



gradus<sup>TM</sup>

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# VIKRAM HOSPITAL

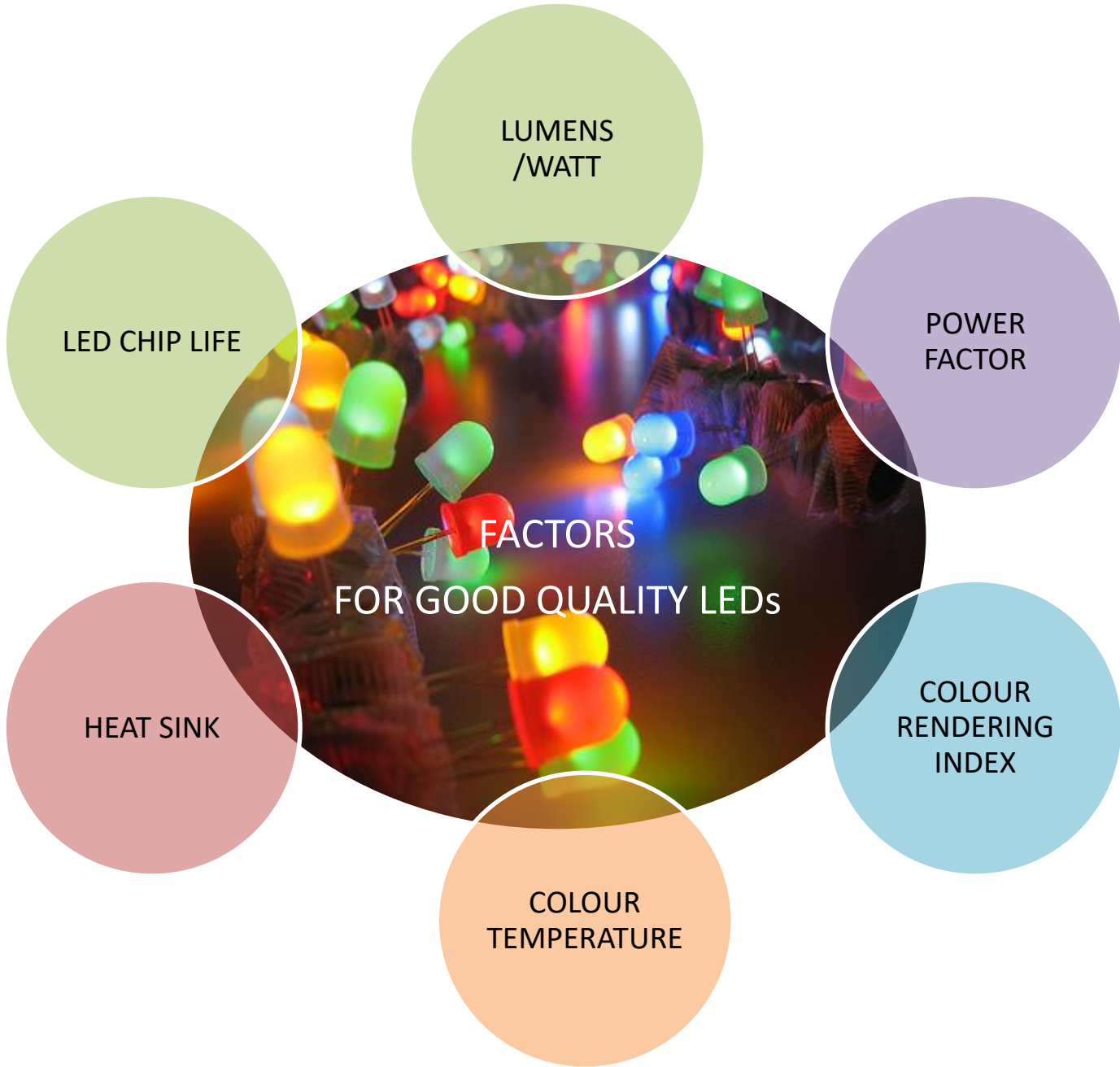


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LUMENS  
/WATT

POWER  
FACTOR

LED CHIP LIFE

FACTORS  
FOR GOOD QUALITY LEDs

COLOUR  
RENDERING  
INDEX

HEAT SINK

COLOUR  
TEMPERATURE

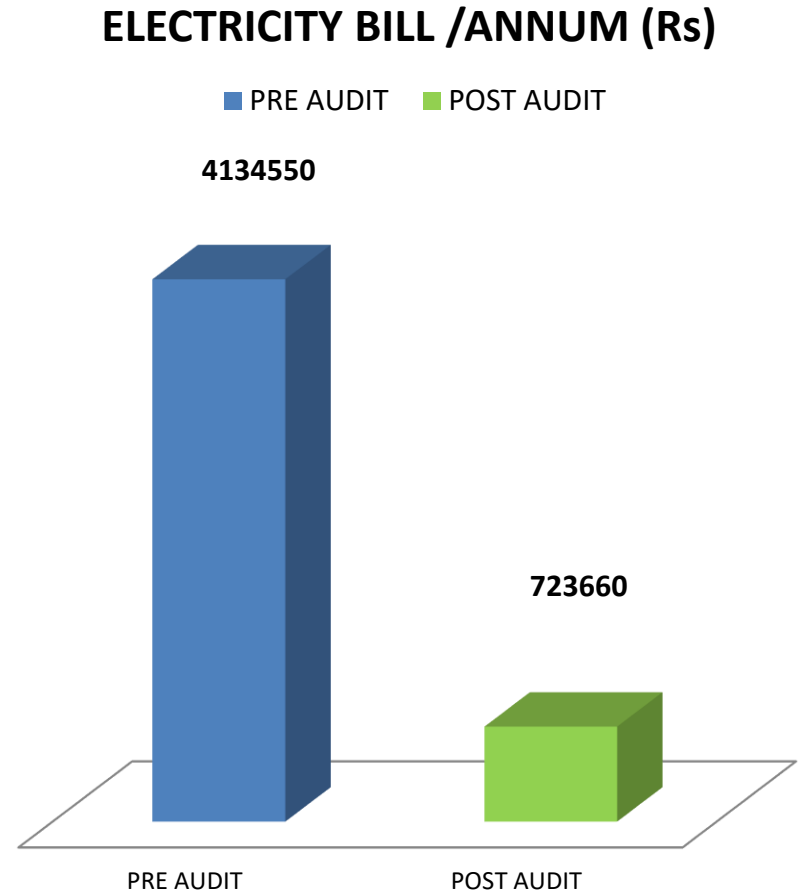
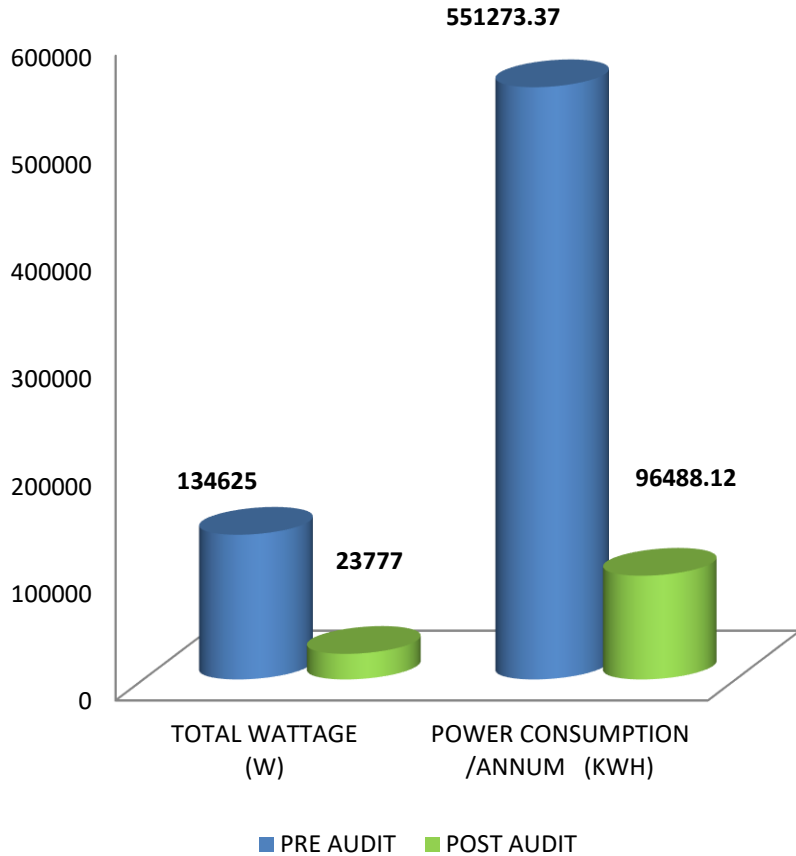
# CASE STUDY

FLOORS	PRE AUDIT			POST AUDIT		
	Compact fluroscent lamps(CFL)			light emitting diode (LED) lamps		
	TOTAL WATTAGE (WATTS)	POWER CONSUMPTION /ANNUM (KWH)	ELECTRICITY BILL /ANNUM (Rs)	TOTAL WATTAGE (WATTS)	POWER CONSUMPTION /ANNUM (KWH)	ELECTRICITY BILL /ANNUM (Rs)
GROUND FLOOR	16918	62623	469672	3372	10352	77640
1 <sup>ST</sup> FLOOR	18910	69832	523743	3267	12210	91577
2 <sup>ND</sup> FLOOR	11531	43134	323506	3004	11340	85054
3 <sup>RD</sup> FLOOR	16312	47530	356477	1966	6825	51191
4 <sup>TH</sup> FLOOR	13315	47901	359264	2602	10298	77235
5 <sup>TH</sup> FLOOR	17005	79704	597782	2664	13766	103247
6 <sup>TH</sup> FLOOR	16841	114861	861458	2386	14786	110901
7 <sup>TH</sup> FLOOR	11409	33178	248838	2030	6491	48689
8 <sup>TH</sup> FLOOR	12384	52507	393805	2486	10416	78122
<b>TOTAL</b>	<b>134625</b>	<b>551273</b>	<b>4134550</b>	<b>23777</b>	<b>96488</b>	<b>723660</b>

AUDIT	TOTAL WATTAGE (W)	POWER CONSUMPTION /ANNUM (KWH)	ELECTRICITY BILL /ANNUM (Rs)	CO2 Emission (metric tons)
PRE AUDIT	134625	551273	4134550	410
POST AUDIT	23777	96488	723660	71.8

power consumption reduction (%) = 82.5

# COMPARITIVE GRAPHS PRE AUDIT/POST AUDIT



**CO2 Emission %**  
**(metric tons)**

