

# SAIRAM ENGINEERING COLLEGE

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

## ELECTRICAL ENERGY AUDIT

Block:A

Floor No :G

Sl. No	EQUIPMENT	LOCATION							QUANTITY	POWER CONSUMPTION PER LOTY (W)	TOTAL POWER CONSUMPTION (W)
		office	principal room	IT lab computer centre 3	Lab	staircase	corridor	GENTS TOILET			
1	Light	Incandescent Lamp							0	60	
		Fluoresent Light	35	6	24	23	1	3	92	40	3680
		CFL						2	2	20	
		LED	34	18	44	18		3	117	10	1170
2	Fan	Ceiling Fan	27		1	1			29	60	3300
		Pedestal Fan	2		3	1			6	60	
		Wall mounted Fan		1					1	60	
		Exhaust Fan							0	60	
3	Scket	5A	59	13	470	360	1	1	904	1000	16000
		10A			1	120			121	3000	96000
4	AC (Number and Capacity)	Split AC	3	5	7	7			22	1200	
		Window AC	7						7	1200	
5	UPS(kVA)	10kVA	1		4	4			9	900	
		0.5kVA							0	900	

Sl. No	EQUIPMENT	LOCATION	office	principal room	IT lab computer centre 3	Lab	staircase	corridor	GENTS TOILET	QUANTITY	POWER CONSUMPTION PER QTY (W)	TOTAL POWER CONSUMPTION (W)
6	Computer		17		125	120				262	250	
7	Printer		4	2	1					7	100	
8	Speaker			1	2	2	1	1		7	200	1400
9	Water Cooler									0	200	
10	3 Phase Load (HP)									0	745	
11	1 Phase Load (HP)									0	745	
12	Trip circuit		7			1	1	1		10	360	3600
13	Xerox Machine		3							3	700	
14	Television									0	200	
15	Lift									0	8000	8000
16	Other Equipments		13	1						14		
17	Show Light									0	15	
18	Amplifier									0	200	
19	ID Card Printer		2							2	150	
20	Heater									0	2000	
21	Focus Light(150W)									0	150	
22	LED Light (75W)									0	75	
	scanner				1					1	50	0
<b>Total load (kW)</b>												

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133.15

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## ELECTRICAL ENERGY AUDIT

Block :E

Floor No :1

Sl. No	EQUIPMENT	LOCATION	LOCATION											QUANTITY	POWER CONSUMPTION PER QTY (W)	TOTAL POWER CONSUMPTION (W)	
			A2504 library	A2503 Lib	corridor	CLASS ROOM	STAFF ROOM	CLASS ROOM	CLASS ROOM	CLASS ROOM	CLASS ROOM	CLASS ROOM	CORRIDOR				GENTS TOILET
															0	60	
2	Light	Fluorocent Light	23	2	2										27	40	1080
		CFL			1										67	20	
		LED	59	2	6										67	10	670
2	Fan	Ceiling Fan	35												63	60	3780
		Pedestal Fan	5												0	60	
		Wall mounted Fan	5												0	60	
		Exhaust Fan													0	60	
3	Scket	5A	30	48	2										1	1000	18000
		15A	1												18	3000	54000
4	AC (Number and Capacity)	Split AC	9	2											0	1200	
		Window AC													0	1200	
		0.5kVA													1	900	



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## ELECTRICAL ENERGY AUDIT

**Block :A**

**Floor No :2**

Sl. No	Equipment	Location	A3503	staffroom A3504	A3105,06,07,08,09	A3506	A3507	A3508	A3509	corridor	A3101,02,03,04,A3504	A3502	A3501	staircase and corridor 1,2	QUANTITY	POWER CONSUMPTION PER QTY (W)	TOTAL POWER CONSUMPTION (W)
1	Light	Incandescent Lamp													0	60	0
		Fluorescent Light	0	1	3	1	3	2	2	2	7	3	2		26	40	1040
		CFL													0	20	0
		LED	2	3	17	2	5			3	13	2	1		48	10	480
2	Fan	Ceiling Fan	2	3	30	5	10	3	3		15	3	3		77	60	4620
		Pedestal Fan					1	1	1			1			4		0
		Wall mounted Fan					1								1	60	60
		Exhaust Fan													0		0
3	Socket	5A	1	3	24	17	8	6	6		30	4	6		105	1000	105000
		10A	1							1					2	1200	2400
4	AC (Number and Capacity)	Split AC							1						1	1200	1200
		Window AC													0	3500	0

Sl. No	Equipment	Location	A3503	staffroom A3504	A3105,06,07,08,09	A3506	A3507	A3508	A3509	corridor	A3101,02,03,04,A3504	A3502	A3501	staircase and corridor 1,2	QUANTITY	POWER CONSUMPTION PER QTY (W)	TOTAL POWER CONSUMPTION (W)
5	UPS(kVA)														0	1000	0
6	Computer				1				1		5		1		8	250	2000
7	Printer								1						1	100	100
8	Scanner														0	200	0
9	Water Cooler														0	200	0
10	3 Phase Load (HP)														0		0
11	1 Phase Load (HP)														0		0
12	Fax														0		0
13	Xerox Machine														0		0
14	Television														0		0
15	speaker			1	5	1	1								8		0
16	Other Equipments														0		0
17	Fridge														0	200	0
18	Stabilizer														0	450	0
<b>Total load (kW)</b>																	<b>116.9</b>



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## ELECTRICAL ENERGY AUDIT

### A BLOCK-CONSOLIDATED REPORT

Sl. No	Equipment	Location	Ground Floor	I Floor	II Floor	Total watts
1	Light	Incandescent Lamp	0		0	0
		Fluorescent Light	3680	2440	1040	7160
		CFL	0	0	0	0
		LED	1170	670	480	2320
	Fan	Ceiling Fan	3300	3780	4620	11700
		Pedestal Fan	0	0	0	0
		Wall mounted Fan	0	0	60	60
		Exhaust Fan	0	0	0	0
3	Scket	5A	16000	18000	105000	139000
		15A	96000	54000	2400	152400
4	AC (Number and Capacity)	Split AC	0	0	1200	1200
		Window AC	0	0	0	0
5	UPS(kVA)		0	0	0	0
6	Computer		0	250	2000	2250
7	Printer		0	100	100	200
8	Scanner		1400	2000	0	3400
9	Water Cooler (500W)		0	0	0	0
10	3 Phase Load (HP)		0	0	0	0

Sl. No	Equipment	Location	Ground Floor	I Floor	II Floor	Total watts
11	1 Phase Load (HP)		0	0	0	0
12	Fax		3600	3600	0	7200
13	Xerox Machine		0	0	0	0
14	Television		0	0	0	0
15	Lift		8000	0	0	8000
16	Other Equipments		0			0
17	Show Light		0			0
18	Amplifier		0			0
19	ID Card Printer		0			0
20	Heater		0			0
21	Focus Light(150W)		0			0
22	LED Light (75W)		0			0
23	Fingering Machine		0			0
24	Switch Rack(router)			0		0
25	Roneo Machine			0		0
26	DOT MATRIX Printer			0		0
27	Water Cooler			0		0
28	Fridge				0	0
29	Stabilizer				0	0
30	Projector					0
31	Water Cooler					0
32	Speaker					
<b>Total load in kW</b>			<b>133.15</b>	<b>84.84</b>	<b>116.9</b>	332.97

**DEPARTMENT OF ELECTRICAL A**  
**ELECTRICAL I**  
**A BLOCK-CONSO**

<b>S.No</b>	<b>Floor</b>
<b>1</b>	Ground floor
<b>2</b>	I-floor
<b>3</b>	II-floor
<b>Total load in kW</b>	

**AND ELECTRONICS ENGINEERING**  
**ENERGY AUDIT**  
**LIDATED REPORT**

<b>Total loads in kW</b>
133.15
84.17
116.9
<b>332.97</b>