

**ENERGY AUDIT REPORT**  
**2024-25**

# DADI INSTITUTE OF ENGINEERING & TECHNOLOGY



An Autonomous Institute

Approved by A.I.C.T.E & Permanently affiliated to JNTU GV  
Accredited by NAAC with 'A' Grade and Inclusion u/s 2(f) & 12(B) of UGC Act  
An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Institute.  
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## ENERGY AUDIT REPORT

### 2024-25

Energy AuditAssessmentTeam

1	Dr.R.VaikuntaraoPrincipal, DIET	Audit Chairman
2	DrA S L K Gopamma HOD-EEE,DIET	Member
3	Mr. K.Srinivasa Rao Assoc. Professor DIET	Energy Coordinator
4	Mr.V Sudhakar Asst.Professor DIET	Member
5	Mr.P Sravanilakshmi Asst.Professor DIET	Member

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### **1. INTRODUCTION:**

An energy audit is an analysis of energy flows for energy conservation and to find energy losses. It is a process by a collection of detailed data related to energy usage and comparison of collected results.

An energy audit is a process by which we can reduce the amount of energy input to the system without a negative impact on the output. It must be the first step in commercial and industrial real estate to identify an opportunity to reduce the billing cost and waste of energy.

It measures various data like total connected load, power factor, load factor, and maximum demand. All the calculations result in the investment required in terms of the payback period.

## **2. OBJECTIVES:**

The objective of an energy audit is to save energy by maintaining and improve human comfort and health. Energy audit creates opportunities to reduce the cost of energy by simply identifying the alternative source of energy or equipment. And make a priority of energy uses according to high to a low amount of cost-effective opportunities.

Save energy by developing modification and use of modern equipment, is the aim of an energy audit. The impact of energy audit may be a long-term impact on cost.

Conducting a routine energy audit ensures you're reducing your carbon footprint and continuing to be energy efficient by continuously employing new energy conservation improvements. Here's a quick

List of why an energy audit is important:

- An energy audit will identify energy-saving opportunities.
- It will help you understand your energy usage and ways to use energy better.
- An energy audit can identify safety concerns with electrical systems, wiring, and ventilation, thus making your home or business safer.
- It will increase a home's resale value.
- An energy audit will help you identify how to reduce carbon monoxide production in the home or business.

## **3. Benefits of Energy Audit Assessment:**

As we have discussed, an energy audit is a process to find data and readings to identify energy-saving opportunities with excess use of energy compared with set up standards. It is a master tool of energy management to use energy efficiently. It is a method to find out the way by which we can reduce our power consumption. An energy audit is a study of building, plant, or industry, to determine where the energy is wasting and where we can save energy. Energy conservation is the main aim of an energy audit. And this is a need of any company to reduce the running cost. The need for an energy audit is to reduce the usage of energy and cut costs. Mainly it focuses on reducing the cost of electrical energy. And find different ways to cut the cost of electricity bills.

Energy conservation with no hazard effects on the environment and not effect on the output. Hence, the energy audit saves energy without disturbing nature and human beings.

#### **4. Steps of Energy Audit**

The energy audit includes the following steps to analysis of plant;

- ✓ Collect past data of energy usage.
- ✓ Study of plant, industries, or building and their operational characteristic.
- ✓ Identification of opportunities to reduce energy uses and cost.
- ✓ To perform analysis of potential modification.
- ✓ Prepare a priority-wise list of modifications.
- ✓ Prepare an audit report to document the analysis process and results.

#### **5. Cost-effective Energy Conservation Ideas**

Energy can be saved by using advanced technology equipment with some human efforts. The list of some ideas to save energy is listed below;

- Use of LED lights instead of fluorescent lamps. It will reduce 70% of energy consumption from lighting.
- Install lighting sensors or smart lights, which can automatically turn ON and OFF.
- Use energy efficient equipment like Electric Motor, etc.
- Install photo sensors in public lighting like street lights.
- Use natural light, if possible. Keep in mind while planning new construction to place a window at a place. Hence you can use the sunlight during day time. And turn off lights if is not required.
- Turn OFF all equipment while leaving the area or hall. Make a banner to switch off lights while you leaving.
- Use energy-efficient fans (BLDC Fans) to reduce the energy. The consumption of BLDC fan is 28-35W while ordinary fan consumes 70-80W.
- Install a master switch outside of the room. Therefore, you can turn off all equipment in case you forgot to turn it off from inside.
- Use inverter AC to reduce energy consumption.
- Proper installation of window, curtain, glass film will reduce the use of lights and fans.

## 6. Energy Audit Checklist

Professional energy auditors and those who choose to audit their own homes will use an energy audit checklist. This checklist is a printed report detailing the various aspects of a home or business that need to be audited.

On your energy audit checklist, you will likely find the following categories:

- Lighting
- Electric motors
- Air leakage
- Insulation

## 7. ABOUT DIET:

Dadi Institute of Engineering and Technology is approved by A.I.C.T.E, accredited by NAAC A grade and permanently affiliated to JNTGV. DIET received UGC 2(f) & 12 (b) inclusions. It is a premier educational institute founded by well-known Academician and Philanthropist Sri Dadi Veerabhadra Rao with an objective of providing qualitative education to the people of Visakhapatnam and its suburbs in the year 2006. Since inception the institution is strictly following the founder's perspective and it rose to one of the top preferred institutes in the north coastal districts of Andhra Pradesh for quality education. The highlighting feature of the institute is that, it is the only institute in the state to have highest number of professional bodies of National and International chapters, functioning effectively and helping student fraternity in their holistic development.

National Bodies like NRDC have inked MOA with DIET for Providing IP & Technology Commercialization Services- An agreement in the form of MOA was signed between National Research Development Corporation (NRDC), an Enterprise of Department of Scientific & Industrial Research, Ministry of Science & Technology, Govt. of India and Dadi Institute of Engineering and Technology.

The institute has produced about two thousand and five hundred engineers during last 14 years. Many of DIET alumni are placed across the globe in reputed multinational companies and are doing a considerable service and playing their part in 'Nation Building'. The institute has provided individual cubicles to the staff in the staff rooms, waiting halls for girls, and spacious

sheds for vehicle parking, mineral water plant for drinking water, a well-furnished canteen, and on campus health center with all emergency health equipment. It has its own fleet of buses to help students and faculty to commute from various parts of the city of Visakhapatnam and its suburbs. The management aims at academic excellence and has left no leaf un-turned to achieve it. DIET has always adopted itself to the changing needs of the technological world and improved its infra-structural facilities to provide the student community the best facilities to excel in the engineering and management programs.

Quality improvement has been the hall mark of the success saga of the institution and is certified by ISO 9001:2008, ISO 14001:2004 & OHSAS 18001:2007 certifications.

**Institute is offering the following courses:**

B.Tech(CSE,CSE(AI&ML,DS),ECE,EEE,CIVIL)

M. Tech(Power&IndustrialDrives,Systems&SignalProcessing,ComputerScience&Engineering)

MBA

Polytechnic(EEE,ECE,CIVIL)

**DIET having Facilities:**

Library and Digital Library Entrepreneur Development Cell

Diet Literary & Cultural Club NSS

Students Activity Canter Laboratories

Model Class Room

Classrooms and Tutorial Rooms Faculty Cabins

Students Service Centre Medical Centre

Faculty Dinning Hall Cafeteria Conference Hall Girls Waiting Hall Transport Facility

## 8. Energy Efficiency

### A. Solar energy system

The College having 2kwp solar energy system is using in main gate. The college also created the awareness among the students on the Energy efficiency. The college is maintained the LED lighting in campus.



### B. DG Set

The college having the Capacity of DGSet125KVA. Every Organization will be equipped with a backup power or power generating devices in the absence of normal power supply.



## 9. Energy Data

### CALCULATING POWER CONSUMPTION OF ALL THE ELECTRICAL APPLIANCES AT GROUND FLOOR IN OUR COLLEGE

#### Students Details:

Batch/Year/Class/Sem:EEE,4th year& 3rd year .

#### Student name:

K.Prabhas Venkata sai

K. Surya Prakasarao

K.Vamsi rama krishna raju

S.Chandra sekhar

#### Roll number:

22U41A0209

23U45A0213

24U45A0221

24U45A0230

#### Number Of Electrical Appliances:

#### **Total Appliances:5**

1. Ceiling Fan
2. LED bulbs
3. Fluorescent lights
4. Personal computers
5. Projectors

#### Load Calculation:

S.No	Floor	Room Number	Equipment	Quantity	Wattage(W)	Total Watt	KW	Total Units For 8Hrs a day
1	Ground floor	Machine lab	Fans	11	80	880	0.88	7.04
			Tube lights	7	60	420	0.42	3.36
2	Ground floor	Musicclub	Tubelights	4	60	240	0.24	1.92
			Fans	4	80	320	0.32	2.56

3	Ground floor	Polytechnic office	Tube lights	2	60	120	0.12	0.96
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			Fans	3	80	240	0.24	1.92
			LED bulbs	0	0	0	0	0
4	Ground floor	Development cell	Tube lights	2	60	120	0.12	0.96
			Fans	3	80	240	0.24	1.92
5	Ground floor	Lecturehall-1	Tube lights	4	60	240	0.24	1.92

**Total Units Consumed: 87.36**

**CALCULATING POWER CONSUMPTION OF ALL THE ELECTRICAL APPLIANCES AT FIRST FLOOR IN OUR COLLEGE**

**Students Details:**

Batch/Year/Class/Sem:EEE,4th year & 3rd year .

**Student name:**

B. Om saivasanthi  
K. Akhila  
L.Sai varsha  
G.Chandrakala

**Roll number:**

22U41A0203  
23U45A0211  
24U45A0228  
24U45A0216

**Number Of Electrical Appliances:**

**Total Appliances: 5**

1. Ceiling Fan
2. LED bulbs
3. Tube lights
4. Personal computers

## 5. Projectors

### Load Calculation:

	Floor	Room	Equipment	Quantity	Wattage	Total power in wattage	kw/1000	1kwh=1unit
1.	1	Faculty department	Fans Tubelights Lamp holders	6 2 2	80 60 -	480 120 -	0.48 0.12 -	3.84 0.96
2.	1	LIBRARY	FANS	14	80	1120	1.12	8.96
			TUBE	14	60	840	0.84	6.72
			LIGHTS	-	-	-	-	-
			LAMP	3	9	27	0.027	0.216
			HOLDER					
			LED BULBS					
3.	1	FACULTY	FANS	2	80	160	0.16	1.28
			TUBELIGHTS	1	60	60	0.06	0.48
4.	1	LH9	FANS	6	80	480	0.48	3.84
			TUBELIGHTS	2	60	120	0.12	0.96
5.	1	DEPT	FANS	11	80	880	0.88	7.04
			TUBELIGHTS	7	60	420	0.42	3.36
6.	1	DEPT	FANS	1	80	80	0.08	0.64
			TUBELIGHTS	1	60	60	0.06	0.48
7.	1	LH5	FANS	6	80	480	0.48	3.84
			TUBELIGHTS	2	60	120	0.12	0.96
			HTSLEDBULBS	1	9	9	0.009	0.072

**Total Units Consumed: 43.68211**

**CALCULATING POWER CONSUMPTION OF ALL THE ELECTRICAL APPLIANCES AT SECOND FLOOR IN OUR COLLEGE**

**Students Details:**

Batch/Year/Class/Sem:EEE, 4th year & 3rd year .

**Student name:**

**Roll number:**

P.Hemalatha	22U41A0216
G.Pavani	22U41A0208
A.Lokesh	24U45A0201
B.Teja	24U45A0207

**Number Of Electrical Appliances:**

**Total Appliances: 5**

1. Ceiling Fan
2. LED bulbs
3. Tubelights
4. Personal computers
5. Projectors

**Load Calculation:**

SNO	FLOOR	ROOM NUMBER	EQUIPMENT	QUANTITY	WATTAGE (W)	TOTAL WATT	KW	KW UNIT 8 HOURS
1	2nd	Lh14	Fans	6	80	480	0.48	3.84
			Tube lights	2	60	120	0.12	0.94
			Projector	1	200	200	0.2	1.6
2	2nd	Lh15	Tube lights	2	60	120	0.12	0.96
			Fans	6	80	480	0.48	3.84
			LED bulbs	1	9	9	0.009	0.07
3	2nd	Lh16	Tube lights	3	60	180	0.18	1.44
			Fans	6	80	480	0.48	3.84

			LED bulbs	2	9	18	0.018	0.14
			Projector	1	200	200	0.2	1.6
4	2nd	Lh17	Tube lights	2	60	120	0.12	0.96
			Fans	6	80	480	0.48	3.04
			LED bulbs	2	9	18	0.018	0.14
			Projector	1	200	200	0.2	1.6
5	2nd	Lh 18	Tube lights	2	60	120	0.12	0.96
			Fans	6	80	480	0.48	3.84
			LED bulbs	2	9	18	0.018	0.14
			Projector	1	200	200	0.2	1.6
6	2nd	Lh 19	Tube lights	2	60	120	0.12	0.96
			Fans	5	80	400	0.4	3.2
7	2nd	Lh 20	Tube lights	2	60	120	0.12	0.96
			Fans	4	80	320	0.32	2.56
8	2nd	Lh 21	Tube lights	2	60	120	0.12	0.96
			Fans	6	80	480	0.48	3.84
			LED bulbs	1	9	9	0.009	0.07
9	2nd	Lh 22	Tube lights	2	60	120	0.12	0.96
			Fans	6	80	480	0.48	3.84
			LED bulbs	1	9	9	0.009	0.07
10	2nd	Computer lab-3	Tube lights	1	60	420	0.42	3.36
			Fans	8	80	640	0.64	5.12
			LED bulbs	1	9	9	0.009	0.07
			Projector	1	200	200	0.2	1.6
			Personal computer	61	200	12200	12.2	97.6
11	2nd	Computer lab-4	Tube lights	6	60	360	0.36	2.88
			Fans	4	80	320	0.32	2.56
			Projector	1	200	200	0.2	1.6
			Personal computer	37	200	7400	7.4	59.2
12	2nd	Computer lab-5	Tube lights	8	60	480	0.48	3.84
			Fans	13	80	1040	1.04	8.32
			Projector	1	200	200	0.2	1.6
			Personal computer	60	200	12000	12	96
13	2nd	Computer lab-6	Tube lights	4	60	240	0.24	0.16
			Fans	6	80	480	0.48	3.84
			Projector	1	200	200	0.2	1.6
			PC	36	200	7200	7.2	57.6

14	2nd	HOD of CSE	Tube lights	1	60	60	0.06	0.48
			Fans	2	80	160	0.16	1.28
			PC	1	200	200	0.2	1.6
15	2nd	Dept. library of CSE	Tube lights	2	60	120	0.12	0.96
			Fans	2	80	160	0.16	1.28
			PC	1	200	200	0.2	1.6
16	2nd	Faculty dept.	Tube lights	5	60	400	0.4	3.2
			Fans	7	80	560	0.56	4.48
17	2nd	E-resource centre	Tube lights	7	60	420	0.42	3.36
			Fans	12	80	960	0.96	7.68
			PC	16	200	3200	3.2	25.6
18	2nd	Corridor	LED bulbs	32	60	1920	1.92	15.3

**Total Units Consumed: 460.72**

**CALCULATING POWER CONSUMPTION OF ALL THE ELECTRICAL APPLIANCES AT THIRD FLOOR IN OUR COLLEGE**

**Students Details:**

Batch/Year/Class/Sem:EEE, 4<sup>th</sup> year & 3<sup>rd</sup> year.

**Student name:**

**Roll number:**

Y.Niharika	22U41A0225
A.Sushma	23U45A0201
P.lalitha	24U45A0235
V.Mounika	24U45A0240

**Number Of Electrical Appliances:**

**Total Appliances: 5**

1. Ceiling Fan
2. LED bulbs
3. Tube lights
4. Personal computers

## 5. Projectors

### Load Calculation:

SNO	FLOOR	ROOM NUMBER	EQUIPMENT	QUANTITY	WATTAGE(W)	TOTAL WATT	KW	KW UNITHOURS
1	3rd	Lh24	Fans	8	80	840	0.64	5.12
			Tube lights	4	60	240	0.24	0.192
			LED	2	9	18	0.018	0.144
2	3rd	Lh25	Tube lights	2	60	120	0.12	0.96
			Fans	6	80	480	0.48	3.84
			LED bulbs	2	9	18	0.018	0.144
3	3rd	Lh26	Tube lights	2	60	120	0.12	0.96
			Fans	6	80	480	0.48	3.84
			LED bulbs	2	9	18	0.018	0.14
4	3rd	Lh27	Tube lights	2	60	120	0.12	0.96
			Fans	6	80	480	0.48	3.04
			LED bulbs	2	9	18	0.018	0.14
			Projector	1	200	200	0.2	1.6
5	3rd	Lh 28	Tube lights	2	60	120	0.12	0.96
			Fans	6	80	480	0.48	3.84
			LED bulbs	2	9	18	0.018	0.14
6	3rd	Lh 29	Tube lights	2	60	120	0.12	0.96
			Fans	6	80	480	0.48	3.84
			LED	2	9	18	0.018	0.144
			projector	1	200	200	0.2	1.6
7	3rd	Lh 30	Tube lights	2	60	120	0.12	0.96
			Fans	6	80	480	0.48	3.84
			LED	2	90	18	0.018	0.144
8	3rd	Lh 31	Tube lights	2	60	120	0.12	0.96
			Fans	6	80	480	0.48	3.84
			LED bulbs	2	9	18	0.018	0.144
9	3rd	Lab 7	Tube lights	4	60	240	0.24	1.92
			Fans	9	80	720	0.72	5.76
			LED bulbs	4	9	36	0.036	0.288
			projector	1	200	200	0.2	1.6
			system	72	200	14.4	14.4	115.2

10	3rd	Computer lab-8	Tube lights	5	60	300	0.3	2.4
			Fans	4	80	320	0.32	2.56
			LED bulbs	4	9	36	0.036	0.288
			Projector	1	200	200	0.2	1.6
			Personal computer	36	200	7200	7.2	57.6
11	3rd	ECE(HOD)	Tube lights	1	60	60	0.32	0.48
			Fans	1	80	80	0.08	0.64
			system	1	200	200	0.2	1.6
12	3rd	ECE(DEP)	Tube lights	6	60	360	0.36	2.88
			Fans	11	80	880	0.88	7.04
13	3rd	AC &DC Lab	Tube lights	4	60	240	0.24	0.16
			Fans	6	80	480	0.48	3.84
			Projector	1	200	200	0.2	1.6
14	3rd	IC&DDC Lab	Tube lights	2	60	120	0.12	0.96
			fans	7	80	560	0.56	4.48
			Projector	1	200	200	0.2	1.6
15	3rd	EDC Lab	Tube lights	2	60	120	0.12	0.96
			Fans	6	80	480	0.48	3.84
			LED	4	9	36	0.036	0.288
			Projector	1	200	200	0.2	1.6
16	3rd	DEP .Library	Fans	2	80	160	.16	1.28
			Lights	4	60	240	0.24	1.92
17	3rd	Corridor	LED	32	200	6400	6.4	51.4

**Total Units Consumed: 460.72**

**CALCULATING POWER CONSUMPTION OF ALL THE ELECTRICAL APPLIANCES AT FOURTH FLOOR IN OUR COLLEGE**

**Students Details:**

Batch/Year/Class/Sem:EEE,4th year& 3rd year .

**Student name:**

**Roll number:**

A.Yoshitha	23U45A0203
A.Pushpa raj	23U45A0202
P.Dharma teja	24U45A0234
Y.Teja swaroop	24U45A0243

**Number Of Electrical Appliances:**

**Total Appliances:5**

1. Ceiling Fan
2. LED bulbs
3. Tube lights
4. Personal computers
5. Projectors

**Load Calculation:**

	Floor	Room Number	Equipment	Quantity	Wattage	Total Power in wattage	kw/1000	1kwh=1unit
1	4	32	Fans	8		640	0.64	5.12
			Tube lights	4	80	240	0.24	1.93
			projector	1	60	200	0.2	1.6
					200			

2.	4	36	FANSTUBELIGHTS	4 2	80 60	320 120	0.32 0.12	2.56 0.96
3.	4	MBA	FANSTUBELIGHTSCCAMERA	3 1 1	80 60 09	240 60 09	0.24 0.06 0.009	1.92 0.48 0.072
4.	4	40	FANSTUBELIGHTS	6 5	80 60	480 300	0.48 0.3	3.84 2.4
5.	4	35	FANSTUBELIGHTS	4 2	80 60	320 120	0.32 0.12	2.56 0.96
6.	4	34	FANSTUBELIGHTS	6 2	80 60	480 120	0.48 0.12	3.84 0.96
7.	4	33	FANSTUBELIGHTS	6 2	80 60	480 120	0.48 0.12	3.84 0.96
8.	4	32	FANSTUBELIGHTSPROJECTOR	6 2 1	80 60 9	480 120 09	0.48 0.12 0.009	3.84 0.96 0.072
9.	4	FACULTY	TUBELIGHTS FANS	7 15	60 80	420 1200	0.42 1.2	3.36 9.6

10.	4	HOD	PERSONAL COMPUTER	1	200	200	0.2	1.6
11.	4	PLACEMENTCELL	FANSTUBELI GHTSMODE M	2 2 2	80 60 10	160 120 20	0.16 0.12 0.02	1.28 0.96 0.16
12.	4	HOD:MBA	FANSTUBELI GHTSPERSO NALCOMPU TER	3 2 1	80 60 200	240 120 200	0.24 0.12 0.2	1.92 0.96 1.6
13.	4	SEMINARHALL	FANSTUBELI GHTSPROJE CTOR	15 8 1	80 60 200	1200 480 200	1.2 0.48 0.2	9.6 3.84 1.6
14.	4	37	FANSTUBELI GHTS	6 4	80 60	480 240	0.48 0.24	3.84 1.92
15.	4	38	FANSTUBELI GHTS	6 4	80 60	480 240	0.48 0.24	3.84 1.92
16.	4	COMMUNICATION LAB	PERSONALC OMPUTERFA NSTUBELIG HTS	115 14 11	200 80 60	23000 1120 660	23 1.12 0.66	184 8.96 5.28

17	4		FANS	12	80	960	0.96	7.68
			TUBELIGHTS	8	60	480	0.48	3.84
		IOT LAB	PERSONAL COMPUTER	36	200	7200	7.2	57.6

**Total Units Consumed: 360.00**

**CALCULATING POWER CONSUMPTION OF ALL THE ELECTRICAL APPLIANCES AT FIFTH FLOOR IN OUR COLLEGE**

**Students Details:**

Batch/Year/Class/Sem: EEE 4th year & 3rd year .

**Student name:**

**Roll number:**

P.Janardhan.

23U45A0219

R.Samuel raj 23U45A0228

D Chaitanya lakshmi 23U41A0203

G Greeshma 23U41A0204

**Number Of Electrical Appliances:**

**Total Appliances: 5**

1. Ceiling Fan
2. LED bulbs
3. Tube lights
4. Personal computers
5. Projectors

**Load Calculation:**

<b>SI NO</b>	<b>Floor</b>	<b>Room</b>	<b>Equipm ent</b>	<b>Watta ge</b>	<b>Total power In wattage</b>	<b>kw/1000</b>	<b>1kwh =1uni t</b>
<b>1</b>	<b>5</b>	<b>Drawing hall</b>	*fan - 4	80	320	0.32	2.56
			* Tube light- 8	60	480	0.48	3.84
			*Led bulb -0	-			
<b>2</b>	<b>5</b>	<b>Physics lab</b>	*fan-12	80	960	0.96	7.68
			*Tube light- 8	60	480	0.48	3.84
			Ledb ulb-0				
<b>3</b>	<b>5</b>	<b>Chemistry lab</b>	Fan-5	80	400	0.4	3.2
			Tube light -10	60	600	0.6	4.8
			LedB ulb-0				
		<b>Electrical</b>	Fan-7	80	560	0.56	4.48
<b>4</b>	<b>5</b>	<b>Circuits&amp; Simulation lab</b>	Tubelight- 6	60	360	0.36	2.88
			Led bulb -0				

5	5	<b>LH-42</b>	Fan-6	80	480	0.48	3.84
			Tubelight-4	60	240	0.24	1.92
			Ledbulb-0				
6	5	<b>LH-41</b>	Fan-6	80	480	0.48	3.84
			Tube				
			light-3	60	180	0.18	1.44
			Led bulb	-	-	-	-
			-0				
7	5	<b>Power electronics</b>	Fan-7	80	560	0.56	4.48
			Tubelight-6	60	360	0.36	2.88
			Led bulb				
			-0				
			Fan-0				
8	5	<b>Corridor</b>	Tubelight-1	60	441		3.528
			Led bulb			0.441	
			-49	9	60		0.48
						0.6	

**Total Units Consumed: 68.64**

## 10. PHOTOGALLERY





