7.1.4.1											
7.1.4.2 Annual lighting power required (in kwh)											
Total Tube Lights = 770 * 40 watts * 4 hours * 365 days = 44968000 wh = 44968 kwh											
Total CFL = 350 * 18 watts *4 hours * 365 days = 9198000 wh = 9198 kwh											
Total LED = 216		95 LED	* 40 watts	* 4 hours	* 365 days	5548000 wh	5548 kwh				
	ED =	31 LED	* 50 watts	* 4 hours	* 365 days	2263000 wh	2263 kwh				
		65 LED	* 30 watts	* 4 hours	* 365 days	2847000 wh	2847 kwh				
		25 LED	* 18 watts	* 4 hours	* 365 days	657000 wh	657 kwh				
					Total		11315 kwh				
Total Ar	nnual Li	ghting Power	= 44968 + 9198 +	- 11315 = 65481	kwh						
Total Annual lighting power requirement met through LED & CFL bulbs = 11315 + 9198 = 20513 kwh											
Annual lighting power requirement met through LED bulbs / Annual lighting power required *100											
11315/	/65481	1 * 100 = 1	7.28 %								

DEPARTMENT	No.of Tube Lights	No. of C.F.L	No. of LED
EEE	75	-	21
MECH	82	34	-
ECE	77	64	19
CIVIL	74	46	-
CSE	42	58	25
MBA	31	16	-
Bio Tech	68	-	-
Ist Year Block	46	32	74
Library	34	16	1
Ist Year Lab & Admin	28	22	-
L.H.	92	-	3
B.H.	94	-	3
Indoor	9	-	23
Auditorium	8	62	-
Street	2	-	22
Canteen	8	-	25
TOTAL Lamps	770	350	216

7.1.4 Energy Conservation

- ➢ Use of LED lamps for street lighting.
- > All buildings have been designed to maximize the natural lighting and minimize artificial lighting.
- > UPS system for computers have been installed in every department.
- > Replacement of halogen lamps in the roads of the campus with LED lamps powered by solar energy is being done in a phased manner.
- All the department laboratories, seminar halls and class rooms have been installed LED or CFL lighting system and also use the college Auditorium.
- > The 15 % to 35% of lighting power is conserved from usage of LED and CFL lighting.





LED light for EEE Department



LED light in EEE Department Laboratory





LED light for Street Light