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7.1.4 : Lighting Power Requirements with LED

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7.1.4. Percentage of annual lighting power requirements met through LED bulbs

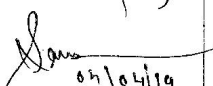
The total lighting requirement of the institute, in terms of light sources is around 1000 bulbs. The institute has taken initiative in replacing the existing more power consuming tube lights/bulbs in a phased manner. Till date total 223 LED bulbs are installed by replacing tube lights. The report of LED bulb installation by the Electrical Department is attached.

Energy consumption statistics with LED and Tubelight.

LED				
Sr. No	No. of Bulbs	Energy Consumed(KWH)	Wattage	
1	210	31.5	15	
2	3	0.54	18	
3	10	0.8	8	
	223	32.84		
		Daily lighting power requirements met through LED bulbs(KWH)=		32.84
		Annual lighting power requirements met through LED bulbs(KWH)=		9852
TUBELIGHT				
Sr.No	No. of tubes	Wattage	Energy Consumed(KWH)	
1	700	36	252	
		Daily Lighting power requirement(KWH)=		252
		Annual Lighting Power Requirement(KWH)=		75600
		Total Annual Lighting Power requirement including Tubelight and LED(KWH)=		85452
		Percentage of annual lighting power requirements met through LED bulbs=		11.52928

Document showing the number of LED lamps per floor

Report format

Floor No.	No. of LEDs	Location (lab, classroom, passage etc.)	Power of LED in W W
1	10	Lobby	Each 15W
	06	CRCE Intranse	Each 15W
	10	" "	Each 8W
	12	Principal Room	Each 15W
	30	CRCE office	Each 15W
	12	Tr. office	Each 15W
	08	Chemistry Lab	Each 15W
	30	Computer Centre Lab	Each 15W
2	03	Student Council Room	Each 18W
	12	VLSI Room no. 211	Each 15W
	12	Room no. 210	Each 15W
	09	Room no. 212	Each 15W
4	08	Library	Each 15W
	12	Room no 409	Each 15W
6	12	Room no. 609	Each 15W
	12	Room no. 611	Each 15W
7	12	Room no. 710	Each 15W
8	12	Room no. 801	Each 15W
	12	Room no. 809	Each 15W
	12	Room no. 808	Each 15W
	12	Room no. 810	Each 15W
9	13	Samvad	Each 15W
		Electrical Dept  04/04/19	