

ENERGY AUDIT REPORT
of
MIT ART, DESIGN AND TECHNOLOGY UNIVERSITY
Loni Kalbhor, Pune 412201



MIT-ADT
UNIVERSITY
PUNE, INDIA
A leap towards World Class Education.


Year: 2020-21

Prepared by

Enrich Consultants

Yashashree, 26, Nirmal Bag Society
Near Muktangan English School, Parvati, Pune 411009
Phone: 09890444795, Email: enrichcons@gmail.com

MAHARASHTRA ENERGY DEVELOPMENT AGENCY
An ISO 9001 : 2000 Reg. no. : RQ.91 / 2462

**Maharashtra Energy Development Agency**
(Government of Maharashtra Institution)
Aundh Road, Opposite Spicer College Road, Near Commissionerate of Animal Husbandary,
Aundh, Pune, Maharashtra 411067
Ph No: 020-35000450
Email: eee@mahaurja.com, Web: www.mahaurja.com

ECN/2021-22/CR-14/1577 22nd April, 2021

**CERTIFICATE OF REGISTRATION
FOR CLASS 'A'**


We hereby certify that, the firm having following particulars is registered with **MAHARASHTRA ENERGY DEVELOPMENT AGENCY (MEDA)** under given category as "Energy Planner & Energy Auditor" in Maharashtra for Energy Conservation Programme of MEDA.

Name and Address of the firm : **M/s Enrich Consultants**
Yashashree, Plot No. 26, Nirmal Bag Society,
Near Muktangan English School, Parvati,
Pune - 411009.

Registration Category : *Empanelled Consultant for Energy Conservation Programme for Class 'A'*

Registration Number : **MEDA/ECN/2021-22/Class A/EA-03**

- Energy Conservation Programme intends to identify areas where wasteful use of energy occurs and to evaluate the scope for Energy Conservation and take concrete steps to achieve the evaluated energy savings.
- MEDA reserves the right to visit at any time without giving prior information to verify quarterly activities performed by the firm and canceling the registration, if the information is found incorrect.
- This empanelment is valid till **21st April, 2023** from the date of registration, to carry out energy audits under the Energy Conservation Programme
- The Director General, MEDA reserves the right to cancel the registration at any time without assigning any reasons thereof.


General Manager (EC)

Enrich Consultants

Yashashree, 26, Nirmal Bag Society,
Near Mukangan English School, Parvati, Pune 411 009
Tel: 09890444795 Email: enrichcons@gmail.com

Ref: EC/MITADT/20-21/01

Date: 28/10/2021

CERTIFICATE

This is to certify that we have conducted Energy Audit at MIT Art, Design and Technology University, Loni Kalbhor, Pune 412 201, in the year 2020-21.

The University has adopted following Energy Efficient Practices:

- Usage of Energy Efficient LED Fittings.
- Installation of **732.2 kWp** Roof Top Solar PV Plant.
- Installation of **77500 LPD** Solar Thermal Water Heating System at Hostel blocks.
- Usage of BEE STAR Rated Equipment
- Maximum Usage of Day Lighting

We appreciate the support of Management, involvement of faculty members and students in the process of Energy Conservation & making the campus Energy Efficient.

For Enrich Consultants,

A Y Mehendale,
Certified Energy Auditor
EA-8192

INDEX

No	Particulars	Page No
I	Acknowledgement	5
II	Executive Summary	6
III	Abbreviations	8
1	Introduction	9
2	Study of Connected Load	12
3	Study of Present Energy Consumption	15
4	Study of Carbon Foot printing	17
5	Study of Usage of Alternate Energy	19
6	Study of Usage of LED Lights	22
7	Recommendation	23
	Annexure	
I	Building wise Connected Load	25

ACKNOWLEDGEMENT

We Enrich Consultants, Pune, express our sincere gratitude to the management of MIT Art, Design and Technology University, Loni Kalbhor, Pune, for awarding us the assignment of Energy Audit of their Loni Kalbhor Campus for the Year: 2020-21.

We are thankful to:

- Prof. Dr. Mangesh T. Karad, Executive Director & Vice Chancellor
- Prof. Dr. Anant Chakradeo, Pro Vice Chancellor
- Dr. Mangesh Chopade, Registrar

We are also thankful to the Director, Internal Quality Assurance Cell, Head of the Departments & other staff members for helping us during the field study.

EXECUTIVE SUMMARY

After the Field Study & Analysis, we present herewith important observations made during the assignment of Energy Audit.

1. MIT Art, Design and Technology University, Loni Kalbhor, Pune consumes Energy in the form of **Electrical Energy** used for various Gadgets, Office Equipment, Laboratories, Vehicles & other facilities.

2. Present Energy Consumption:

No	Parameter/ Value	Energy Purchased, kWh	CO ₂ Emissions, MT
1	Total	1877535	1689.78
2	Maximum	262419	236.18
3	Minimum	119276	107.35
4	Average	156461.25	140.82

3. Various measures adopted for Energy Conservation:

- Usage of LED Lights
- Installation of **732.2 kWp** Roof Top Solar PV Plant.
- Installation of **77500 LPD** Solar Thermal Water Heating System.

4. Usage of Alternate/Renewable Energy:

- The University has installed **732.2 kWp** Roof Top Solar PV Plant
- Energy Purchased from MSEDCL is **1877535 kWh**
- Energy generated by Solar PV Plant is **878640 kWh**
- Total Annual Electrical Energy Demand is **2756175 kWh**.
- The percentage of Alternate Energy to Annual Energy requirement is **31.88 %**.

5. Percentage of Lighting Power Requirement met by LED Lighting:

- The Total Lighting Load is **157.60 kW**.
- The LED Lighting Load is **152.20 kW**.
- The% of LED to the total annual lighting power requirement works out to be **97 %**

6. Notes & Assumptions:

- 1 **kWh** of Electrical Energy releases **0.9 Kg of CO₂** into atmosphere.
- 1 **kWp** Roof Top Solar PV Plant generates **4 kWh** of Electrical Energy /Day
- Annual Energy Generation Days: For Solar PV Plant:**300 Nos**

7. Recommendations:

1. During the Audit, it was observed that, at various locations like, Offices, Faculty cabins, Class rooms, Labs, even though the occupants were not present, still the Lights and Fans were ON. It is recommended to **Switch OF** the Electrical gadgets when not in use.
2. Install Sub meters at Main Distribution Panels of all University Buildings.
3. Keep Daily Data of Solar Energy generated.

8. References:

1. For Computation of CO₂ Emissions: www.tatapower.com
2. For Energy Generated by Solar PV Plant: www.solarrooftop.gov.in

ABBREVIATIONS

AC	: Air conditioner
ADT	: Art, Design and Technology
MANET	: Maharashtra Academy of Naval Education & Training
DL	: Down Lighter
FTL	: Fluorescent Tube Light
LED	: Light Emitting Diode
kWh	: kilo-Watt Hour
kWp	: Kilo Watt Peak
Qty	: Quantity
W	: Watt
kW	: Kilo Watt
PC	: Personal Computer
MT	: Metric Ton
LPD	: Liters Per Day
LPG	: Liquefied Petroleum Gas

CHAPTER-I INTRODUCTION

1.1 Objectives:

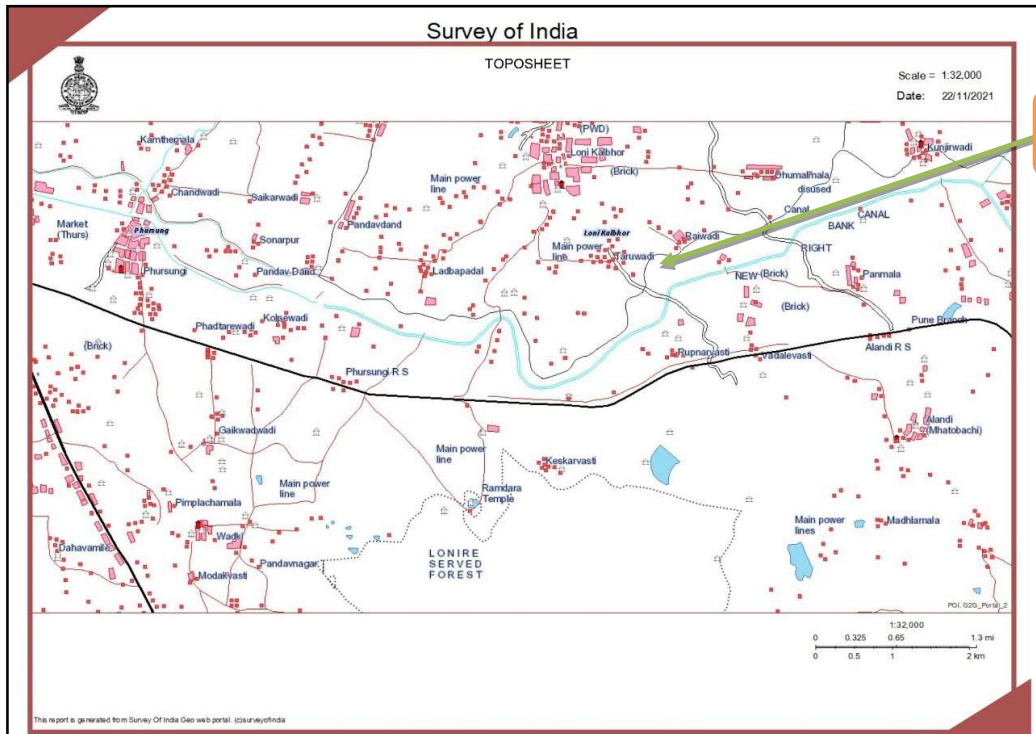
1. To study the Connected Load
2. To Study Present level of Energy Consumption
3. To compute the present CO₂ emissions
4. To study Usage of Renewable Energy
5. To study usage of LED Lighting

1.2 General Details of University:

Table No 1: General Details of University

No	Head	Particulars
1	Name of Institution	MIT Art Design and Technology University
2	Address	Loni Kalbhor, Pune 412 201
3	Latitude / Longitude	18.49 ⁰ / 74.02 ⁰

1.3 Topo Sheet:



University Location

1.4 Goggle Earth Image of University:



1.5 List of Buildings:

1. MANET Building
2. MANET- Workshop-1
3. MANET- Workshop-2
4. MANET- Workshop-3
5. MANET- Workshop-4 (T S Vishwanath)
6. MANET Section- Bio Engineering Building
7. MANET Hostel Blocks: A, B, C, D, E, F
8. Design, Architecture & Fine Arts
9. Design College
10. Design Hostel: Boys & Girls
11. School of Film & Television
12. Makers Space
13. Sangeet
14. Vedic Science

15. VC Bungalow, Admission Cell
16. Laundry
17. Raj Kapoor Bungalow
18. Raj Memorial
19. Raj Restaurant& Boat Club Hostel
20. Sports Complex
21. Engineering & I T
22. Workshop- Engineering

CHAPTER-II

STUDY OF CONNECTED LOAD

In this chapter, we present the details of various Electrical loads as under

Table No 2: Details of Building Wise Electrical Equipment:

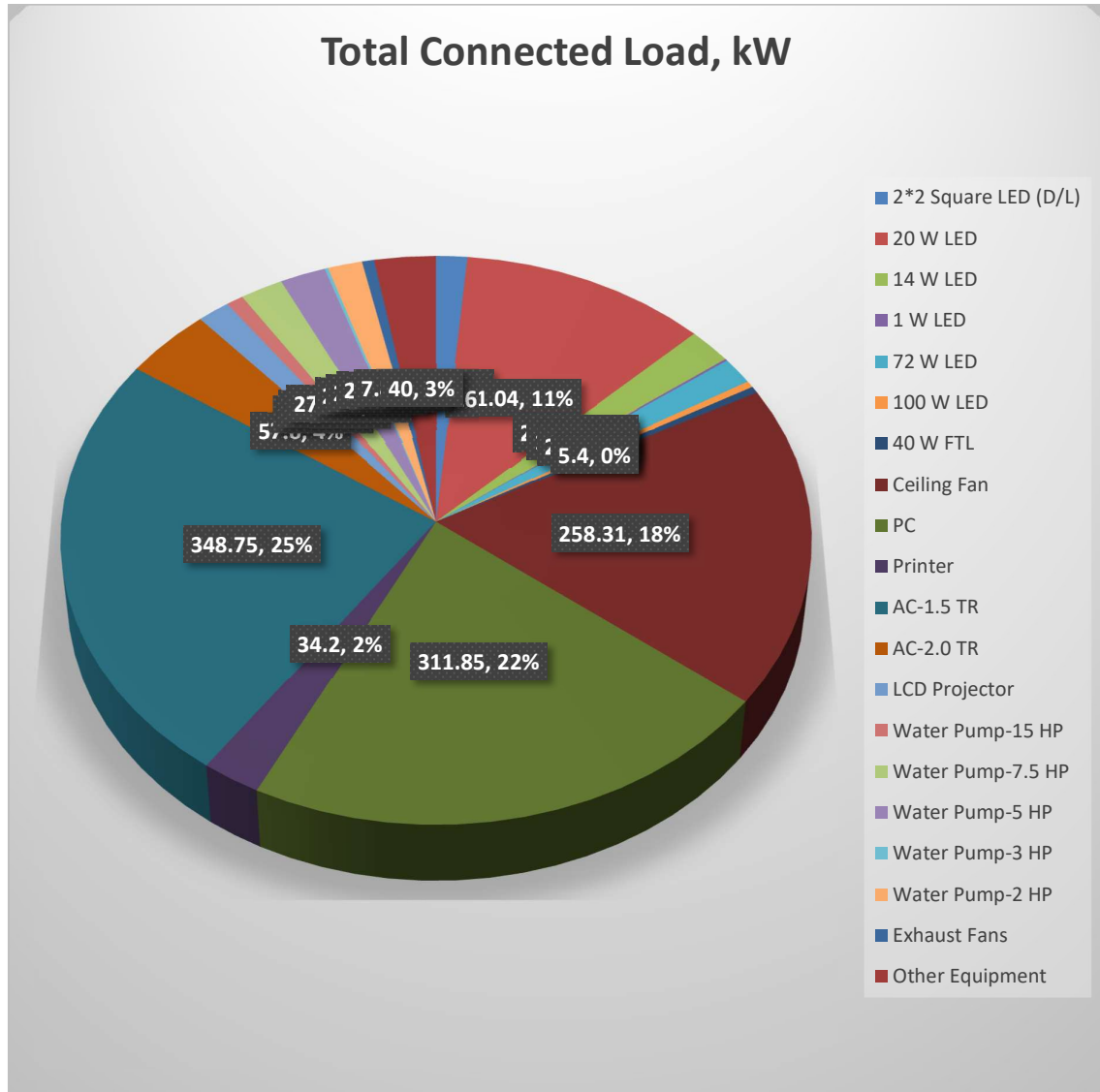
No	Location/Building	2*2'LED	20W LED	Fan	PC	Printer	A C
1	MANET	100	510	375	245	59	32
2	MANET- Workshop-1		58	49	1		
3	MANET- Workshop-2		11	15	4	1	
4	MANET- Workshop-3 (MOL Training Centre)	107	1	6	11	22	7
5	MANET- Workshop-4 (T.S. Vishwanath)		71	13	7	2	6
6	MANET- Bio Engineering Building		66	43	32	4	16
7	MANET Hostel Block-A, B, C, D, E, F		1629	993			
8	Design, Architecture, Fine Arts	250	271	260	148	19	13
9	Design College	32	596	197	179	4	22
10	Design Hostel-Boys & Girls		1374	371	4		1
11	School of Film & Television	5	774	297	303	33	16
12	Makers Space		279	67	49	1	5
13	Sangeet	3	377	67	6	3	32
14	Vedic Science		392	89	46		4
15	VC Bungalow, Admission Cell, Guest House, Tuck Shop		174	99	35	13	11
16	Laundry		32	29	2	1	
17	Raj Kapoor Bungalow		58	28	1	0	15
18	Raj Memorial		71	5	2	2	17
19	Raj Restaurant & Boat Club Hostel		168	59			8
20	Sports Complex		145	65	2	2	2
21	Engineering & I T Building	518	944	816	999	59	3
22	Workshop- Engineering		51	31	3	3	
	Total	1015	8052	3974	2079	228	210

Table No 3: Overall Connected Load:

No	Equipment	Qty	Load, W/Unit	Load, kW
1	2*2 Square LED (D/L)	1015	20	20.3
2	20 W LED	8052	20	161.04
3	14 W LED	2052	14	28.728
4	1 W LED	1608	1	1.608
5	72 W LED	300	72	21.6
6	100 W LED	52	100	5.2
7	40 W FTL	135	40	5.4
8	Ceiling Fan	3974	65	258.31
9	PC	2079	150	311.85
10	Printer	228	150	34.2
11	AC-1.5 TR	186	1875	348.75
12	AC-2.0 TR	24	2400	57.6
13	LCD Projector	142	150	21.3
14	Water Pump-15 HP	1	11190	11.19
15	Water Pump-7.5 HP	5	5595	27.975
16	Water Pump-5 HP	8	3730	29.84
17	Water Pump-3 HP	1	2238	2.238
18	Water Pump-2 HP	15	1492	22.38
19	Exhaust Fans	435	18	7.83
20	Other Equipment	160	250	40
21	Total			1417

We present the same in a PIE Chart as under:

Chart No 1: Overall Connected Load



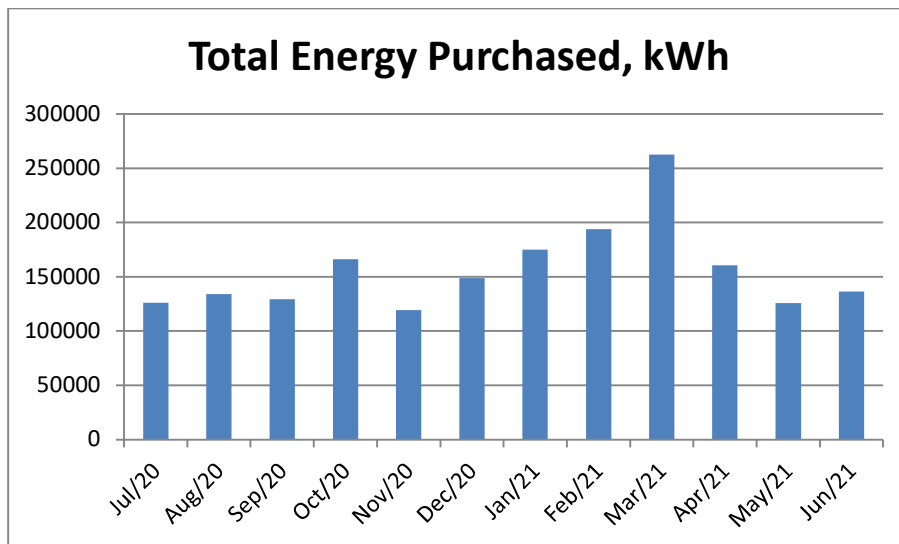
CHAPTER-III STUDY OF PRESENT ENERGY CONSUMPTION

In this chapter, we present the consumption of Electrical Energy for the Year: 2020-21.

Table No 4: Study of Consumption of Electrical Energy: 2020-21:

No	Month	Meter No:6620	Meter No:5120	Energy Purchased, kWh
1	Jul-20	56569	69399	125968
2	Aug-20	66411	67738	134149
3	Sep-20	70685	58816	129501
4	Oct-20	79959	86078	166037
5	Nov-20	63934	55342	119276
6	Dec-20	76192	72633	148825
7	Jan-21	75087	99784	174871
8	Feb-21	82741	110983	193724
9	Mar-21	110735	151684	262419
10	Apr-21	73701	86817	160518
11	May-21	65653	60186	125839
12	Jun-21	76872	59536	136408
13	Total	898539	978996	1877535
14	Maximum	110735	151684	262419
15	Minimum	56569	55342	119276
16	Average	74878.3	81583	156461.25

Chart No 2: Study of variation of Monthly Electrical Energy Consumption, kWh



Key Observations:

Table No 5: Various Important Parameters:

No	Parameter/ Value	Energy Purchased, kWh
1	Total	1877535
2	Maximum	262419
3	Minimum	119276
4	Average	156461.25

CHAPTER-IV

STUDY OF CARBON FOOTPRINTING

A Carbon Foot print is defined as the Total Greenhouse Gas Emissions, emitted due to various activities.

In this we compute the emissions of Carbon-Di-Oxide, by usage of the various forms of Energy used by the University for performing its day to day activities. The University uses Electrical Energy for various Electrical gadgets& day to day activities.

Basis for computation of CO₂ Emissions:

- 1 Unit kWh of Electrical Energy releases **0.9 Kg of CO₂** into atmosphere

Table No 6: Month wise CO₂ Emissions:

No	Month	Energy Purchased, kWh	CO₂ Emissions, MT
1	Jul-20	125968	113.37
2	Aug-20	134149	120.73
3	Sep-20	129501	116.55
4	Oct-20	166037	149.43
5	Nov-20	119276	107.35
6	Dec-20	148825	133.94
7	Jan-21	174871	157.38
8	Feb-21	193724	174.35
9	Mar-21	262419	236.18
10	Apr-21	160518	144.47
11	May-21	125839	113.26
12	Jun-21	136408	122.77
13	Total	1877535	1689.78
14	Maximum	262419	236.18
15	Minimum	119276	107.35
16	Average	156461.25	140.82

Chart No 3: Representation of Month wise CO₂Emissions:

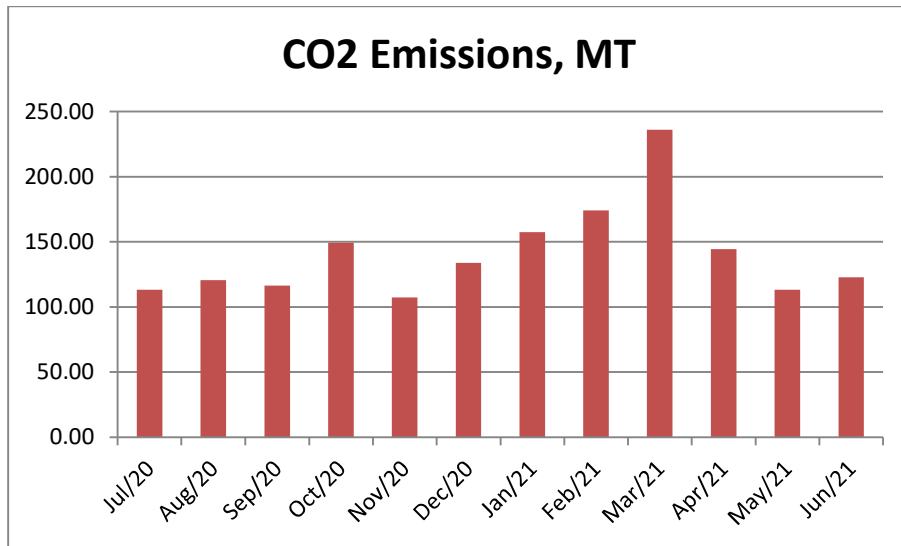


Table No 7: Various Important Parameters:

No	Parameter/ Value	Energy Consumed, kWh	CO ₂ Emissions, MT
1	Total	1877535	1689.78
2	Maximum	262419	236.18
3	Minimum	119276	107.35
4	Average	156461.25	140.82

CHAPTER-V

STUDY OF USAGE OF ALTERNATE ENERGY

The University has installed Roof Top Solar PV Plant, on various buildings as well as Solar Water Heating System on Hostel Blocks.

In the following Table, we present the details of Building wise Solar PV Plants installed and Solar Thermal Water Heating Systems installed.

Table No 8: Details of Building wise Roof Top Solar PV Plants:

No	Location	Solar PV Capacity, kWp
1	MANET Building(Admin Building)	113.4
2	MANET Hostel Block	170.1
3	Boat Club Building	56.7
4	Carpenter Shed	28.4
5	Health Club	56.7
6	Amphi Theatre	56.7
7	SFT Building	138.6
8	I T Building	46.6
9	Bakery Shed	47.5
10	Staff Quarter	17.5
11	Total	732.2

Table No 9: Details of Solar Thermal Water Heating Systems installed:

No	Location	Capacity in LPD
1	MANET-Hostel- G	6000
2	MANET-Hostel- E	5000
3	MANET-Hostel- F	5000
4	Guest House Building	2500
5	Staff Quarter-1	5000
6	Design College- Girls Hostel	36000
7	Design College- Boys Hostel	18000
8	Total	77500

In the following Table, we present the percentage of usage of Renewable Energy to Annual Power requirement.

Table No 10: Computation of Usage of Alternate Energy to Annual Power requirement:

No	Particulars	Value	Unit
1	Annual Energy Purchased from MSEDCL	1877535	kWh
2	Installed Solar PV Plant Capacity	732.2	kWp
3	Average Energy generated per Day	4	kWh
4	Annual Generation Days	300	Nos
5	Annual Electrical Energy generated by Solar PV Plant	878640	kWh
6	Total Annual Energy Requirement = (1) + (5)	2756175	kWh
7	Total Alternate Energy Generated/Saved = (5)	878640	kWh
8	% of Alternate Energy to Annual Energy Demand= (7) * 100/ (6)	31.88	%

Photograph of Roof Top Solar PV Plant



Photograph of Solar Thermal Water Heating System



CHAPTER VI

STUDY OF USAGE OF LED LIGHTS

In the following Table, we present the percentage of annual Lighting load met by LED lights.

Table No 11: Computation of % of Annual LED Lighting Load:

No	Particulars	Value	Unit
1	Quantity of 2*2 Square LED Fittings	760	Nos
2	Load per Fitting	20	W/Unit
3	Total Load of 2*2 Square LED Fittings	15.2	kW
4	Quantity of 20 W LED Fittings	3993	Nos
5	Load per Fitting	20	W/Unit
6	Total Load of 20 W LED Fittings	79.86	kW
7	Quantity of 14 W LED Fittings	2052	Nos
8	Load per Fitting	14	W/Unit
9	Total Load of 14 W LED Fittings	28.728	kW
10	Quantity of 1 W LED Fittings	1608	Nos
11	Load per Fitting	1	W/Unit
12	Total Load of 1 W LED Fittings	1.608	kW
13	Quantity of 72 W LED Fittings	300	Nos
14	Load per Fitting	72	W/Unit
15	Total Load of 72 W LED Fittings	21.6	kW
16	Quantity of 100 W LED Fittings	52	Nos
17	Load per Fitting	100	W/Unit
18	Total Load of 100 W LED Fittings	5.2	kW
19	Quantity of 40 W FTL Fittings	135	Nos
20	Load per Fitting	40	W/Unit
21	Total Load of 40 W FTL Fittings	5.4	kW
22	Total LED Lighting Load = 3+6+9+12+15+18	152.2	kW
23	Total Lighting Load= 3+6+9+12+15+18+21	157.6	kW
24	% of Usage of LED Lighting Load to Annual Lighting Demand=22*100/23	97	%

CHAPTER VII

RECOMMENDATION

1. During the Audit, it was observed that, at various locations like, Offices, Faculty cabins, Class rooms, Labs, even though the occupants were not present, still the Lights and Fans were ON. It is recommended to **Switch OF** the Electrical gadgets when not in use.
2. Install Sub meters at Main Distribution Panels of all University Buildings.
3. Keep Daily Data of Solar Energy generated.

ANNEXURE

BUILDING WISE CONNECTED LOAD

1. MANET Building & MANET Workshops: 1, 2, 3 & 4:

Building- MANET									
No	Location	2*2 S LED	20 W LED	40 W FTL	CFL	Fan	PC	Printer	AC
	Ground Floor								
1	Electrical Lab		8			6	5	2	
2	Electronics Lab		10			7	4	1	
3	Admission Cell	4				2	4	1	1 (2*)
4	Classroom 4		5			7	5	3	
5	113		5			6	5	3	
6	117		6			3	1		
7	Server Room								
8	109								
9	A 12								
10	A 13								
11	Mechanical Lab		17			6	1	1	
12	Cabin-1		6			6	13	4	
13	Cabin-2				6	6	1	1	
	1st Floor								
14	Computer Lab Engineering	27	1				37	1	4
15	Library		6			2	2		
16	Reading Hall		10			6			
17	Stack Room		12			4	2		
18	201 (under construction)								
19	Engine Simulator Lab	15				9	42	2	2
20	205		2			2	1	1	1
21	Accounts office								
22	208		3			1			
23	Department of Student Affair &								

	Strategic Cell								
24	Placement Cell	3	2		2	4	3	1 (2 star)	
25	Principal Cabin								
26	Pantry				1				
27	Conference Hall								
28	Centre for Future Skills Excellence				3	6	1	2 (central)	
29	Dr Karad Sir Cabin		3		6	1			
30	Office + Waiting Room				9	6	6	3(central)	
	2nd Floor								
31	312		7		6	1	1		
32	314		7		6	2			
33	311		7		6	2			
34	310		6		6	1			
35	M.R. office	4			1	1	1	1	
36	Faculty Room		2		2	1	1	1	
37	306		7		6	1			
38	305		7		6	1	1		
39	304		7		6	1			
40	301		8		5	1			
41	302		7		5	1			
42	303		7		6	1			
43	Auditorium	22	2		15	1		6 (3 star)	
44	308 (Drawing Hall)		13		10	1			
	3rd Floor								
45	401		7		5	1		1	
46	402		3		3	1	1		
47	403		4		6	1			
48	404		4		6	1			
49	405		5		5	1			
50	406		5		5	1			
51	407		5		5	1			
52	409		2		2	1	1		

53	408		5		5	1		
54	ERP Department	25	1		6	44	4	5
55	D9		4		4	1		
56	413		5		5	2		
57	412		2		2	2	1	1 (2 star)
58	414		5		5	2		
59	415		11		9			
60	418		12		6	5	1	
61	416		12		14			
62	Human Resource Development Department				7	5	3	
	4th Floor							
63	Admission Section				4	6	3	
64	502		12		6			
65	Seminar Hall				14	1		
66	501		11		6			
67	Staff Room				3	5	5	1
68	503		12		6	1	1	
69	Innovation, Strategy & Operation							1
70	Media Department		2		13	5		1 (central)
71	504		12		6			
72	Office				1	1	5	
73	505		12		6			
74	506		6		3			
75	509		6		3			
76	507		12		6			
77	office (under construction)		18		9			
78	office (under construction)		9		9			
79	Workshop No.1		58	54	49	1		
80	Workshop No.2		11	81	15	4	1	

MOL Training Centre-Workshop-3									
81	Seamanship Lab			6	20	6	1		
82	MOL training center passage				64				2
83	Marine Control Simulator Lab	36					2	1	2
84	Marine Control Classroom	36					1		2
85	Conference Room		1		24		4	1	1
86	Cabin-1	4						1	
87	Cabin-2	4						1	
88	Instructor Room	8						16	
89	Cabin Bridge-2			4	8		3	2	
90	Electrical workshop								
91	Simulator				17				
92	Server Room	19							
93	Cabin				8				2, 1(central)
Work Shop-4 T.S. Vishwanath									
94	Basement		5						
95	Ground Floor		17	1	22		1	1	
96	1st Floor		24			2			
97	2nd Floor								
98	Classroom-2		4			4	1		2
99	Classroom-1		4						2
100	Cabin		17			7	5	1	2
101	Corridor		123						

2. MANET Section- Bio Engineering Building:

No	Location	20 W LED	CFL	Fan	PC	Printer	AC	LCD Projector
Ground Floor								
1	Micro lab	7		6	4		3	
2	Bio lab	7		6	3			1
3	Material science lab	8		6, 13 ex	1			
4	Office	8		6	9	3	4	
5	corridor		21	1				
6	washroom	10						
1st floor								
1	Molecular lab		18	5	2		2	
2	BSL lab		12	3, 1ex	1		2	
3	Tissue Engg. lab	4	12	4	3		2	1
4	Betic	22	20	6	9	1 p+s	1	
5	Conference room		6	2 wf			2	1

3. MANET Hostel Blocks:

No	Location	20 W LED	Fan
F, A Block			
1	Block = 96	288	192, 192 ex
2	corridor	61	1
D,B Block			
3	Block = 200	600	400, 400 ex
4	corridor	40	
E,C Block			
5	Block = 200	600	400, 400 ex
6	corridor	40	

4. Design Architecture & Fine Arts:

No	Location	2*2 LED	20 W LED	Fan	PC	Printer	AC
1	Ground Floor		57	27	31	9	2
2	First Floor		45	35	11	3	2
3	Second Floor	96	115	50	11		
4	Third Floor	66	54	76	86	6	9
5	Fourth Floor	88		72	9	1	

5. Design College:

No	Location	2*2 LED	20 W LED	Ceiling Fan	PC	Printer	AC
	Ground Floor						
1	Data Centre		6	2	6		2
2	Faculty Room		12	6	2		
3	CL		13	8			
4	Computer Lab		11	5	38		2
5	Transportation Design Department		10	6	2		
6	Automotive Clay Sculpting Studio		67		5		2
7	Product Design 2		13	8	1		
8	Product Design 3		13	8	2		2
9	Stationary Store		3	1			
	First Floor						
1	Computer Lab		11	4	6		1
2	F-9		15	8	8		
3	F-10 A		5	5	1		
4	Cabins		10	5	5		1
5	F-7		12	8	1		
6	F-6 (section-1)		7	3	6		
7	section-2		6	5	30	2	
8	F-4	12	8	1			
9	F-3	12	8	1			

10	F-2	8	12	1			
	Second Floor						
1	S-5		13	5	1		2
2	Foundation Studio		30	18			
3	S-10						
4	S-7		12	8			
5	S-6		13	8	1		
6	S-4		13	8	1		
7	S-3		13	8	1		
8	Faculty Room		20	9	10		
	Third Floor						
1	T-7		9	8	6	1	
2	Animation Computer Lab		13	3	25	1	2
3	Animation Computer Lab (under construction)		6	4			
4	IT Innovation Programme		22	6	9		4
5	Drawing Studio		7	4	1		
6	T-5		8	7	9		4
7	T-3		13	8	1		
8	T-2		13	8	1		
	Corridor		149				

6. Design Hostel Boys & Girls:

No	Location	20 W LED	14 W (R/L)	0 W bulb	Fan	PC	Printer	AC
	Design Girls hostel 1							
1	lift room	1						
2	Block = 70	490	280	280	280 ex			
3	Corridor = 7	112, 14 = 51W						
	Basement							
4	Doctor room	3			1, 1 wf, 1 ex			

5	room	1			1			
6	washroom	1	3					
7	sports room	12			7, 1 wf			1
8	TV room	7			6			
9	store room	2			2			
10	electric room	1			1			
11	material room	1			1	2		
12	office	3			2, 1 wf			
	Design girls hostel 2							
13	corridor	25			1 wf			
14	Block = 10	70	40	40	60			
	Design boys hostel							
15	corridor	85			1 wf			
16	Block = 48	336	192	192	288			
17	office	112, 14 = 51W			1 wf	1		
18	warden office	112, 14 = 51W			2, 1 wf	1		

7. School of Film & Television:

No.	Location	20 W LED	18 W LED	2*2 Square LED (D/L)	Fan	PC	Printer	AC
	Ground floor – AIC							
1	corridor	19		1	1			
2	faculty block	19			6, 4 wf	5	1	
3	incubation center							
4	admin office				1			
5	fabrication lab				4, 2 wf	3	1 p+s	
6	cabin		8		2			
7	Lib lounge		22		2, 1 wf			
8	Maker space				5, 1 ex	6	1	3
9	pantry			4	1			
10	washroom	3			2 ex			
11	SCIL -1	4			6	2		
12	SCIL -2	3			6	3		
13	VAYU							
14	AGNI	3			7	3	1	
15	parisamvaad				5	2		

16	incubation center		2		1		1	
17	CEO Cabin				2	1	1 P+S	
18	faculty room	7			4	7	1 p+s	
19	Block 4	7			5	1		
20	Block 5	6			5	1		
21	Block 6							
22	Env. Bioengineering lab	11			5			
23	Biomech. & biomed. Imaging lab							
24	Microcontroller & biosensor lab				5	20		
25	Molecular modeling & simulation lab	9			6	17		
26	Biosystems & control lab	8						
27	Biomedical instrumentation lab	9			7	4		
28	Library & reading hall	7			4	4	1	
29	Block 1	7			5	1		
30	Block 2	7			5	1		
31	Block 3	6			5	1		
32	corridor	55						
	1st floor – Vishwaraj film studio							
33	corridor	37						
34	washroom	5	3		1 ex			
35	central server	2			1, 2 sf	4	1	3
36	library				6	1		3 c
37	training center				2	3	1	
38	student section	3			3	2	2	
39	admin office	1	4		1	2	1 P+S	1
40	Asso. Director		6		2	2	2	1 c
41	small class	3			2	1		1 c
42	master class 1	4			4			2 c
43	master class 2	4			4	1		2 c
44	Faculty Cabin							
45	Studio	75 W Focus LED			1 sf			4
46	Faculty Cabin	4			2, 1 sf	1	1 P+S	1
47	comp lab 1	7			4	20		
48	drama class	2			3		2 P+S	
49	equipment store	8			4	1	1	

	2nd floor							
50	212	4		2				
51	209	8		3	4			
52	211	4		2	5			
53	210	4		2	1			
54	213	4		2, 1 sf	1			
55	214	3		3	2			
56	academic and admission section	7		2, 1 ex	5	2		
57	editing room 2	2		1	3			1 – 1.5 ton
58	editing room 1	2		1	3			1 – 1.5 ton
59	editing room 3	1		1	4			1
60	editing room 4	2		1	6			1
61	sound studio							
62	sound studio							
63	main office	14		8	8	1 P+S		
64	Cabin (corporate innovation and leadership)	6, 4-40W		4	4	3		2 c
65	equipment store 2	3		1 sf				
66	equipment store 3	5						
67	property store 4							
68	faculty room 1	8		2, 2 ex	4	2 P+S		
69	faculty room 2	2		3	3	1, 2 P+S		
70	204	4		2	1			
71	205	4		2	1			
72	206							
73	library	12		4	5			
74	208							
75	corridor	37						
76	washroom	5	3	1 ex				
	3rd floor							
77	faculty block	20		9	14	2, 3 P+S		
78	seminar hall	14		9	1			
79	pantry	2		1, 1 ex				
80	faculty room	3		2				
81	fact checking	3		2	5			
82	TR 305	3		2	1			
83	TR 306	4		2	1			
84	Classroom 307	9		6	1			
85	TR 308	4		2	1			
86	TR 309	4		2	1			
87	faculty room	19		14	14			
88	studio room	2			2			

89	MV seminar hall	12			9	1		
90	faculty office	6			3	3		
91	Drama B	2				4		
92	311	2			1			
93	director room	2			1	1	1 P+S	
94	corridor	37						
95	washroom	5	3		1 ex			
	4th floor							
96	405	6			4	1		
97	406	6			4	1		
98	407	6			4	1		
99	seminar hall	9			4	1		
100	faculty room	6			3	3		
101	401				9			
102	402	9			4	1		
103	403				6	40		
104	bioinformatics			8	6	25		
105	corridor	37						
106	washroom	5	3		1 ex			

8. Makers Space:

No	Location	Fan	PC	Printer	AC	Projector	20 W LED
	Ground floor						
1	washroom	4 ex					8
2	paint shop	1, 1 wf, 1 ex(big)					5
3	medicine shop	4, 1 wf	2				13
4	model making studio	8 wf, 4 ex					8
5	metal studio	7 wf	1				13
6	advance manufacturing	6, 1 wf	3		1		12
7	store/control room	9	3	1, 1 p+s			18
8	corridor						7
9							
	1st floor – Fine Arts & Applied Arts						
1	washroom	4 ex					8
2	transport design						
3	Room 1	5					10

4	Room 2						
5	Studio 2 (A)	8	3				21
6	corridor						12
	2nd Floor						
1	corridor						15
2	washroom	4 ex					8
3	admin section	3	5	3 p+s	1		5
4	Studio 5 (A)	4 wf	2				9
5	Studio 1 (P)	5 wf	1			1	11
6	Studio 2 (P)	4 wf	1				9
7	Studio 6	5				1	10
8	Studio 3 (P)	5	2				9
9	Studio 1 (A)	8	1			1	27
		20 wf					
	3rd floor						
1	digital lab	4	21		3	1	12
2	faculty room	6	4				9
3	corridor						3
	4th floor						
1	sculpture studio	3					17

9. Sangeet:

No	Location	2*2 LED	20 W LED	16 W LED	Fan	PC	Printer	AC
	1st floor							
1	Hostel corridor		27					
2	Office 4		8		3			
3	Studio 1		6		2	1		
4	Studio 2		11		6			
5	Office 1		1		1	1	1 P+S	
6	Office 2		1		1, 1 wf	1	1	
7	Office 3		5		1 ex			1
8	Director	3	3		1			1

	2nd floor						
9	corridor (hostel)	32		1			
10	Hostel 24 rooms (101,...)	48		24			
11	7 Domes (Sa, Re,)	42					21
12	corridor (domes)	60					
	Ground floor						
13	corridor	60					
14	Toilet	7	56				
15	Statues						
	Ravikiran canteen						
16	canteen	62, 2 = 51W		24			9
17	kitchen	4		3, 1 ex(central)	3	1 P+S	
18	storage			1, 1 ex			

10. Vedic Science:

No	Location	20 W LED	Fan	PC	Printer	AC	Projector
	Ground floor						
1	G-1	13	3				
2	G-2	13	3				
3	G-3	11	4	1			1
4	Washroom-3	5					
5	science lab	4	2	2	1P+S		
6	staff room	4	2	5			
7	Dean	4	1	1		1	1
8	Girls common room	45	1				
9	ICTR	11	2	7			
10	G-4	11	2	1			1
11	G-5	11	2	1			
12	G-6	12	3	1			1
13	staff room	3	2	3			
14	admin office	2	1	2	1P+S, 1S		
15	corridor	51	1				

	1st floor						
16	Washroom-3	4	1 ex				
17	pantry	2	1				
18	staff cabin-10	10	7			1	
19	admin office	3	2	3	2 P+S		
20	Principal/Dean	3	2	1	1P+S	1	
21	Meeting room	3	1	1		1	1
22	office Neeta madam	2	1	1			
23	staff room	2	1	2			
24	IQAC	2	1	1			
25	curriculum lab	2	1	2			
26	store room	1	1				
27	staff room	4	2	4			
28	Marathi education	2	1	1			
29	Art & craft room	4	1	1			
30	Library	11	5	3	2 P+S		
31	corridor	28					
32	Cabin-4	4	4				
33	f-2	4	2				1
34	seminar hall	12	6	1			1
	2nd floor						
35	S-1	11	3				
36	seminar hall	24	6	1			1
37	S-2	8	2				
38	S-3	8	2				
39	S-4	11	3				
40	corridor	24	5				
41	washroom	3					

11. VC Bungalow, Admission Cell:

No	Location	20 W LED	14 W LED	Fan	PC	Printer	AC
	Ground floor						
1	corridor	4	24	3			

2	Room- H004, 5, 6, 7	20	4	8, 4 ex	1		1
3	H008	4		1, 1 ex			
4	VC bungalow(rooms)	13		5, 1 wf, 3 ex	1		5
5	Office 1,2		4	2	2	2	
6	ICT office	5		3	4	1	
7	waiting room/hall						
	1st floor						
8	corridor	8		4			
9	H102, 3	12		6, 2 ex			
10	H101, 6	8		2, 2 ex			
11	pantry	3		5, 2 wf	6	3	
12	Admission cell	8	12	5, 1 wf	8	3	4 (5*)
13	H104	7		3, 1 ex	3		
14	H105	1	14	4, 2 ex	10	4	1
	2nd floor						
15	corridor	6					
16	room- H202, 3, 4, 5	28		12, 4 ex			
17	H201, 6	6		2, 2 ex			
18	pantry	3		2			
19	Tuck shop/Dining	38, 9 =51W		32			

12. Laundry:

No	Location	20 W LED	40 W FTL	Fan	PC	Printer	AC
	Ground Floor						
	P & D offices						
1	Office 1	1	1	2	1	1 p+s	
2	Office 2	3					
3	Office 3	3					
4	Office 4	4					
5	Laundry	32		29	2	1	

13. R. K. Bungalow:

No	Location	20 W LED	7 W LED	Fan	PC	Printer	AC
	Ground Floor						
1	Room 1,2,3	8	2	6, 2 ex			4
2	Room 4(hall)	6		4			4
3	Dining	5		5			4
4	Room 5	3					
5	Room 6	4		1			1
6	Room 7	2		1, 1 ex			
7	Room 8	4		2, 1ex			
8	Room 9	4		4			1
9	Room 10	3		2	1		
10	Room 11	1					
11	Room 12						
12	Room 13	4					
13	Room 14	5		3			1
14	Room 15,16	6		2 ex			
15	Outdoors	5		1 wf			

14. Raj Memorial:

No	Location	20 W LED	14 W LED	1 W bulb	Fan	PC	Printer
	Ground Floor						
1	Reception	17			4, 2wf	1	1 p+s
2	Pagoda(1 to 6)			1260			
3	corridor	8		48			
4	corridor	6		48			
5	corridor	1		18			
6	corridor	6					
7	Pagoda 7 th			210			
8	corridor	4		24			
9	RK auditorium	4	24		5 wf		
10	corridor	7					
11	Central store	18			1, 1wf, 1ex	1	1 p+s

15. Raj Restaurant & Boat Club Hostel:

No	Location	20 W LED	Fan	PC	Printer	AC
1	Raj restaurant	3	8			8

Boat Club Hostel						
1st& 2nd floor						
2	19 = 2 bed room	38	19			
3	3 = 3 bed room	6	6			
4	7 = 4 bed room	28	28			
5	washroom	6				
6	1 st corridor	17	1			
7	2 nd corridor	33				
Ground floor						
8	Open Hall	30				
9	5 Rooms	10	5			

16. Sports Complex:

No	Location	20 W LED	Fan	PC	Printer
Ground floor					
1	Office	4	2	2	2 P+S
2	staff room	2	1		
3	Indoor games	11	12		
4	Washroom	2			
5	Changing room	2			
6	room	3	3		
7	corridor	17	1, 2 ex		
1st floor – Gym					
8	10 =office	10	10		
9	gym	16	18		
10	steam bath	4	2		
11	corridor	1			
2nd floor – Badminton					
12	badminton court	30			
13	13 =office	26	13		
14	corridor	10			

17. Engineering & I T:

No	Location	20 W LED	2*2 LED	Fan	PC	Printer	AC
1	Parking 1	115					
2	Parking 2	120					
3	Duct total	16		8			
	Ground floor						
4	Survey lab	2		1			
5	Applied mechanics	3		3			
6	Faculty Cabin	13		4	2	2 P+S	
7	Conf. HOD	15		2	2		
8	N004	6		5			
9	N005			10	4	1 P+S	
10	N006	6		5			
11	N007	6		5			
12	N008	6		5			
13	N009	6		6			
14	N10	6		5	1		
15	N11	7		5	2		
16	N14	23		7	4		
17	N13	8		5			
18	N15	6		5	37	1 P+S	
19	N16	8		5			
20	N17	6		5	1		
21	N18	7		5			
22	N19	5		5	1	1	
23	N20	5		5	1	1	
24	N12	4		1			
25	washroom	12		8 ex			
26	corridor		14				
	1st floor						
27	corridor		17				

28	washroom	12		8 ex			
29	N 101	2		1	2		
30	N 102	4		2			
31	Faculty Room	2		6	2	2 P+S	
32	N 104	5		5	2		
33	N 105			10	8	2	
34	N 106	6		5			
35	N 107	6		5			
36	N 108	6		5			
37	N 109	7		6	1		
38	N 110	6		5			
39	N 111	2	9	5	41		
40	N 112						
41	N 113	6		5	1	1	
42	N 114		24	5	50	2	
43	N 115			6	4		
44	N 116	6		5			
45	N 118	7		5	2		
46	N 117	6		5			
47	N 120	7		5	24	1	
48	N 119	6		5			
	2nd floor						
49	corridor		17				
50	washroom	12		8 ex			
51	N 201	2		1			
52	N 202	4		2	1		
53	Faculty Room			6	2	2	
54	N 204	5		5	1		
55	N 205	6		5			
56	N 206	5		5	1		
57	N 207	6		5			
58	N 208	5		5			
59	N 209			10	5	1	
60	N 210	6		5	2		
61	N 211	7		5	2		

62	N 212	4		1	14		
63	N 213	7		5	2		
64	N 214	6		4	36	1	
65	N 215	4		4			3
66	N 216	6		5	29	1	
67	N 217	8		6	1		
68	N 218	6		5			
69	N 219	6		5			
70	N 220	6		5	5		
71	N 221	6		5			
	3rd floor						
72	corridor		17				
73	washroom	12		8 ex			
74	Reading hall		28	22	12		
75	Library		38	22	29	2 P+S	
76	N 308		40	7	8		
77	N 307 admission cell		40	7	7	2 P+S	
78	N 304	5		5			
79	opposite to N 304	4		5	3		
80	N 303	6		5			
81	Admin office		15	17	18	3, 3 P+S	
82	Vice principal			2	1	1 P+S	
83	Principal			5			
	4th floor						
84	corridor		18				
85	washroom	12		8 ex			
86	N 401	2		1			
87	Prof. Sunil D.			6	2	2 P+S	
88	N 404	5		5			
89	N 405	6		5			
90	N 406	5		5	1		
91	N 408	5		5	1		
92	N 407	6		5			

93	N 409			7	7	1	
94	N 410			7	4		
95	comp lab	6		5	46		
96	N 412	4		1			
97	N 413	4		5	35	1	
98	N 414			7	8		
99	N 415	6		5	1		
100	N 416	6		5	8		
101	N 419	8		5	18	1	
102	N 418	7		5	1		
103	N 420	6		5	10		
104	N 421	7		5	5		
105	N 417	7		5	2		
	5th floor						
106	corridor		17				
107	washroom	12		8 ex			
108	510	6		5			
109	509	6		5			
110	507	6		5			
111	505	6		5			
112	conf hall,503 HOD	8		5	11	3	
113	501	2		1	2		
114	502			7	4	1 P+S	
115	504			8	7	1 P+S	
116	506			8	7	1 P+S	
117	508			8	7	1 P+S	
118	512				67	2	
119	511+513		25	12	3	1	
120	514	3		2	6	1	
121	516	10		8			
122	515	6		5			
123	517	6		5			
124	Seminar hall 1		20	1 sf	60		
125	Seminar hall 2		20	1 sf	57		

	6th floor						
126	corridor		11				
127	washroom	12		8 ex			
128	615 HOD	1		4	2	2 P+S	
129	616			7	7		
130	614	6		5			
131	613		28	12	63	1	
132	612	6		5			
133	611						
134	610			7	6		
135	609	6		5			
136	607	6		5			
137	608	2	16	6	24		
138	605	6		5			
139	606	2	16	6	32		
140	604			7	6		
141	603			4	3	2 P+S	
142	602			7	6	3 P+S	
143	601	3		1			
	7th floor						
144	corridor		17				
145	washroom	12		8 ex			
146	708	6		5	1		
147	707	6		5	1		
148	709	6		5	1		
149	710	6		5	1		
150	Faculty room		6				
151	706 comp lab		20	15	46	1 P+S	
152	705 MCA		6	5	1		
153	704		6	5	1		
154	703		6	5	1		
155	Faculty room			8	8		
156	702		6	5	1		
157	MITCON			6	7	1, 1 s, 1 P+S	

158	Principal			3	1		
159	Conf. Hall				1		
160	Placement dept.			4	6	1 P+S	
	8th floor						
161	corridor		17				
162	washroom	12		8 ex			
163	Office		4	11	10	1	
164	801			1	1		
165	802	2		5	1		
166	803	2		5	1		
167	812	2		5	1		
168	811	2		5	1		
169	804	2		5	1		
170	806	2		5	1		
171	805	2		5	1		
172	807	2		5	1		
173	810	2		5	1		
174	808	2		5	1		
175	809	2		5	1		

18. Engineering Workshop:

No	Location	20 W LED	Fan	PC	Printer
1	Workshop	49	31, 4 wf, 21 ex	2	1 P+S
2	Food Tech Lab	2	7 ex	1	1, 1 P+S