#### ENVIRONMENTAL CONSCIOUSNESS AND SUSTAINABILITY

## **Alternate Energy Initiatives Such as:**

# Percentage of annual power requirement of the Institution met by the renewable energy sources

### 64.77%

A Solar panel has been installed in the campus (documents annexed in this regard) which is being used as a renewable source of energy to generate power.

- Date of Installation of Solar Plant: 07-09-2016
- Units Produced: 1,56,921
- Rate per Unit =Rs. 4.65
- Amount Saved= Rs. 7,29,682.65

## Total annual power requirement (in KWH)

- Total Annual Power Requirement met out by H.P State Electricity department =28,199 KWH
- Annual Power requirement met out of Solar Panel and Grid = 52,085 KWH
- Total (Annual) Power Consumption = 28,199+ 52085 = 80,284 KWH
- Cost of one unit in H.P.= Rs 4.65
- Money Saved Per Annum =  $52,085 \times 4.65 = Rs. 2,42,195.25$

#### **Table 1 Energy Production and Consumption Chart**

Energy Consumption before	Energy Consumption after	Total Reduction after
Installation of Solar Panel	Installation of Solar Panel	Installation of Solar Panel
KWh (21 <sup>st</sup> July, 2015)	KWh (22 <sup>nd</sup> July, 2018)	(KWh)
740	130	610



Figure 1 Solar light meter reflecting units produced



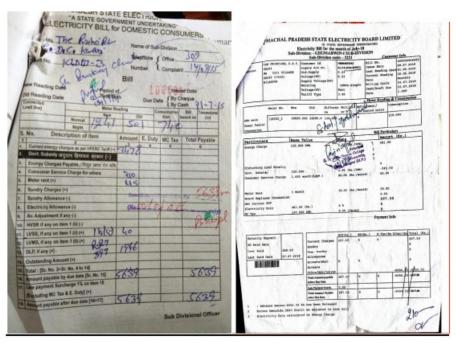
Figure 2 Solar panels installed on the roof of college building



**Figure 3 Solar Power House** 

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Figure 4 Report showing expenses incurred on installation of solar plant



**Figure 5 Electricity Bills** 

