



PRATHYUSHA ENGINEERING COLLEGE

CRITERIA-7

7.1 Institutional Values and Social Responsibilities

7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

DETAILS OF LED BULBS



7.1 Institutional Values and Social Responsibilities

7.1.2 Facilities for alternate sources of energy and energy conservation measures.

7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

USE OF LED BULBS/ POWER EFFICIENT EQUIPMENT

In PEC, all blocks had LED bulbs are used to save electricity, It helps to save more energy than the usage of Incandescent or CFL.

Total Lighting requirements : 77280

Percentage Lighting through LED bulbs : 10%

Percentage Lighting through other sources : 90%

Total Lighting requirements	Percentage Lighting through LED bulbs	Percentage Lighting through other sources
77280	10%	90%

Total lighting requirements for PEC campus : 77280 watt

No of LED bulbs available in campus : 7857 Nos

TOTAL LIGHTING REQUIREMENTS FOR PEC CAMPUS

S.No	Location	Sub location	Nos	WT	Total WT	
1	Boys Hostel		89	40	3560	
2		First Year	103	20	2060	
3		Second Year	76	40	3040	
4			84	20	1680	
5		Third Year	42	40	1680	
6			46	20	920	
7		Final Year	37	40	1480	
8			53	20	1060	
9	Girls Hostel	First Year	54	40	2160	
10			19	20	380	
11		Second Year	43	40	1720	
12			21	20	420	
13		Third & Final Year	40	40	1600	
14			16	20	320	
15	Mess	First Floor	76	40	3040	
16		Ground Floor	25	40	1000	
17	Main Building		311	40	12440	
18	ECE Block		136	40	5440	
19	Mech & Civil Block		138	40	5520	
20	Library & mega Lab		286	40	11440	
21	CSE Block		111	40	4440	
22	ECE Block		158	40	6320	
23	Street Light	Near Work shops	4	40	160	
24		Inside Campus	35	100	3500	
25		Out side Campus	10	100	1000	
26		Near Mechanical Block	1	100	100	
27		Nrae Back Gate	1	100	100	
28		Near Bus Shead	1	100	100	
29		Near STP Plant	1	100	100	
30		Girls Hostel Entrance	1	100	100	
31		Girls Hostel Entrance	2	100	200	
32		Temple	inside temple	4	10	40
33			Shead	4	40	160
Grand Total Watt					77280	

LOCATION OF LED BULBS IN CAMPUS

S.No	Location	Sub location	No.of LED	WATT	TOTAL USAGE THROUGH LED
1	Main Block	Class Rooms	19	18	342
2		Corridor	15	9	135
3		Restrooms	10	10	100
4	ECE	Class Rooms	2	18	36
5		Corridor	16	9	144
6		Restrooms	2	10	20
7	Mess	Dining Hall	29	18	522
8		Cooking Area	1	20	20
9	Boys Hostel	First Year	30	20	600
10		Second Year	60	18	1080
11		Third Year	30	18	540
12		Final Year	30	18	540
13		Corridor	80	10	800
14	Girls Hostel	Hostel rooms	40	18	720
15		Corridors & Restrooms	13	10	130
16	Street Light	Near Work shops	4	18	72
17		Inside Campus	35	36	1260
18		Out side Campus	10	50	500
19		Near Mechanical Block	1	36	36
20		Nrae Back Gate	1	20	20
21		Near Bus Shead	1	18	18
22		Near STP Plant	1	18	18
23		Girls Hostel Entrance	1	20	20
24		Girls Hostel Entrance	2	36	72
25	Temple	inside temple	4	10	40
26		Shead	4	18	72
					7857

