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Brief Report of Sensor Based Energy Conservation

Invertis University has installed range of motion sensor lights to prevent wastage of electricity, thus lowering energy consumption and cost. These sensor lights are easy to use, reliable, secure, code-compliant, and environment friendly. The motion-sensored lighting system is one of the requirements and need of today's world. A motion sensor light is an electrical system that works when motion is detected in the area. Essentially, the light bulb connects with the sensors that switch on in response to human movement. The process of how the motion sensor light works depends on the type of detector. The most common motion detectors are passive infrared, active infrared, microwave, photoelectric, and dual technology.

Sensor based lights have been installed at various locations within the campus including main gate entrance, library entrance, offices, parking area, washrooms etc. This not only saves energy but also acts as a security light for the safety of the campus.

Advantages of Sensor Based lights:


1. This system is very efficient as it automatically switches off the luminaires when there is no presence detected (for a predefine time). As a result, the end-user saves on electricity consumption.
2. Turning on the lights is as easy as walking inside a room. The lighting system automatically turn off the lights when it does not sense any movement for a certain period of time.
3. Installing sensor lights on the pathways are more effective where otherwise installing switches makes using the lights less user-friendly.

Details of motion sensor lights:

SL. NO.	Location	TYPES OF LIGHT	NO. OF LIGHT
1.	MAIN GATE	Sensor LED Bulb	2
2.	ADMIN OFFICE MAIN ENTRANCE	Sensor LED Bulb	1
3.	ADMIN OFFICE	Sensor LED Bulb	1
4.	MARCOM OFFICE	Sensor LED Bulb	1
5.	M-BLOCK SIDE POLE	Sensor LED Bulb	1
6.	FRONT OF PETROL PUMP	Sensor streetlight	3
7.	FRONT OF AUDITORIUM POLE	Sensor streetlight	3
8.	PARKING AREA	Sensor streetlight	3
9.	LIBRARY ENTRANCE	Sensor streetlight	4
10.	WASHROOMS	Sensor LED Bulb	4



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