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Brief Report of LED bulbs/ Power efficient equipment

Invertis University is highly conscious about its Energy Efficiency and cost and has initiated several measures to reduce the energy consumption, which include replacement of conventional lamps with LEDs. Energy Efficient LED Lights offer reduction in the power consumption besides excellent colour rendering properties and high luminous efficacy. Lighting fixtures are installed in different areas and locations. Not only this the existing Non-star or 3-star ACs have been replaced with 5-star ACs for more energy savings. The power consumption of AC depends upon its EER rating and due to this the 5-star ACs are more energy efficient. A 5-star air conditioner is the most energy-efficient appliance that has been rated by the Bureau of Energy Efficiency (BEE). It is a high-end air conditioner that is much more efficient than a 3-star air conditioner. A 5-star air conditioner typically consumes around 20-30% less electricity than a 3-star air conditioner.

The energy efficiency and considerable lifespan of LED technology holds all the potential for changing the way organizations brighten their facilities by reducing the cost of electricity and overall energy used.

Installing LED lights has helped in saving energy to a great extent. They use 90% less energy than incandescent bulbs and lasts up to 40 times longer by offering high quality light output.

LED lighting fixtures are more beneficial for conserving the environment as they emit almost no heat or UV Emissions. These lighting solutions has helped a lot in maintaining quality light in campus, and helping in cutting down cost in comparison to the purchasing of regular incandescent lights.

The high efficiency and directional nature of LEDs makes them ideal for many uses. These has been installed in parking areas, walkways, classrooms, hostels, conference rooms, seminar halls, admin building, etc.

Few of the advantages of LED lights include:

1. Design flexibility
2. Instant lighting and the ability to withstand frequent switching
3. Low Voltage operation
4. Dimming capabilities
5. Long Lifespan
6. Energy Efficient
7. Environmental friendly
8. The ability to operate in cold conditions
9. No heat or UV Emissions

Advantages of 5-star ACs:

1. One benefit of 5-star air conditioners is that they are more power- and energy-efficient.
2. They are highly capable of cooling.
3. They are more capable of handling power fluctuations with ease.

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Types of LED Light Installed

S.No	Fixture	Power Rating (Watt)
1.	LED Tube (18W)	18
2.	LED Tube (12W)	12
3.	LED COBE (18W)	18
4.	LED Round (36W)	36
5.	LED-36W (2'x2')	36
6.	LED Light (30W)	30
7.	LED Light (60W)	60
8.	LED Light (200W)	200

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