



SRES's
SHREE RAMCHANDRA COLLEGE OF ENGINEERING
Lonikand, Pune – 412216

Geo Tag Photos Of Facilities For Alternate Sources Of Energy And Energy Conservation Measures

1. Solar Energy:

Solar Water Heaters:

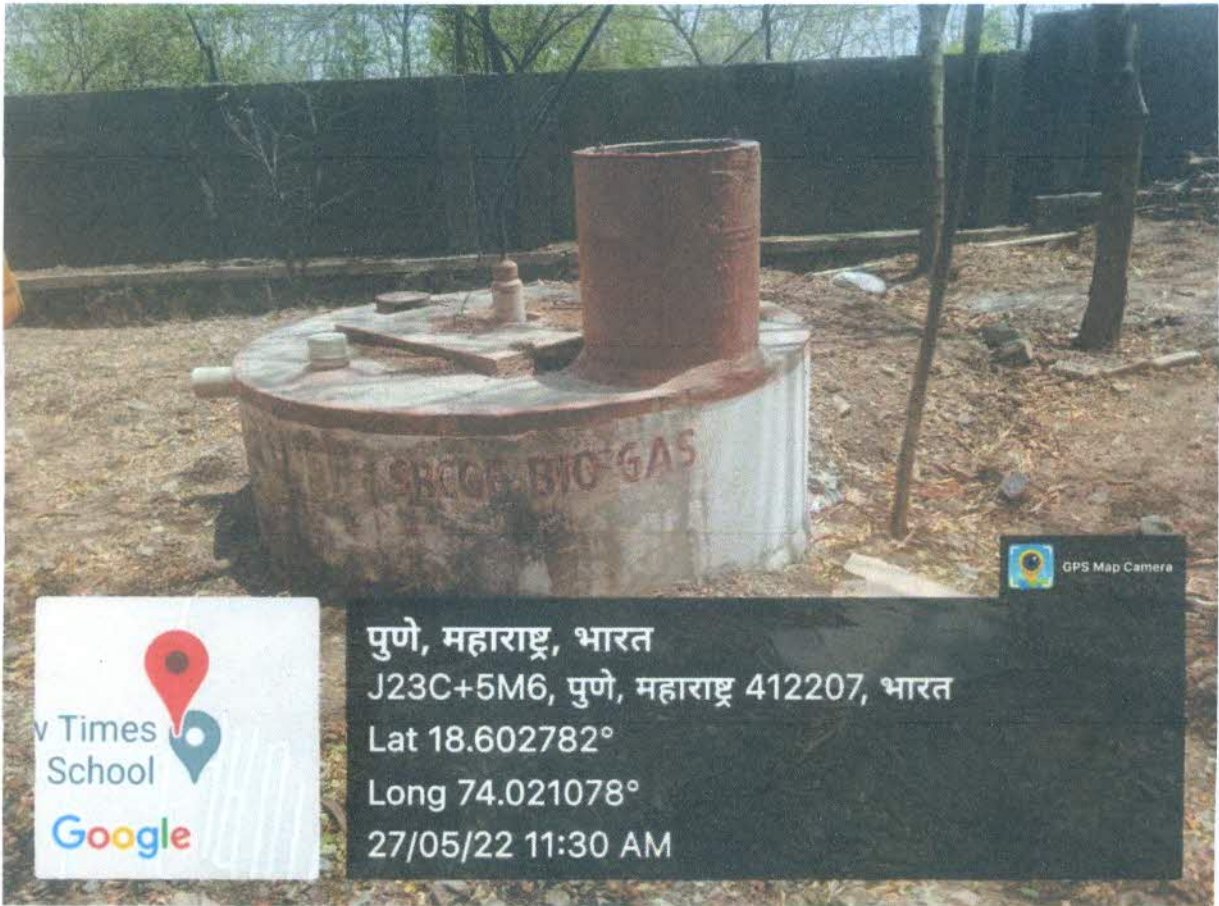


[Handwritten signature]



[Handwritten signature]

2. Biogas plant:



[Handwritten signature]



3. Wheeling To The Grid: Solar Plant



GPS Map
Camera Lite

H2XC+56P, Pune, Maharashtra 412207, India

Latitude 18.597301666666667° Longitude 74.020631666666667°

Local 03:51:48 PM Altitude 624.9 meters
GMT 10:21:48 AM Thursday, 02-06-2022

Note : Shree Ramchandra College Of Engineering
Solar





H2XC+56P, Pune, Maharashtra 412207, India

Latitude 18.597151666666665° Longitude 74.02073333333333°

Local 03:49:38 PM Altitude 624.1 meters
GMT 10:19:38 AM Thursday, 02-06-2022

Note : Shree Ramchandra College Of Engineering
Solar

Blans



Amr

4. Sensor-Based Energy Conservation Power Factor:

Power Efficient Appliances:



Bakori Road, Krishana Kunj Society, Phase 01, Near Ramachandra Engineering, College, Maharashtra 412207, India

Latitude

18.59695365°

Longitude

74.02070649°

Local 03:12:41 PM

GMT 09:42:41 AM

Altitude 487.45 meters

Monday, 13-06-2022

Note : Shree Ramchandra college of Engineering Ionikand

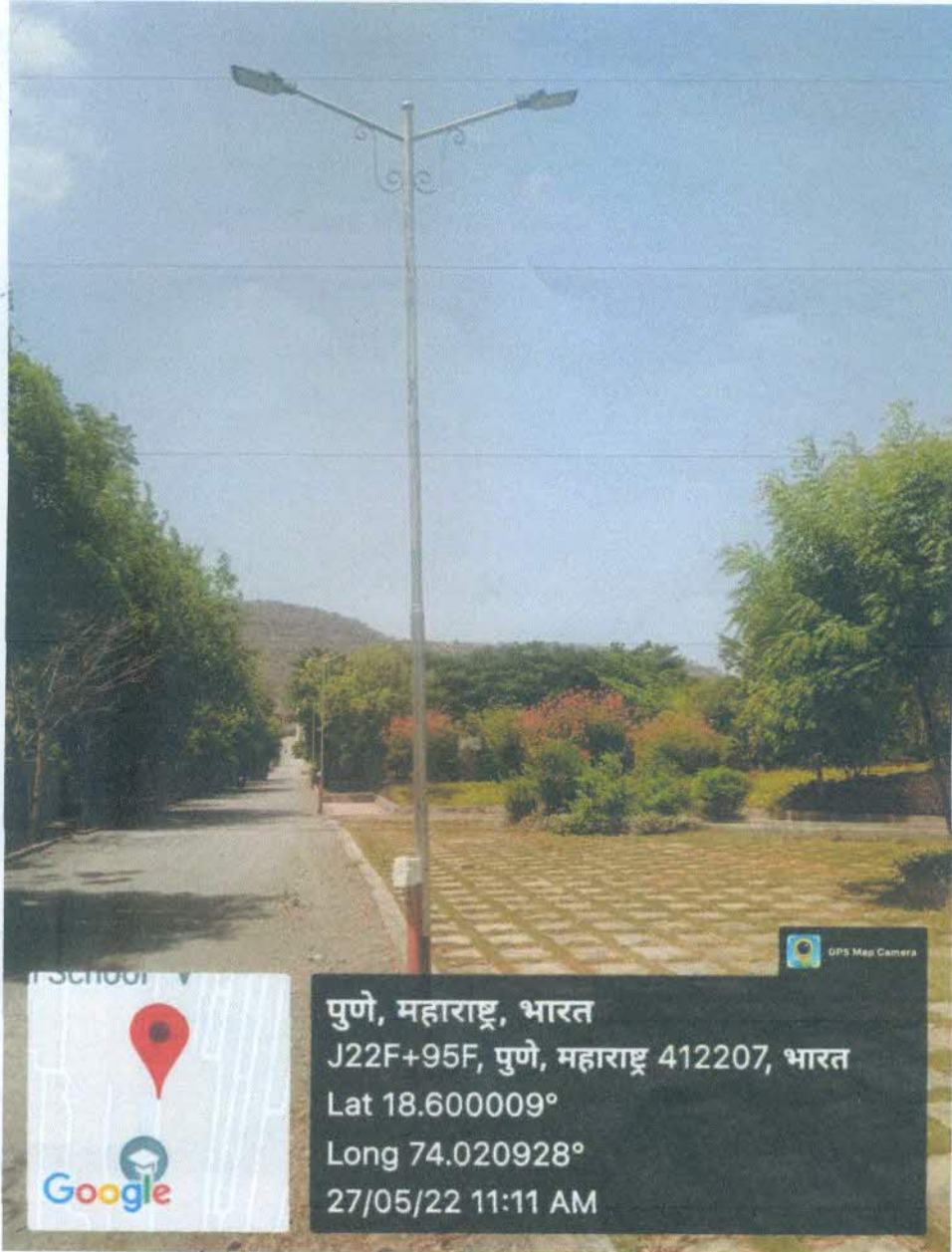
Blus



Blus

5. Use of LED bulbs/ power efficient equipment:

LED Street Lights



Blus



Shree

7.1.2 Usage of Solar Thermal Water Heating System

Installation of roof top solar panels on top of hostel buildings so as to cater for hot water requirement of hostel students. Capacity of these solar panels is 9,000 Litres of hot water per day. This gives approximate saving of electricity up to 1,35,000 Wh/year.

The College has Boy's and Girl's Hostel Facility wherein. For the purpose of Water Heating the Institute has installed Solar Thermal Water Heating System of Capacity 9000 LPD. In the following Table, we present the saving achieved in Electrical Energy in kWh, on installation of Solar Thermal Water Heating System.

Sr.No.	Particulars	Value
1	Electrical Energy saved by 100 LPD System	1500 Wh/Annum
2	Total Solar Thermal System Capacity	9000 LPD
3	Total annual saving in Electrical Energy	135000 Wh/Annum

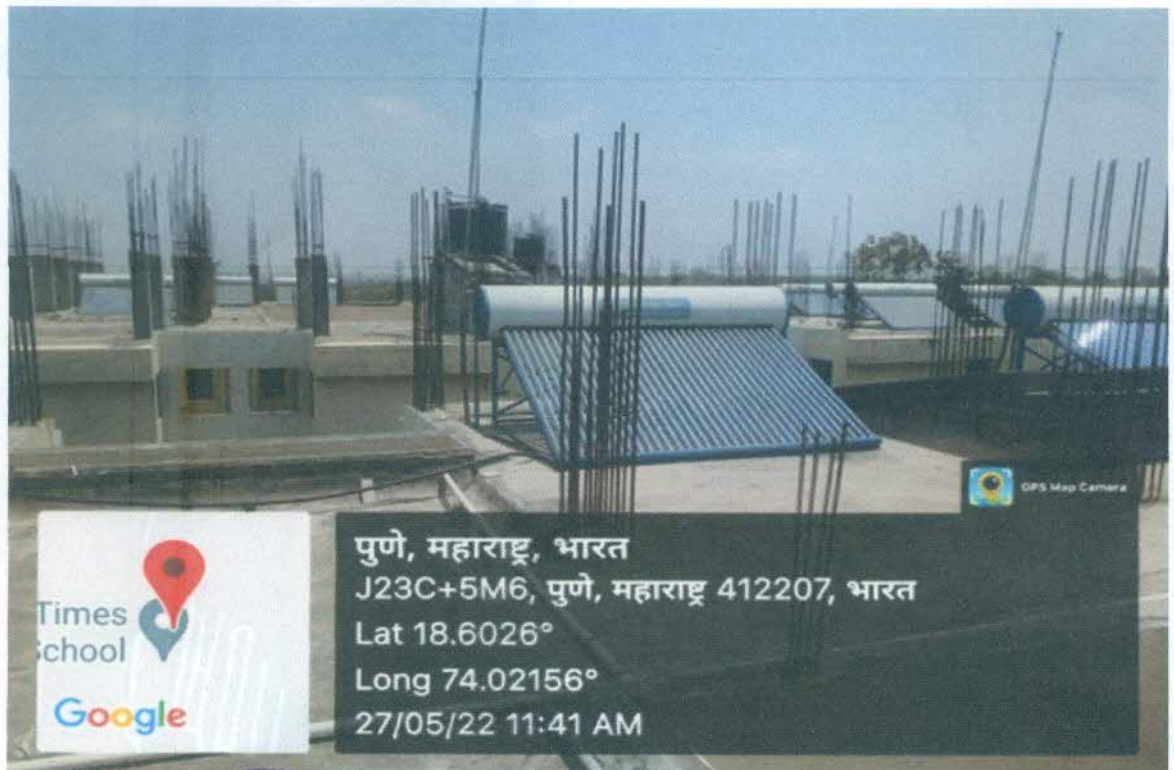


Fig. Solar Water Heating System

7.1.2 Use of LED bulbs/ power efficient equipment

Our college has 11KV/440V Distribution Transformer within college premises and was able to convert the existing T5 tubelight outdoor light fittings into LED outdoor lightings, as a consequence an amount of Rs.150000 (One lakh Fifteen thousand only) (Approx.) has been saved since May, 2021 to May, 2022.

The college management has provided following facilities in conserving the energy and power efficient equipment Master Switches for each Room to shut down power of entire room when not in use. CRT monitors are replaced with LCD/LED Monitors.

The LED fittings with higher rating wattage are replaced with T5 fittings with lower wattage with the same luminous level in street Lights and other possible areas of Campus. Energy Star certified products installed in the campus are air conditioners, refrigerator, ceiling fan and others.

Sr No.	Name of Equipment	Quantity	Wattage	Total Watt
1	LED Street Light	40	30	1200
2	LED Panel Light	50	45	2250

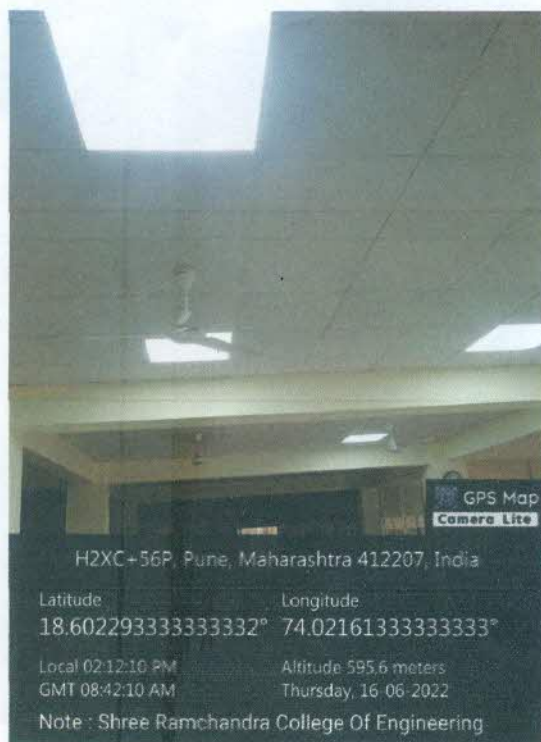


Fig1. LED Inner light



Fig2. LED Street Light

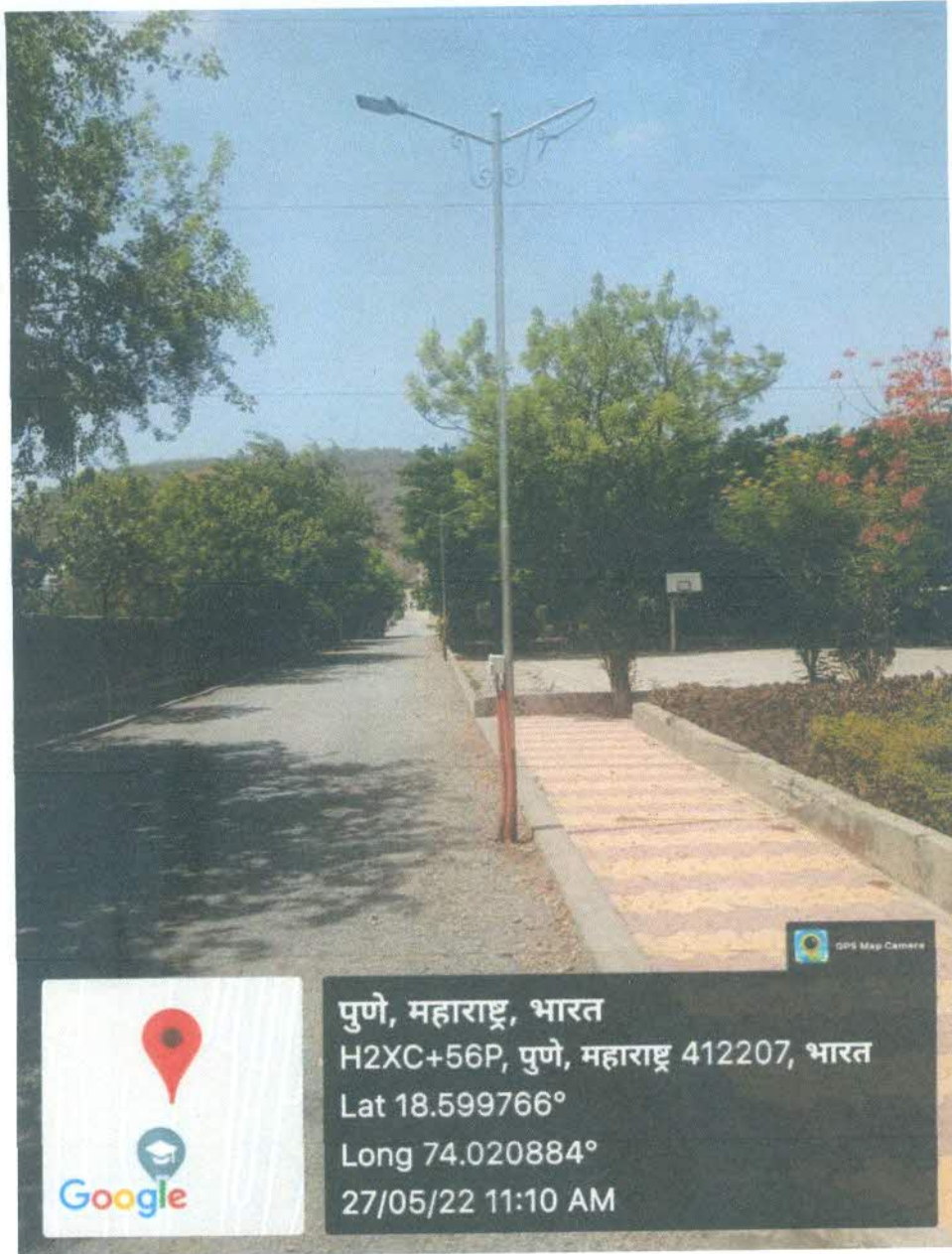
[Handwritten signature]



[Handwritten signature]

Geo Tag Photos:

1. LED Street Light

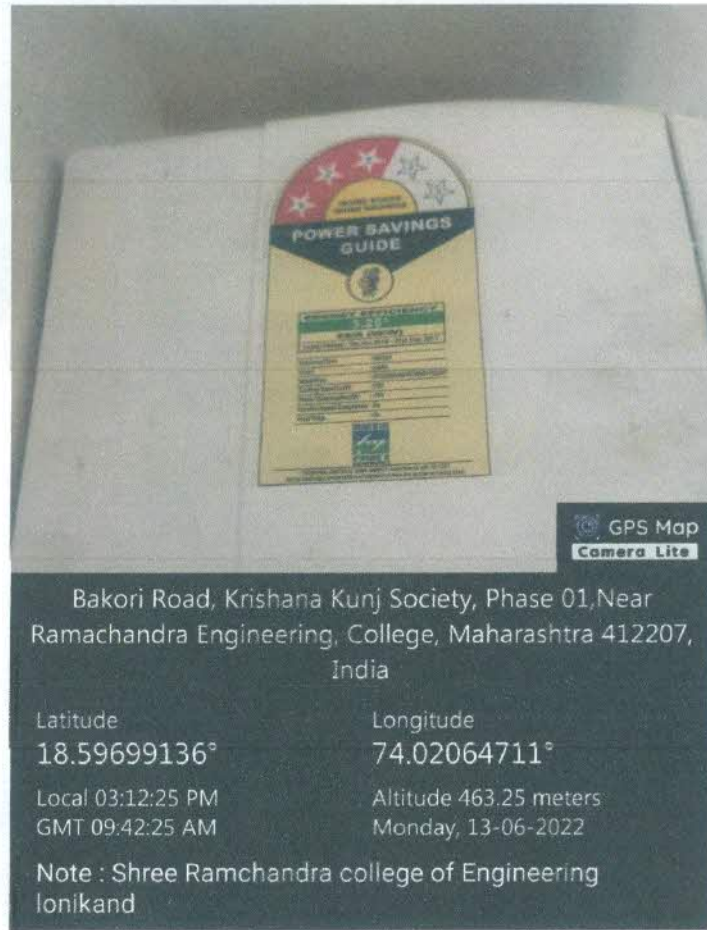
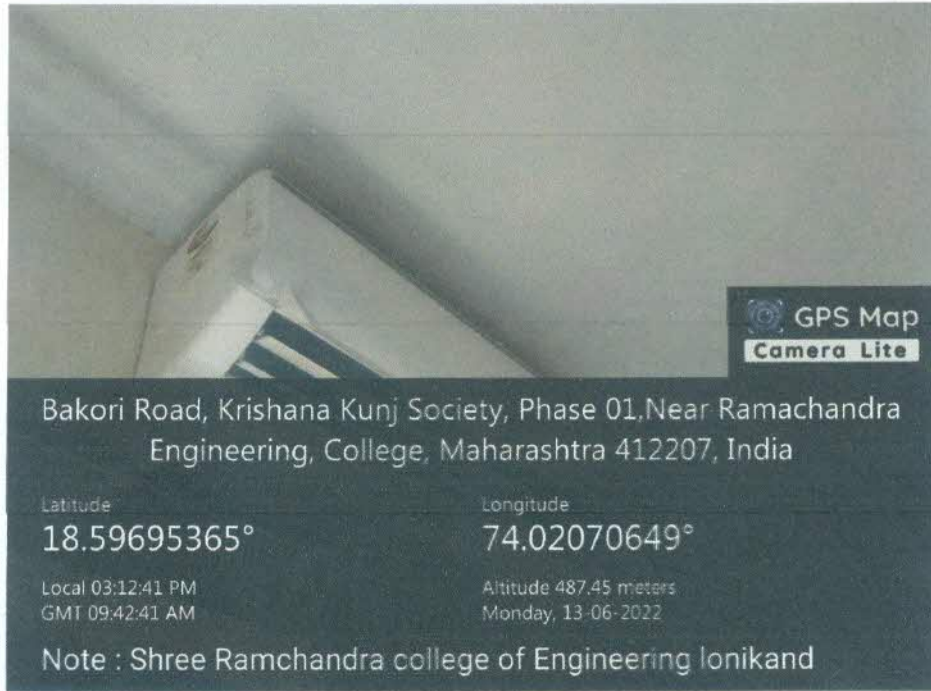


J. B. S.



[Signature]

2. Power Efficient Equipment:



[Handwritten signature]



[Handwritten signature]