Criterion-7 Institutional Values And Best Practices 7.1.2 The Institution has facilities for Alternate Sources of Energy and EnergyConservation Measures

1. Solar energy

As an initiative to adopt renewable energy generation, the Institute has encouraged the students of electrical engineering department to work on the real time project of illuminating street lights in the campus with Solar Energy. As a part of this, the department of EEE at DIET collaborated with EFFISOL Energy Solutions Pvt. Ltd to erect an Off Grid solar PV system with an installed capacity of 2kVA MPPT Technology based solar inverter, six solar panels rated at 1.92kwp and 08 solar batteries with 150Ah rating to meet the street light illumination needs at college premises.

An off grid 2 kwp solar-systems designed and implemented for illumination of LED Street lights in college campus. In order to compute the off-grid solar system components, solar data for Visakhapatnam district is obtained from NREL web site. The design was done based on the shortest day of the year. The solar system set to supply load current for 12 hrs during night time automatically with digital programmable timer.

Project mainly focused on various design aspects like PV sizing, battery sizing and MPPT based inverter sizing also required protection like DC and AC side earthling along with lightening arrester followed by cable sizing. In this computation the shortest day of the year has been assumed. Although the total design is acceptable from engineering point of view, from economical view of the total cost of system is higher than tease that has been designed for summer days.



Solar Panels provided at the entrance of the Institution

Dadi Institute of Engineering & Technology

(Approved by A.I.C.T.E., New Delhi & Affiliated to J.N.T.U.K., Kakinada) NAAC Accredited Institute An ISO 9001 : 2008, ISO 14001 : 2004 & OHSAS 18001 : 2007 Certified Institution NII-5, Anakapalle, Visakhapatnam-531002, A.P. Ph. : 08924-221111,22,33, 9963981111 / www.diet.edu.in / e-mail : info@diet.edu.in

Lr. No.131 Engg./P.O./2018

Date: 10-10-2018

To

New Won

EffiSol Energy Solution Pvt.Ltd. #16-200, Prahaladapuram, <u>Visakhapatnam-530 027</u>.

Dear Sir,

Sub: Purchase Order for 2KW Off-Grid Solar PV System - Reg.

Ref: EFFISOL/Q/2018/06/2, dated 08/06/2018.

With reference to your Proposal cited above, I am herewith placing the Purchase order for 2KW Off-Grid Solar PV System.

S. No	Item Description	Qty	Unit Price	GST	GST Amount	Amount
1.	Off-grid Solar PV System with 2 KVA MPPT Technology Based Soar Inverter, 1.92 kWp Solar Panels and 8numbers of 150 Ah Solar Batteries along with required materials for installation. Automatic Timer Controller,	1	2.07,000	5 %	10,350	2,17,350

(Rupees Two lakhs seventeen thousand and three hundred fifty only)

We are herewith paying an advance amount of Rs .1,00,000 /- through RTGS.

Terms & Conditions:

- 1. The price is inclusive of all taxes
- The equipment shall be under warranty (10 years Modules) (3 years for Inverters) (5 years for Batteries).
- 3. 50 % advance along with purchase order.
- 4. The equipment shall be delivered at the college address within 10 days.
- 5. Remaining payment will be done after commissioning of Solar System.

Thanking you,



Yours Sincerely, (D DI RATNAKAR) Correspondent

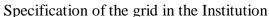
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		Visakhapatnam - 531 India Contact Person : Mr. Phone :	Dadi Ratnakar			Prahaladapura Visakhapatnar	m. n-530 027.						
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Bills of Solar Panel System Installed in the Institute

2.Wheeling to the Grid

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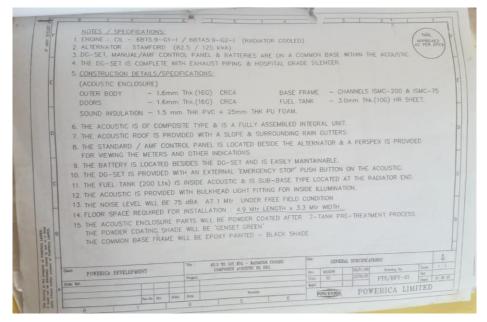




Devices installed for wheeling to the Grid



Transformer and Wheeling to the Grid at South-East portion of the Institution



Instructions and notes regarding specifications and construction details of the wheeling to the grid

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E. & O.E	1 Chest and	1,100.00	-	1,188.00	1	13,200.0	₹ 15,576.00		-		6 NO'S		X -1-		
	Total		Otata To						100				Tota		
Amount	Tax Amo	mount	State To	Flate	ax nount	Central	Taxable	-	-		Six Only	Seventy	words) INR Fifteen Thousand Five Hundred	sunt Chargeable (in	
2,376.00		1,188.00			1,188.00	Rate A 9%	Value 13,200.00	-							
2,376.00	2,37	1.188.00				3.70		Total:							
		1,100.00)	1,188.00		13,200.00								

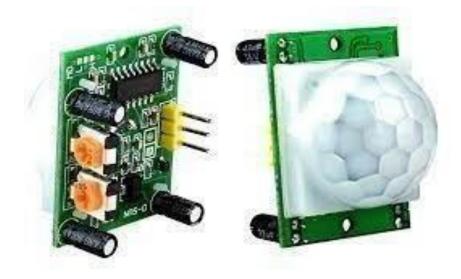
Invoice of the wheeling to the grid

3. Sensor Based Energy Conservation

At DIET, the concept of Home Automation is introduced to reduce the usage of power through different mechanisms in which the PIR sensor plays a key role which detects if any movement occurs in specified range, in case of any motion detected, the sensors give the signal of motion to the microcontroller.

The ARDUINO UNO is the micro controller used to process the data in this model, where the data pins in the controller are used to recognize the signal from the PIR sensor, if the signal received from PIR is high, the output device will be switched ON and if the signal received from the PIR is low then the output device will be switched OFF. RELAY is used to protect the electronic devices from the high-power AC supply and act as a switch.

Also, an Android Application has been developed where, through the Bluetooth from mobile control signals are relayed through wireless medium to Bluetooth HC-05 Module. From Bluetooth Module control signals are relayed to Arduino Micro Controller where it controls the output pins. Output in connected to Relays (Magnetic Switch)

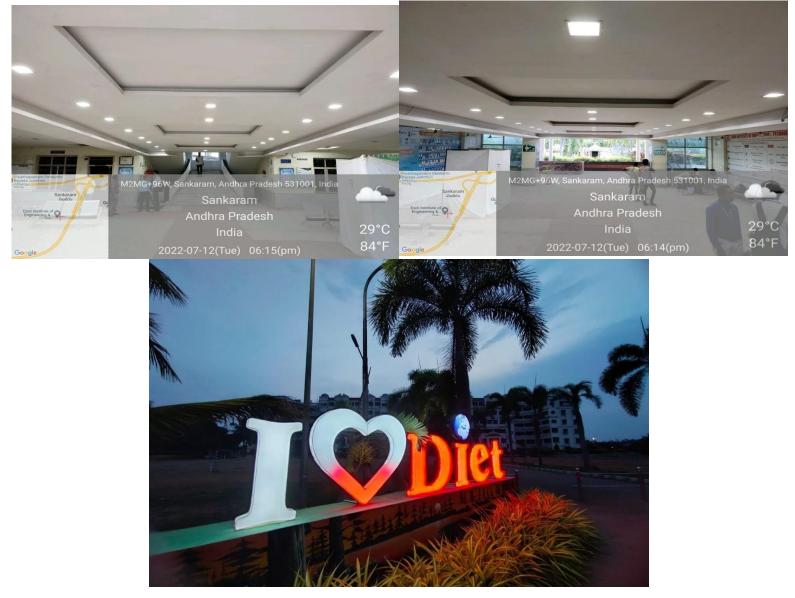


Sensor PIR



4. Use of LED Bulbs/Power Efficient Equipment

DIET is illuminated with Environmental friendly LED [Light Emitting Diode] Lights all over the campus with ratings as per the required luminous intensity at a given location. The details of exterior and interior lighting are provided below:



LED Lights in the campus

External Lighting:

	List of LED Lights used for External Lightings								
S.No	Description	Count of LED Bulbs							
1	40W LED Lights at the Main Gate Cost-Rs.4000 each	4							
2	120W Solar based Lights Cost-Rs.8000each	9							
3	24W - Street Lights - Ground Cost-Rs.2500 each	40							
4	80W - Ground Cost-Rs.6000 each	9							

Interior Lighting:

List of LED Lights used for Interior Lightings

S.No	Description	Count of LED Bulbs
1	24W - Ground Floor Corridor Cost-Rs.2500 each	30
2	12W - Ground Floor Corridor Cost-Rs.120each	60
3	15W - Ground Floor Corridor Cost-Rs.600each	10
4	1 st Floor to 5 th Floor - 10 LED Lights per each floor Cost-Rs.120 each	50
5	LED Tube Lights of 24W are placed at Admission Office, Exam Cell, Principal Office, Diploma Office, SeminarHall2, Music Room, Library and Chairman Office with Cost-Rs.300each	45
6	Seminar Hall lighting - 40W Flood Lights 4000each	2
7	100W Lights costing Rs.5500 each	2