

ROI (RETURN ON INVESTMENT)

S. No.	For Commercial Meter	Without PIR Motion Sensor	With One PIR Motion Sensor
1	Power capacity of total connected light's load	2000 watts	2000 watts
2	Operational hours of connected light's load	12	6
3	Total consumption in watts per day	24000	12000
4	Number of days in a month	30	30
5	Total power used by connected light's load in KW	720000W = 720 KW	360000W = 360 KW
6	Cost of electricity per KW in Rupees	10	10
7	Amount paid per month @ Rupees 10 per unit	7200.00	3600.00
8	Savings per month on connected light's in Rupees	0	3600.00

***** For higher wattage Electrical Appliances the saving will be much more accordingly.**

For Example:-

Investment on One PIR sensor = Rupees 1500.00
 Rupees 3600 recovered in 30 days (As per above table)
 Rupees 1500 recovers in how many days?

= $1500/3600 \times 30$ days
 = 12.50 or say 13 days maximum

If Sensor is used for 12 Months, you will save Rupees 43200(12 months x Rupees 3600).

Therefore cost saving in 1st year will be Rupees 43200 – 1500 (cost of one PIR) = Rupees 41700/-

Not only you will recover the cost of one PIR Sensor but also you will save electricity worth of Rupees 41700/- in 1st year & Rupees 43200 for every next years. Moreover the approximately life of sensor is minimum 6 to 8 years, therefore in 5 years you can save Rupees 2, 13,650/- (1st year x 40850 & for 2nd, 3rd, 4th & 5th year Rupees 43200 each).