

SAIRAM ENGINEERING COLLEGE

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ELECTRICAL ENERGY AUDIT

Block :B

Floor No :G

Sl. No	Equipment	Location	Location											QUANTITY	POWER CONSUMPTION PER QTY (W)	TOTAL POWER CONSUMPTION (W)		
			B1501	B1502	B1503	B1505 Store room	B1506	B1507	B1508	B1511	HTC							
1	Light	Incandescent Lamp														0	60	0
		Fluorescent Light		1	0	2	1	1	5	9	9					28	40	1120
		CFL	12	6						4	4					26	20	520
		LED		3	2	6	1		13	11	15					51	10	510
2	Fan	Ceiling Fan			4											4	60	240
		Pedestal Fan	2		1				3							6	60	360
		Wall mounted Fan														0	60	0
		Exhaust Fan														0	60	0
3	Socket	5A	45	10	5				53		80					193	1000	193000
		15A		3							1					4	3000	12000
4	AC (Number and Capacity)	Split AC	3	3					2	3	5					16	1200	19200
		Window AC														0	1200	0
5	UPS(kVA)	5kVA														0	900	0
		0.5kVA														0	900	0

6	Computer															0	250	0
7	Printer															0	100	0
8	Scanner															0	200	0
9	Water Cooler															0	200	0
10	3 Phase Load (HP)															0	745	0
11	1 Phase Load (HP)															0	745	0
12	Fax															0	100	0
13	Xerox Machine															0	700	0
14	Television															0	200	0
15	Lift															0	8000	0
16	Other Equipments															0		0
17	Show Light															0	15	0
18	Amplifier															0	200	0
19	ID Card Printer															0	150	0
20	Heater															0	2000	0
21	Focus Light(150W)															0	150	0
22	LED Light (75W)															0	75	0
23	Fingering Machine															0	50	0
Total load (kW)																	226.95	

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ELECTRICAL ENERGY AUDIT

Block :B

Floor No :1

Sl. No	Equipment	Location	Location											QUANTITY	POWER CONSUMPTION PER QTY (W)	TOTAL POWER CONSUMPTION (W)		
			LADIES RESTROOM	CORRIDOR	B2102	B2101	B2503	B2502	B2501	LADIES RESTROOM	STAFFROOM	B2509	B2508				B2507	GENTS RESTROOM (B2506)
1	Light	Incandescent Lamp													0	60	0	
		Fluoresent Light	0	3	2		2	2	6	1	3		5	2	1	27	40	1080
		CFL										16				16	20	320
		LED	1	6	2		1	4	4		2		2	1		23	10	230
2	Fan	Ceiling Fan			6	6	3	8	7		2		7	10		49	60	2940
		Pedestal Fan			2							2				4		0
		Wall mounted Fan														0	60	0
		Exhaust Fan														0		0
3	Scoket	5A			5	1	3	51	104		3	141	16	73		397	1000	397000
		15A							7	26			18	8		59	1200	70800
4	AC (Number and Capacity)	Split AC						3				2		1		6	1200	7200
		Window AC														0	3500	0
		5kVA							1		1					2	900	1800

5	UPS(kVA)	10kVA								1					1	8000	8000	
		3kVA													0	3000	0	
6	Computer			1			8						46		14	69	250	17250
7	Printer				1								2			3	100	300
8	Scanner						1									1	200	200
9	Water Cooler															0	200	0
10	3 Phase Load (HP)															0	745	0
11	1 Phase Load (HP)															0	745	0
12	Fax															0	100	0
13	Xerox Machine															0	200	0
14	Television															0	200	0
15	Speaker			1	1		1	1					1		1	6	8000	48000
16	Other Equipments			1												1		0
17	Switch Rack(router)															0	200	0
18	Roneo Machine															0	200	0
19	DOT MATRIX Printer															0	200	0
20	Water Cooler															0	100	0
Total load (kW)																	555.12	

5	UPS(kVA)											1						1
6	Computer							35				3						38
7	Printer							1										1
8	Scanner							1										1
9	Water Cooler		1															1
10	3 Phase Load (HP)																	0
11	1 Phase Load (HP)																	0
12	Speaker			1	1	1	1		2	1		1	1	1				10
13	Xerox Machine																	0
14	Television																	0
15	Lift																	0
16	Other Equipments																	0
17	Fridge																	0
18	Stabilizer								4									4

Total load (kW)

POWER CONSUMPTION PER QTY (W)	TOTAL POWER CONSUMPTION (W)
60	60
40	880
20	240
10	270
60	2820
	0
60	0
	0
1000	433000
1200	50400
1200	7200
3500	0

1000	1000
250	9500
100	100
200	200
200	200
	0
	0
	0
	0
	0
	0
	0
	0
200	0
450	1800
	508.48

SAIRAM ENGINEERING COLLEGE

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ELECTRICAL ENERGY AUDIT

B - BLOCK-CONSOLIDATED REPORT

Sl. No	Equipment	Location	Ground Floor	I Floor	II Floor	Total watts
	Light	Incandescent Lamp	0	0	60	60
		Fluorescent Light	1120	1080	880	3080
		CFL	520	320	240	1080
		LED	510	230	240	980
2	Fan	Ceiling Fan	240	2940	2820	6000
		Pedestal Fan	360	0	0	360
		Wall mounted Fan	0	0	0	0
		Exhaust Fan	0	0	0	0
3	Socket	5A	193000	397000	433000	1023000
		15A	12000	70800	50400	133200
4	AC (Number and Capacity)	Split AC	19200	7200	7200	33600
		Window AC	0	0	0	0
	UPS(kVA)	5kVA	0	1800	1000	2800
5	10KVA UPS		0	8000	9500	17500
6	Computer		0	17250	100	17350
7	Printer		0	300	200	500
8	Scanner		0	200	200	400
9	Water Cooler (500W)		0	0	0	0

10	3 Phase Load (HP)	0	0	0	0
11	1 Phase Load (HP)	0	0	0	0
12	Fax	0	0	0	0
13	Xerox Machine	0	0	0	0
14	Television	0	0	0	0
15	Lift	0	0	0	0
16	Other Equipments	0	0	0	0
17	Show Light	0	0	0	0
18	Amplifier	0	0	0	0
19	ID Card Printer	0	0	0	0
20	Heater	0	0	0	0
21	Focus Light(150W)	0	0	0	0
22	LED Light (75W)	0	0	0	0
23	Fingering Machine	0	0	0	0
24	Switch Rack(router)	0	0	0	0
25	Roneo Machine	0	0	0	0
26	DOT MATRIX Printer	0	0	0	0
27	Water Cooler	0	0	0	0
28	Fridge	0	0	0	0
29	Stabilizer	0	0	1800	1800
30	Projector	0	0	0	0
31	Water Cooler	0	0	0	0
32	Speaker	0	48000	0	48000
Total load in kW		228.45	555.85	508.48	10496710

SAIRAM ENGINE

DEPARTMENT OF ELECTRICAL A
ELECTRICAL I
B BLOCK CO]

S.No	Floor
1	Ground floor
2	1-FLOOR
3	2-floor
Total load in kW	

For Each FLOOR

TOTAL POWER /HR=
TOTAL POWER/DAY=
TOTAL UNIT/DAY=

B-BLOCK
TOTAL ENERGY USED PER DAY

GROUND FLOOR UNIT/day

FIRST FLOOR UNIT/day =

SECOND FLOOR UNIT/day = 160.32units

TOTAL UNIT/day

**B-BLOCK
TOTAL ENERGY USED PER DAY**

GROUND FLOOR UNIT/day

FIRST FLOOR UNIT/day

SECOND FLOOR UNIT/day

TOTAL UNIT/day

ERING COLLEGE

AND ELECTRONICS ENGINEERING ENERGY AUDIT

NSOLIDATED

Total loads in kW
228.45
555.85
508.48
1292.8

REDUCIBLE POWER/hr =
REDUCIBLE POWER/day =
TOTAL UNIT/day =

298.56
160.32

848.24

389.36
298.56
160.32

848.24

