

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

Energy management

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

Solar Power Plant

Total Contract Demand in KW	239
Capacity of Solar Power Plant	10

Total Contract Demand in KW	239
Capacity of Solar Power Plant	10
Percentage of annual power requirement of the Institution met by the renewable energy sources.	4.2 %

Table 1: Percentage of annual power requirement of the Institution met by the renewable energy sources.

Graphical Representation of Percentage of annual power requirement of the Institution met by the renewable energy sources.

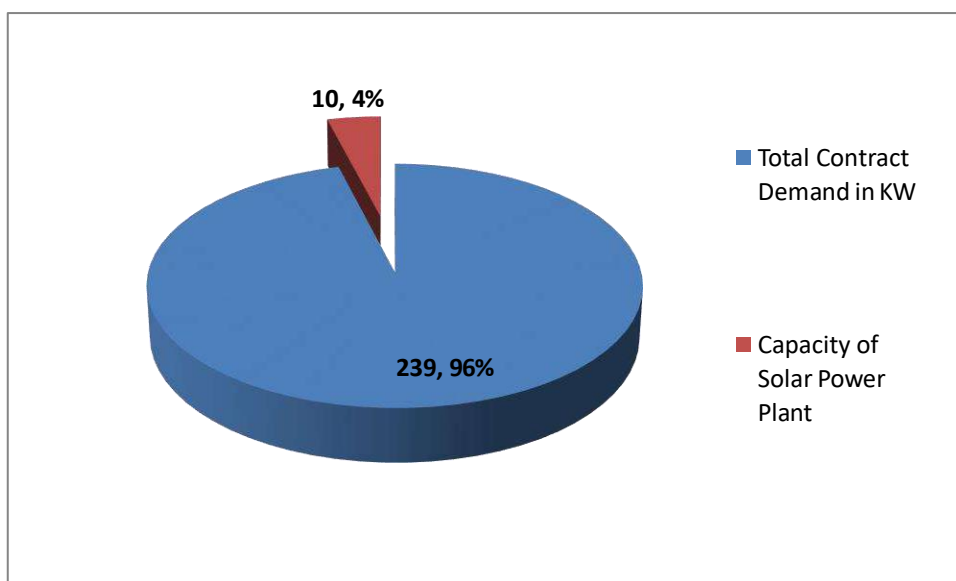


Figure 1: Graphical Representation of Percentage of annual power requirement of the Institution met by the renewable energy sources.

Thus, Solar power contributes 4 % of total power requirement in college.

Percentage of annual lighting power requirements met through LED bulbs.

Types of Lightings	College Premises	Azad Hostel	Total
LED Lighting Load	24191	2498	26689
Conventional Lighting Load	22036	3800	25836
Total Lighting Load	46227	6298	52525
Percentage of annual lighting power requirements met through LED bulbs			51

Table 2: Percentage of annual lighting power requirements met through LED bulbs

Graphical Representation of Percentage of annual lighting power requirements met through LED bulbs

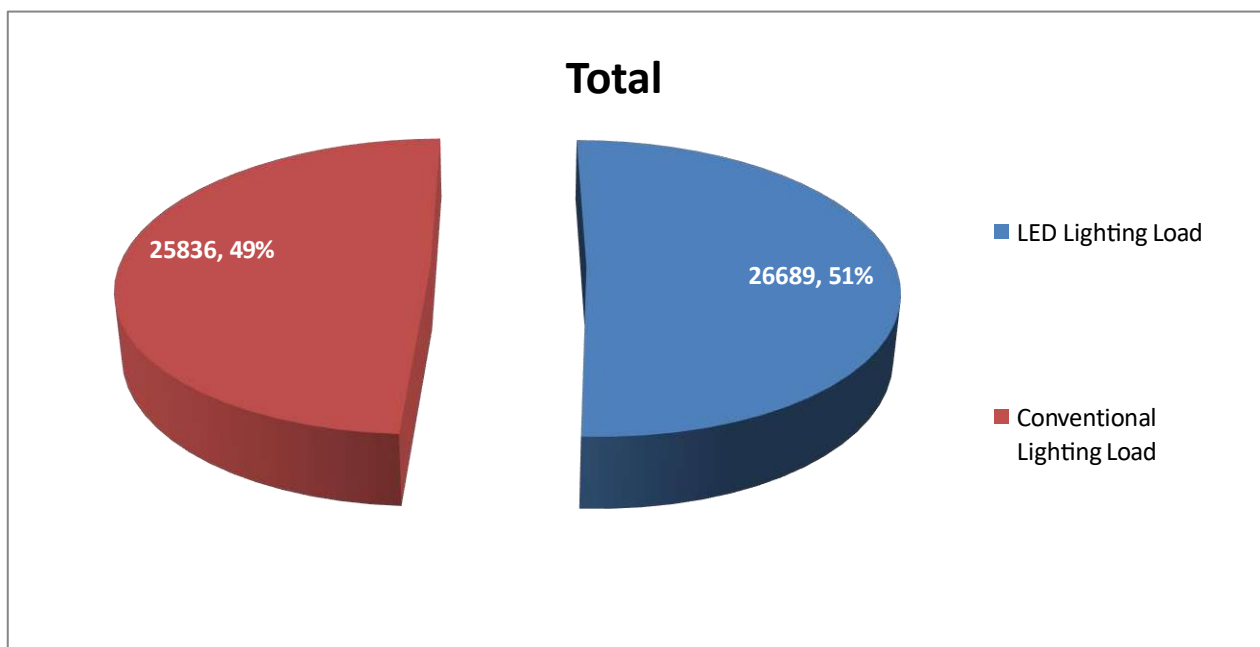


Figure 2: Graphical Representation of Percentage of annual lighting power requirements met through LED bulbs

Thus, LED lighting covers 51% of total lighting power requirement.

Installation of Motion Detectors in college premises

It has been estimated that a single unit of energy saved at the end use point is equal to 2.3 units of energy produced. Keeping this in mind, College has installed motion sensors at different important rooms in college.



Motion sensors automatically turn outdoor lights on when they detect motion and turn them off a short while later. They are very useful for outdoor security and utility lighting as seen from above pictures.



Principal
Govt. V.Y.T.P.G Autonomous College,
Durg