



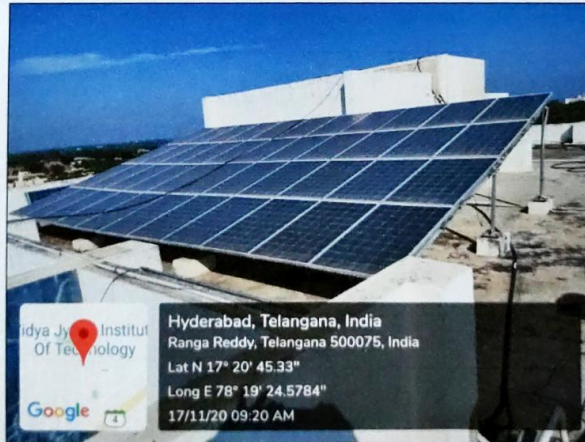
# Vidya Jyothi Institute of Technology (Autonomous)

(Accredited by NAAC Approved By A.I.C.T.E., New Delhi, Permanently Affiliated to JNTU, Hyd)  
Aziz Nagar, C.B.Post, Hyderabad -500075

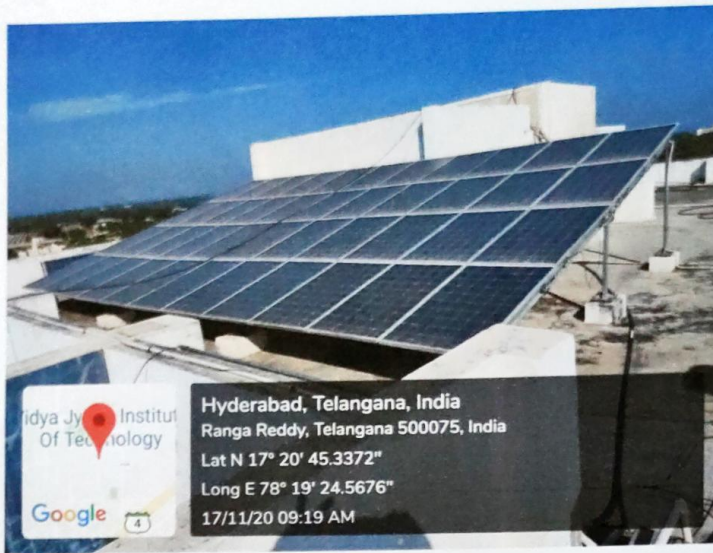
## 7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

### 1. Solar Energy

The objective of using Solar Energy in the campus is to reduce CO<sub>2</sub> emissions from the generating stations and to create any eco-friendly environment. The Solar Plant is equipped with 100 kW capacity which has 25KW \* 4 Nos of roof top PV Panels, Microcontrollers and Inverter. The Solar plant supplies power in addition to the Power from the Grid. This reduces the burden on the Grid. The solar plant generates 400 kWh per day. This energy is consumed with in the campus and a partial amount is supplied to the grid.

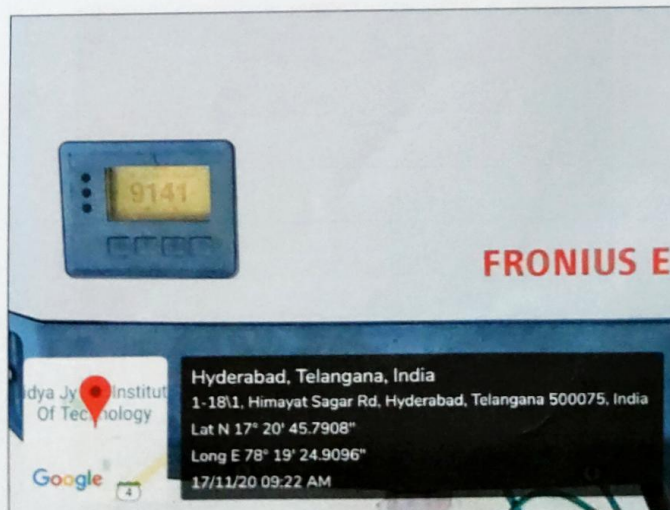


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## 2. Wheeling to Grid

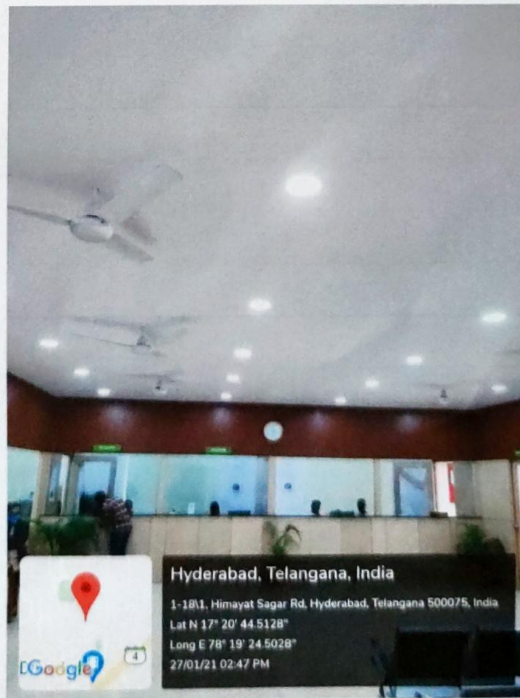
The Solar Plant also sends the energy to the Grid during Low load conditions in the Campus. Electrical power is wheeled back to the Grid every month after the consumption of solar power in the campus. This helps the Grid in supplying the energy to other loads during that period.



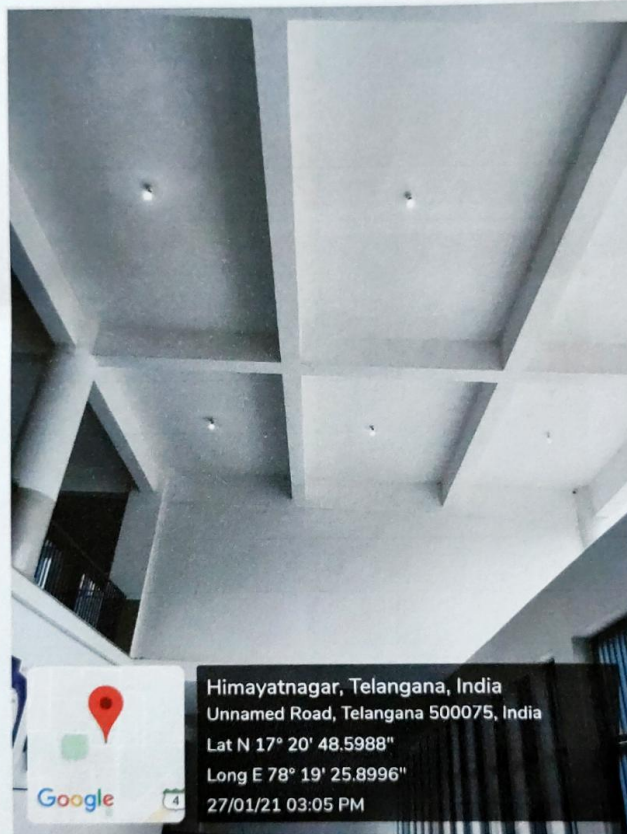
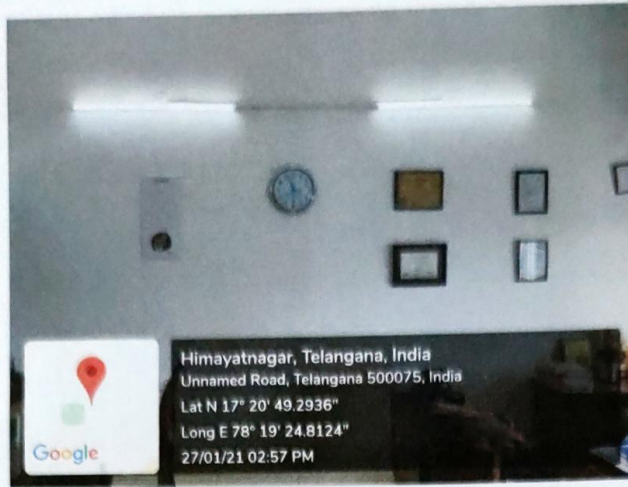


### 3. Use of LED Bulbs/ power efficient equipment

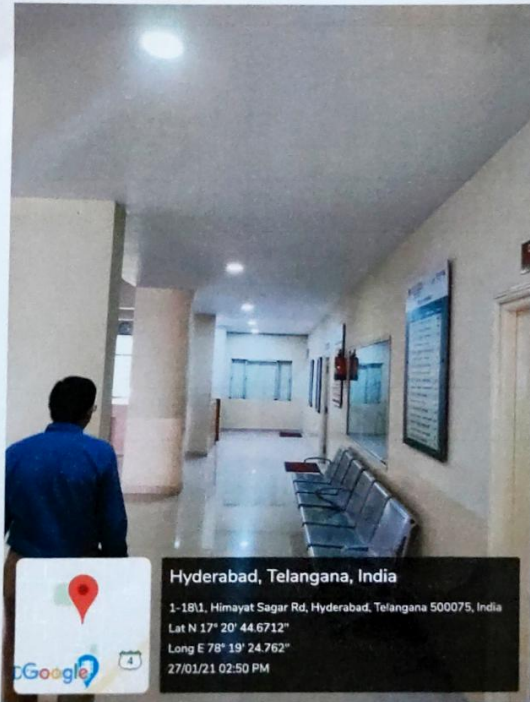
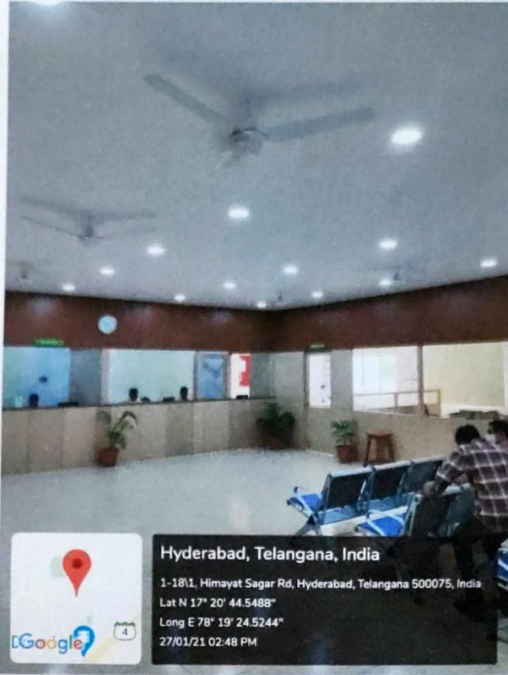
The campus is installed with energy efficient LED lamps which will cover 75% of lightings of the Institute. All the existing conventional florescent lamps are being replaced with LED lamps at the end of their life cycle. Air conditioners and water refrigerators are BEE star rated and are energy efficient. Automatic Power Factor Corrector of 200kVAR rating is also installed to improve the power factor for variable load. Exclusive Solar PV panels based lighting is used in Electrical department staff room.



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