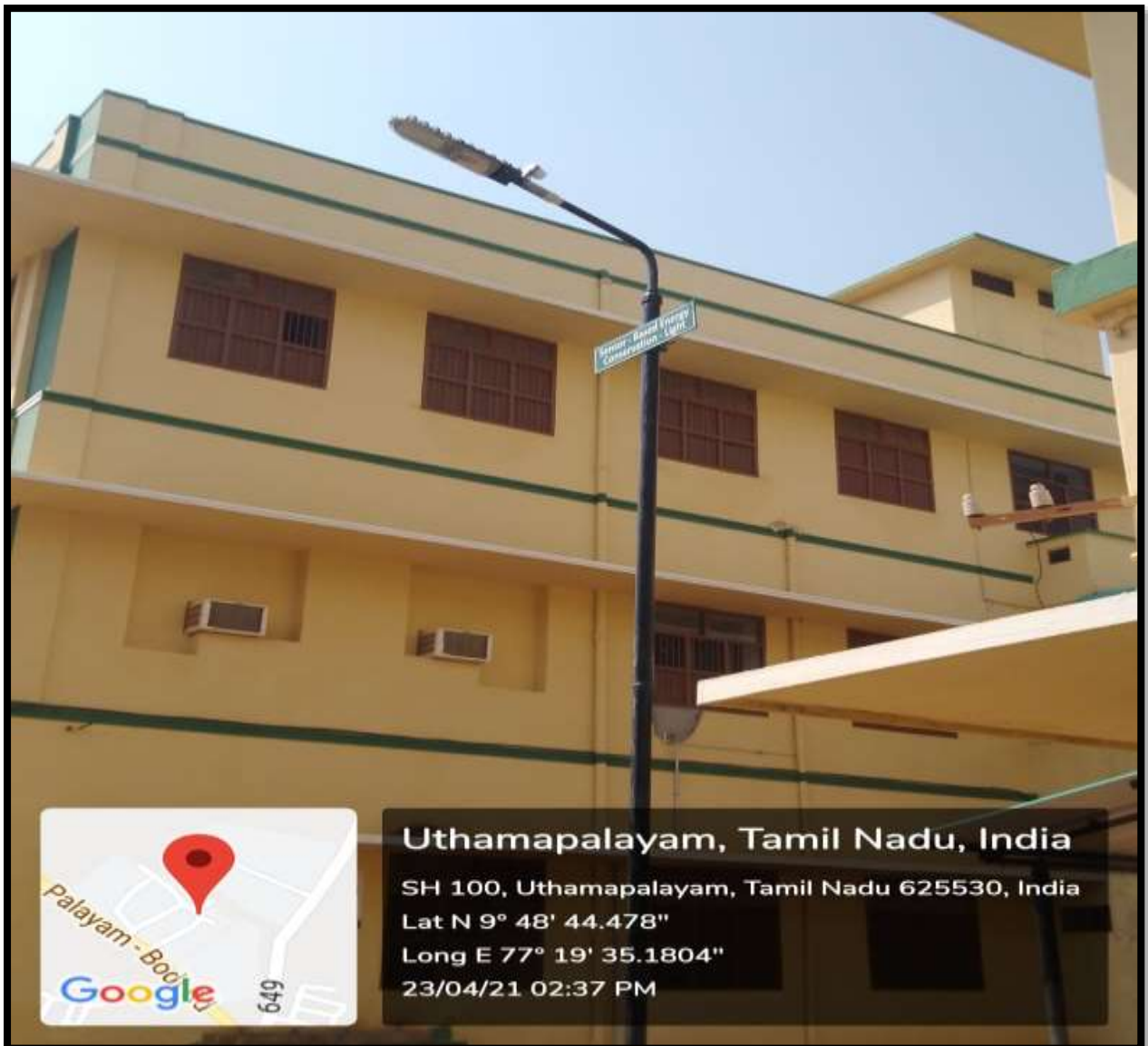
Name of the Document: Wind mills



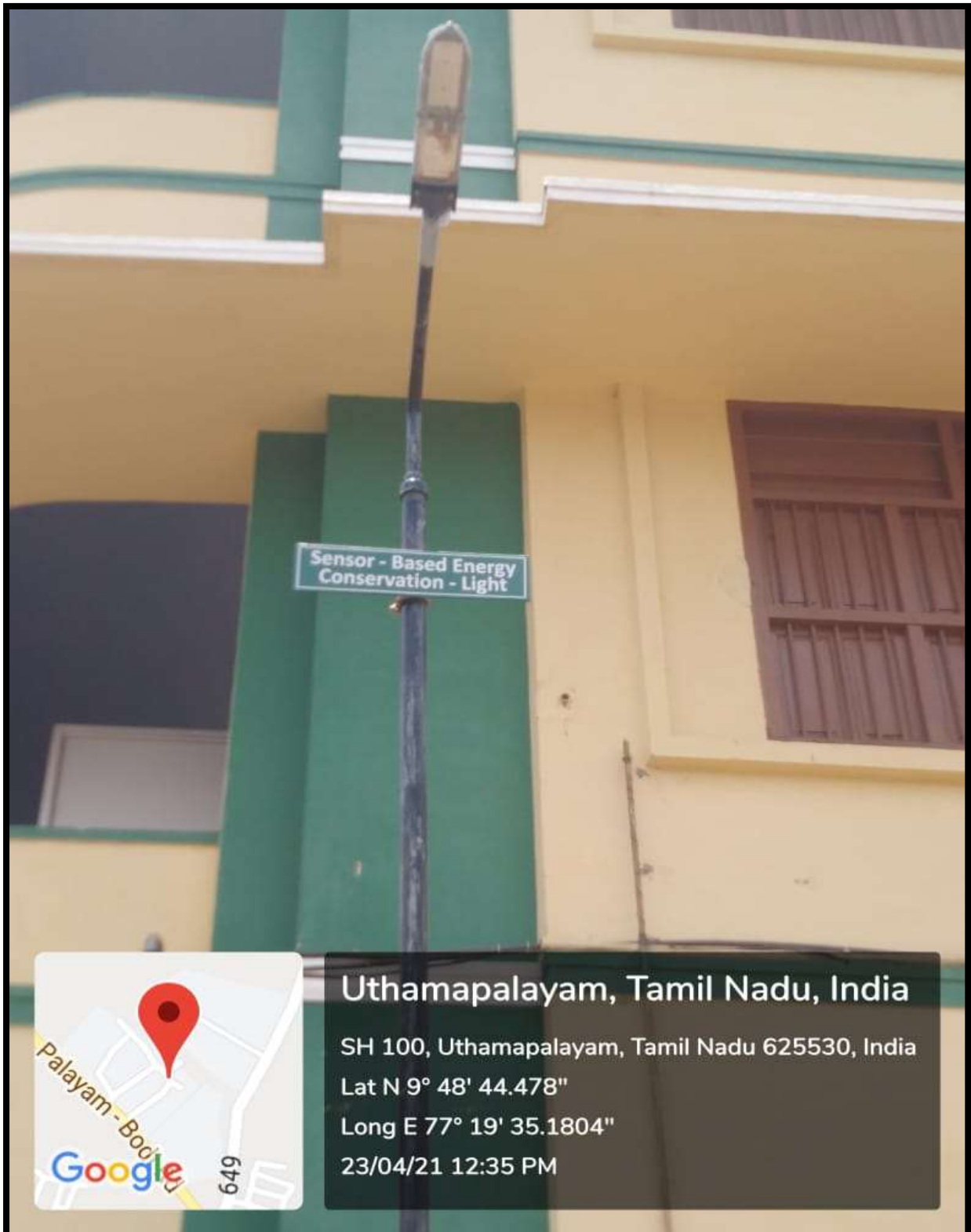
4. Sensor-based energy conservation Lights

- Photosensors sense ambient light conditions, making them useful for all types of outdoor lighting.
- Our college have installed 26 photosensors (sensor-based energy conservation lights) in the pathways to prevent outdoor lights from operating during daylight hours.
- This can help save energy because you don't have to remember to turn off your outdoor lights.

Name of the Document: Photosensors in front of main building



Name of the Document: Photosensors in front of Science building



Sensor - Based Energy Conservation - Light



Uthamapalayam, Tamil Nadu, India

SH 100, Uthamapalayam, Tamil Nadu 625530, India

Lat N 9° 48' 44.478"

Long E 77° 19' 35.1804"

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5. Use of LED bulbs/ power efficient equipment

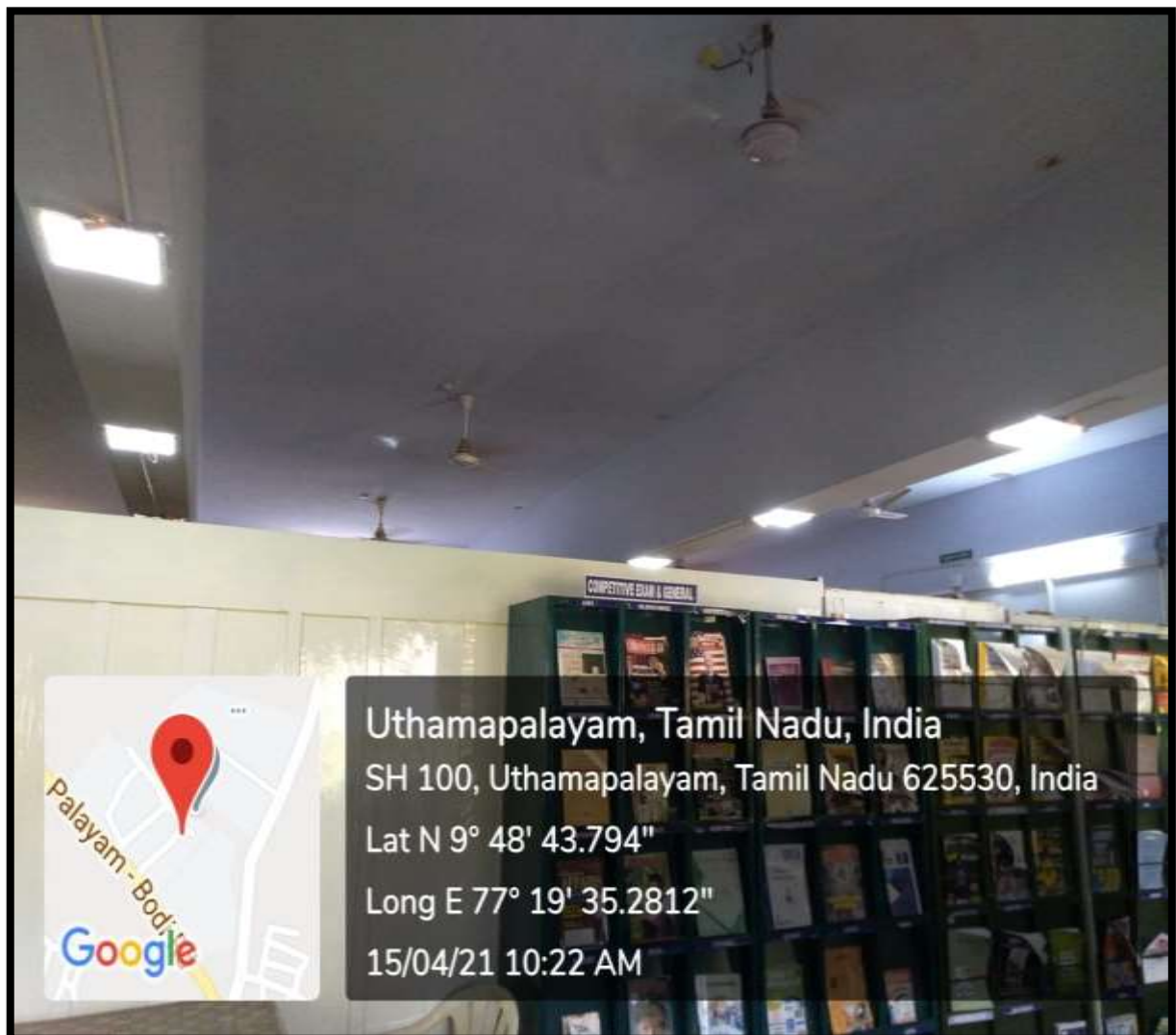
- LED lights consumes 50% less electricity than traditional fluorescent and halogen bulbs, resulting in substantial energy cost savings, especially for spaces with lights that are on for extended periods.
- LEDs also aim light in a specific direction unlike conventional bulbs, which emit light and heat in all directions.
- This directional lighting capability reduces wasted light and energy.
- Our College have conserved 5,346 W electricity by replacing other lights by LED lights.

Year	Total bulbs	Type	No. of bulbs	W/bulb	Total Power requirement in Watt
2016-17	595	LED	130	22	21,460
		CFL	465	40	
2019- 20	595	LED	427	22	16,114
		CFL	168	40	

Location	Floor	No. of Lights			
		LED	W/ bulb	CFL	W/ bulb
Main building	Ground floor	30	22	63	40
	First floor	24	22	-	-
	Second floor	17	22	-	-
Founders' memorial auditorium	Ground floor	16	22	30	40
	First floor	33	22	37	40
Science building	Ground floor	50	22	-	-
	First floor	34	22	-	-
	Second floor	33	22	-	-
Self-finance building	Ground floor	8	22	-	-
	First floor	10	22	-	-
	Second floor	44	22	-	-
Golden jubilee building	Ground floor	34	22	-	-
	First floor	14	22	-	-
	Second floor	8	22	-	-
PG building	Ground floor	12	22	-	-

	First floor	11	22	-	-
Indoor stadium	Ground floor	11	22	-	-
	First floor	5	22	-	-
Women's Hostel	Ground floor	6	22	22	40
	First floor	2	22	16	40
Gym		5	22	-	-
Street lamps		20	22	-	-

Name of the Document: LED Bulbs





Name of the Document: Computer Science Lab with LED monitors



Handwritten signature
PRINCIPAL
Hajee Karutha Rowther Howdia College
(Autonomous)
UTHAMAPALAYAM-625533.