

Criterion 7 Institutional Values and Best Practices

Key Indicator 7.1 Institutional Values and Social Responsibilities

- 7.1.3 Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following
 - 1. Green audit / Environment audit
 - 2. Energy audit
 - 3. Clean and green campus initiatives
 - 4. Beyond the campus environmental promotion and sustainability activities





7.1.3 Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following

S.No	Description	Page.No
7.1.3 -1	 Green audit/ Environment audit	
7.1.3 -2	Energy audit	
1	Academic Year 2018-2019	4 - 66
2	Academic Year 2019-2020	67 - 129
3	Academic Year 2020-2021	Covid
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 - 7.1.3_1. Green Audit / Environment Audit
 - 7.1.3_2. Energy Audit





Academic Year 2018-2019



REPORT ON ENERGY, ENVIRONMENT AND GREEN AUDIT



PERI INSTITUTE OF TECHNOLOGY

PERI KNOWLEDGE PARK, MANNIVAKKAM, WEST
TAMBARAM, CHENNAI- 600 048.

AUDIT CONDUCTED AND REPORT PREPARED BY



NIN ENERGY INDIA PRIVATE LIMITED JUSA COMPLEX, NEW NO 47,OLD NO 21/2 PONNIAMMAN KOIL STREET, KOTTUR, CHENNAI-600085 TAMILNADU, INDIA

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PERI INSTITUTE OF TECHNOLOGY

ACKNOWLEDGEMENT

We thank management of PERI INSTITUTE OF TECHNOLOGY for awarding the Energy, Environment and Green Audit study at their facility at PERI Knowledge Park, Mannivakkam, West Tambaram, Chennai – 600 048 to NIN Energy India Private Limited. This report is the result of Energy Audit conducted at PERI INSTITUTE OF TECHNOLOGY January 2019.

We wish to thank the management of PERI INSTITUTE OF TECHNOLOGY for the support during the audit and for successful completion of the audit.

For NIN ENERGY INDIA PRIVATE LIMITED

(B. SENTHILKUMAR)

ACCREDITED ENERGY AUDITOR (AEA 023)

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ABBREVIATIONS

EE	Energy Efficiency
Dept	Department
EER	Energy Efficiency Ratio
INR	Indian Rupees
KLD	Kilo Litre per day
kWh	Kilo Watt hour
LED	Light Emitting Diode
LPG	Liquified petroleum gas
tCO2	Tonne of Co2

1.0 INTRODUCTION ABOUT GREEN AUDIT

Green Audit is the process of assessing the environmental impact of an organization, process, project, product, etc.

Green Audit is assigned to the Criteria 7 of NAAC, National Assessment and Accreditation Council which is a self-governing organization of India that declares the institutions as Grade A, Grade B or Grade C according to the scores assigned at the time of accreditation.

2.0 OBJECTIVES

In recent time, the Green Audit of an institution has been becoming a paramount important for self-assessment of the institution which reflects the role of the institution in mitigating the present environmental problems.

The college has been putting efforts to keep our environment clean since its inception. Therefore, the purpose of the present green audit is to identify, quantify, describe, and prioritize framework of Environment Sustainability in compliance with the applicable regulations, policies, and standards.

The main objectives of carrying out Green Audit are:

- To map the Geographical Location of the college
- To document the floral and faunal diversity of the college
- To record the meteorological parameter of college
- To document the ambient environmental condition of weather, air, water, and noise of the college
- To document the waste disposal system
- To estimate the Energy requirements of the college
- To report the expenditure on green initiatives during the last five years

3.0 ABOUT THE COLLEGE / UNIVERSITY

PERI Institute of Technology (PERI IT) was established in 2010 by the PERI Educational and Charitable Trust with the objective of providing quality technical education. The Institute is built at Mannivakkam, Chennai in a sprawling area of 15 acres replete with A/C classrooms, well equipped labs, A/C transport, cafeteria, and a vast library.

PERI IT offers both B.E. and M.E. courses and is recognized as an institution offering technical education by AICTE, New Delhi. It is affiliated to Anna University of Technology, Chennai.

GENESIS

The PERI Educational and Charitable Trust was founded in 2007. The vision of the trust is to provide a world class nodal centre of education where academics, communication, comprehension, visualization, practical application, and leadership skills are imparted through encouraging research, training, and development in technical and non-technical areas.

As part of its vision, the trust established PERI Institute of Technology in 2010 with B.E. courses in Mechanical, Civil, Computers and EEE. In 2011, B.E. ECE was introduced. M.E. Applied Electronics and M.E. Computer Science were added in 2012. M.E. Power Electronics & Drives and M.E. Communication Systems were introduced in 2014.

PERI IT is the brainchild of Mr. Saravanan Periasamy, the founding President & CEO of PERI Software Solutions Inc., a leading multinational IT Consulting and Services Company based in USA and the Chairman of the PERI Educational and Charitable Trust. He is the source of inspiration and the pathfinder for this institution.

ADMINISTRATIVE

PERI IT is administered by a governing council which comprises of representatives of the PERI Educational & Charitable Trust, representatives of the State Government, the Anna University of Technology, Chennai, the All-India Council of Technical Education, New Delhi and eminent scholars and industrialists. The Governing Council is responsible for planning and monitoring all academic and administrative activities of PERI IT. The day-to-day management is conducted by an academic and administrative set up helmed by Mr. Saravanan Periasamy.

4.0 ABOUT NIN ENERGY INDIA PRIVATE LIMITED

NIN Energy India Private Limited is providing Energy Related services like Energy Audit, Power Quality Audit, Infrared Thermography, Thermal Audit, PAT Monitoring and Verification Audit, PAT Consultancy, Green Building Commissioning, Electrical Safety Audit, Internet of Things, Carbon Foot Printing, etc. We have experienced team and helping the customers to manage and reduce their energy consumption.

We are providing complete Energy Services under one roof at a competitive price. Our team members are having more than 10 years of experience in Energy, Renewable Energy and Environmental Engineering with good Academic background.

Our Team Strength

- Accredited Energy Auditor by Bureau of Energy Efficiency, Government of India
- Certified Energy Auditors by Bureau of Energy Efficiency, Ministry of power
- Certified Measurement and Verification Professionals (CMVP) by EVO
- Certified Level II Thermographer
- Enlisted with Tamil Nādu Energy Development Agency (TEDA) as a system Integrator for Solar PV systems.
- Lead Auditors for ISO 50001 (Energy Management System)
- Lead Auditors for ISO 14064 (Green House Gas inventory and verification)
- Lead Auditors for ISO14000 (Environmental Management System)

4.1 AUDIT TEAM

The NIN Energy India private Limited team did the green audit assessment. Team details are as follows.

Name	Designation
Mr. B Senthil Kumar	Accredited Energy Auditor
Mr. T Karthikeyan	Certified Energy Auditor
Mr. S Senthamil Selvan	Sr. Engineer
Mr. S Harishragavendhar	Sr. Engineer

4.2 INSTRUMENTS USED FOR THE AUDIT

The NIN Energy India private Limited team did the green audit assessment. Instruments used for audit are as follows.

S. No	Name of the instrument
1	Air quality meter
2 Noise meter	
3 Lux meter	
4 Thermal Imager	
5 Clamp meter	

5.0 LOCATION OF THE INSTITUTION

Latitude

12.8859° N

Longitude

80.0608° E

6.0 GEOGRAPHICAL LOCATION WITH CAMPUS MAP IN SCALE

Land use data

CATEGORIES OF LAND USE	INDEX
Alpha Block	6117 Sq. ft
Zeta Block	23319 Sq. ft
Omega Block	12912 Sq. ft
Sigma Block	12912 Sq. ft
Beta Block	14463 Sq. ft
Delta Block	12143 Sq. ft
Theta Block	5159 Sq. ft
Plantation Area	206183 Sq. ft
Total Area	272.49 m ²

7.0 ENVIRONMENTAL AUDIT

Carbon footprint is the total sum of greenhouse gases (GHG) emission caused by an organization, event, product, or person. As we are aware, the increasing concentration of GHGs in the atmosphere can accelerate climate change and global warming, it is very necessary to measure these emissions from our day-to-day activities. The first step towards managing GHG emissions is to measure them. There are some standards and guidelines to measure GHG emissions like GHG protocol, ISO 14064, the more comprehensive one Life Cycle Assessment (LCA), and market-based mechanisms. Out of them, ISO 14064 is an offset protocol and independent, voluntary GHG project accounting standard helps to quantify GHG emission of the organization, event, product, or person.

Our day-to-day activities are dependent on electricity which is mostly coming from coal-based power plants, Diesel and Petrol for our vehicles and LPG for cooking in our kitchen. All the energy we use is derived from these fossil fuels which are GHG intensive. The following Petrol, Diesel, and LPG.

Floristic status of the institution:

The Current situation of planted trees are as follows:

Type of Trees	Total no of Trees
No of matured trees (Age more than 10 years)	94
No of Semi matured trees (Age below 10 years)	953
No of plants/herbs/Shrubs	286
No of medicinal plants	2
Any other plants details if any	3
Total	1338

Carbon absorption by flora in the Institution

Carbon absorption capacity of one matured tree = 6.8 kg of CO2. Carbon absorption capacity of one full grown tree = 3.4 kg of CO2. In bushes it absorbs an average of 200 g of CO2. The carbon absorption capacity of a 10-sq.ft. area of lawn is 1 g CO2.

- 1. Therefore, the carbon absorption capacity of 94 matured trees in the campus of the Institution ($94 \times 6.8 \text{ kg CO2/Annum}$) = 639.2 kg of CO2/Annum.
- 2. The carbon absorption capacity of 953 semi-grown trees in campus of 953 \times 3.4 kg CO2/Annum) = 3240 kg of CO2/Annum.

3. There are 286 bushes of various species being raised in the gardens of the Institution, total carbon absorption was calculated to be $286 \times 200 \text{ g CO2/Annum}$) = 57 kg of CO2/Annum The grand total of carbon absorption by the flora in the campus is 3936 kg per year.

CO2 REDUCTION MEASURES:

Energy Saving measures	CO2 reduction, Tons/Annum
Replace existing Conventional fan to BLDC Fan	86.53
Replace existing Wall mounted fan to BLDC Fan	3.06
Replace existing T8 36 to LED Light	19.98
Total	109.57

Net Carbon emission of the campus

Description	Unit	Values
Carbon emitted due to the energy consumption in the campus	tCO2 /year	325.14
Carbon absorption by mature trees, semi mature trees, bushes, and lawns	tCO2 /year	-39.36
Net carbon emission of the campus	tCO2 /year	285.78
Carbon reduction opportunities by energy saving projects	tCO2 /year	176.21

8.0 GREEN AUDIT

The list of tree species available in site

S. No	Botanical Name	Common Name	Numbers
1.	Azedaraches indica	Neem Tree	17
2.	Albizia lebbeck	Rain tree	15
3.	Tectona grandis Linn.	Teak	15
4.	Grevillea robusta	Silver Oak	16
5.	Acacia arabica	Black catechu	17

9.0 THE INSTITUTIONAL INITIATIVES FOR GREENING THE CAMPUS ARE AS FOLLOWS



















10.0 LAND USE ANALYSIS

GENERAL OVERVIEW OF THE CONCEPT OF LANDUSE Land use refers to man's activities and the various uses which are carried on and derived from land. Viewing the earth from space, it is now very crucial in man's activities on natural resource. In situations of rapid changes in land use, observations of the Earth from space give the information of human activities and utilization of the landscape. Remote sensing and GIS techniques are now providing new tools for advanced land use mapping and planning. The collection of remotely sensed data facilitates the synoptic analyses of earth system, functions, patterning, and change in the local, regional as well as at global scales over time. Satellite imagery particularly is a valuable tool for generating land use map.

11.0 LAND USE (BUILT UP AREA) ANALYSIS

S. No	Name of the Building	Year of Construction	No of Rooms	No. Of Labs
1	Alpha Block	2010	11	5
2	Beta Block	2010	36	27
3	Delta Block (Ground Floor+2)	2010	45	3
4	Delta Block (3rd Floor)	2013	45	
5	Theta Block	2010	Canteen and Library	
6	Omega Block (G.F)	2010	87	Days Hastal
7	Omega Block (first to third)	2014	67	Boys Hostel
8	Sigma Block (GF)	2015	24	Girls Hostel
9	Zeta Block (GF)	2016	11	6
10	Driver & Security Cabin	2011	1	0

12.0 STAFFS AND STUDENTS' DETAILS

The staff and student details are as follows.

No of student's details	896
No of Teaching staff	74
No of Non-Teaching staff	20

13.0 TREE DIVERSITY OF THE COLLEGE/ UNIVERSITY

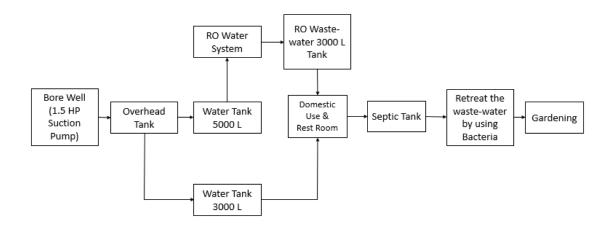
The list of tree species available in site

S. No	Botanical Name	Common Name	Numbers
1.	Azadirachata indica	Neem Tree	17
2.	Albizia lebbeck	Rain tree	15
3.	Tectona grandis Linn.	Teak	15
4.	Grevillea robusta	Silver Oak	16
5.	Acacia arabica	Black catechu	17

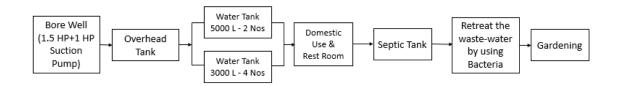
14.0 WATER AUDIT

14.1 DIFFERENT SOURCES OF WATER AND QUANTITY RECEIVED ON MONTHLY BASIS AND AREAS OF UTILIZATION

BETA BLOCK WATER RESOURCE LAYOUT



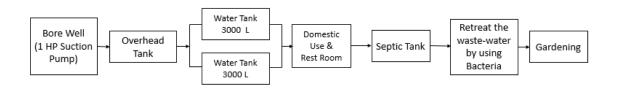
OMEGA BLOCK WATER RESOURCE LAYOUT



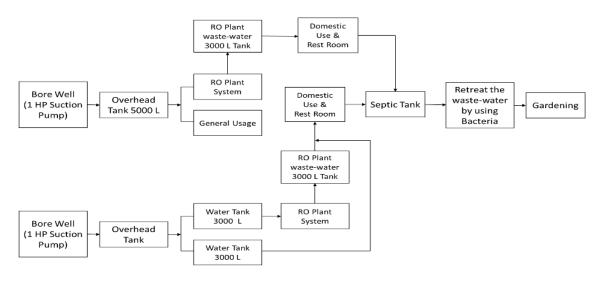
SIGMA BLOCK WATER RESOURCE LAYOUT



ZETA BLOCK WATER RESOURCE LAYOUT



DELTA BLOCK WATER RESOURCE LAYOUT



ALPHA BLOCK WATER RESOURCE LAYOUT



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S. No	Parameters	Response
1	Source of water	GROUND SIDE WATER
2	No of Wells	2
3	No of bore wells used	7
4	No of motors used	8
5	Overall average water consumption in the institution per day (in litres)	78,000 LITRES
6	Average drinking water consumption in the hostel per day (in litres)	890 LITRES
7	Average drinking water consumption in the college per day (in litres)	4,100 LITRES
8	Average Water consumption for washroom per day (in litres)	33,000 LITRES
9	Average Water consumption for gardening per day (in litres)	44,000 LITRES

COOKING

	LPG CYLINDER				
S. No	Description	Details			
1	No of students in a hostel	330			
2	Average LPG cylinder usage per day 6 PER WEEK				
3	Average LPG cylinder usage per month 24				
4	Average LPG cylinder usage per Year	288			
5	Cost of one LPG cylinder	1400 RS (19 KGS)			
6	Food wasted by students/staff per day?	160 KG PER DAY			

REST ROOM (TOILETS)

	HYGIENIC MEASURES	
S. No	Description	Details
1	No of rest rooms available in the campus	32 NOS
2	Availability of lighting and ventilation facilities?	YES
3	Frequency of cleaning the rest rooms per day / week?	PER DAY ONES

14.2 WATER CONSERVATION FACILITIES AVAILABLE IN THE INSTITUTION

14.2.1 Rainwater harvesting



14.2.2 Borewell /Open well recharge



15.0 TYPES OF DEGRADABLE AND NON-DEGRADABLE WASTE

The college's degradable and non-degradable waste given to municipality corporation.

16.0 LUX LEVEL

The lux level survey is carried out in various location of campus and details are as follows.

S. No	Block	Floor	Location	Average Lux level	Recommended lux level as per standard
1	BETA	Ground floor	BG-3_ Manufacturing technology	101	300
2	BETA	Ground floor	Engines lab and Thermal lab	276	300
3	BETA	Ground floor	BG-1_ Electrical machines lab	165	300
4	BETA	Ground floor	Engineering practical lab (Mechanical)	124	300
5	BETA	Ground floor	Gents rest room	85	100
6	BETA	Ground floor	Hydraulics' and FM Lab	156	300
7	BETA	Ground floor	Mechanical HOD room	186	300
8	BETA	Ground floor	CSE Project lab	240	300
9	BETA	First floor	BF-8	324	300
10	BETA	First floor	Project lab	101	300
11	BETA	First floor	BF-4_ Microprocessor lab	164	300
12	BETA	First floor	Conference hall	110	300
13	BETA	Second floor	BS-7_ Tutorial room	94	300
14	BETA	Second floor	Communication lab	504	300
15	BETA	Third floor	IOT Lab	408	300
16	BETA	Third floor	Classroom	346	300
17	DELTA	Ground floor	Classroom	215	300
18	DELTA	Ground floor	Computer science lab	236	300
19	DELTA	Ground floor	Staff room	247	300
20	DELTA	First floor	DF-3	219	300
21	DELTA	First floor	DF-3	225	300
22	DELTA	First floor	DF-1_ Staff room	146	300
23	DELTA	First floor	Chemistry lab	254	300
24	DELTA	First floor	DF-6_ Physics lab	247	300
25	DELTA	Second floor	DS-10_ Classroom	106	300
26	DELTA	Second floor	Lecture hall	308	300
27	DELTA	Third floor	DT-7 classroom	214	300
28	DELTA	Third floor	DT-1 Classroom	235	300
29	THETA	Ground floor	Library	249	300
30	THETA	First floor	Canteen	308	300
31	ZETA	Ground floor	Classroom	267	300
32	ZETA	Ground floor	Classroom	257	300
33	ZETA	Ground floor	Lab-1	624	300
34	ZETA	Ground floor	Lab-2	508	300
35	ZETA	Ground floor	Lab-4	326	300
36	ZETA	Ground floor	Lab-5	274	300
37	OMEGA	Ground floor	Boys hostel_ Rooms	256	200
38	OMEGA	Ground floor	Boys hostel_ Canteen	108	200

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S. No	Block	Floor	Location	Average Lux level	Recommended lux level as per standard
39	ALPHA	Ground floor	Waiting hall	76	300
40	ALPHA	Ground floor	Admin office	57	300
41	ALPHA	Ground floor	Lab	165	300
42	ALPHA	Ground floor	Classroom	106	300
43	GAMMA	Ground floor	Ladies hostel_ Rooms	138	200
44	GAMMA	Ground floor	Ladies hostel_ Rooms	238	200

Remarks:

It is observed that over all lux level is good in campus. Only few areas lux level needs to be improved by adding addition light.

17.0 AIR QUALITY OF THE COLLEGE

The Air (Prevention and Control of Pollution) Act 1981 was enacted by the Central Government with the objective of arresting the deterioration of air quality. The Air (Prevention and Control of Pollution) Act 1981 describes the main functions of the Central Pollution Control Board (CPCB) as follows:

- To Advise the Central Government on any matter concerning the improvement of the quality the air and the prevention, control, and abatement of air pollution.
- To plan and cause to be executed a nation-wide programme for the prevention, control, and abatement of air pollution.
- To provide technical assistance and guidance to the State Pollution Control Board.
- To carry out and sponsor investigations and research related to prevention, control, and abatement of air pollution.
- To collect, compile and publish technical and statistical data related to air pollution; and
- To lay down and annul standards for the quality of air.

Particulate Matter (PM10 & PM2.5)

A mixture of particles with liquid droplets in the air forms particulate matter. PM 10 are particles that have a size of less than or equal to 10 microns whereas PM2.5 are ultra-fine particles having a size of less than or equal to 2.5 microns.

Sources:

Particulate Matter is released from constructions, smoking, cleanings, renovations, demolitions, constructions, natural hazards such as earthquakes, volcanic eruptions, and emissions from industries such as brick kilns, paper & pulp, etc.

Related effects:

These particles, when inhaled, can penetrate deeper into the respiratory system, and cause respiratory ailments such as asthma, coughing, sneezing, irritation in the airways, eyes, nose, throat irritation, etc. Studies have also shown links between PM exposure and diabetes.

The air quality details are as follows.

C. No.	Dia di	Floor	l a cabica	Air	Quality lev	<i>r</i> el
S. No	Block	Floor	Location	PM 1.0	PM 2.5	PM 10
1	ВЕТА	Ground floor	BG-3_ Manufacturing technology	44	63	75
2	BETA	Ground floor	Engines lab and Thermal lab	40	66	74
3	BETA	Ground floor	BG-1_ Electrical machines lab	34	63	89
4	BETA	Ground floor	Engineering practical lab (Mechanical)	32	93	75
5	BETA	Ground floor	Gents rest room	44	57	74
6	BETA	Ground floor	Hydraulics' and FM Lab	34	61	75
7	BETA	Ground floor	Mechanical HOD room	36	70	82
8	BETA	Ground floor	CSE Project lab	31	70	97
9	BETA	First floor	BF-8	33	63	85
10	BETA	First floor	Project lab	41	66	82
11	BETA	First floor	BF-4_ Microprocessor lab	44	66	97
12	BETA	First floor	Conference hall	32	70	97
13	BETA	Second floor	BS-7_ Tutorial room	36	57	85
14	BETA	Second floor	Communication lab	47	61	89
15	BETA	Third floor	IOT Lab	43	71	82
16	BETA	Third floor	Classroom	43	70	75
17	DELTA	Ground floor	Classroom	44	66	97
18	DELTA	Ground floor	Computer science lab	32	70	97

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				Air	Quality lev	rel
S. No	Block	Floor	Location	PM 1.0	PM 2.5	PM 10
19	DELTA	Ground floor	Staff room	44	70	74
20	DELTA	First floor	DF-3	34	87	75
21	DELTA	First floor	DF-3	29	93	74
22	DELTA	First floor	DF-1_ Staff room	36	57	85
23	DELTA	First floor	Chemistry lab	47	61	89
24	DELTA	First floor	DF-6_ Physics lab	40	66	72
25	DELTA	Second floor	DS-10_ Classroom	47	61	89
26	DELTA	Second floor	Lecture hall	43	71	82
27	DELTA	Third floor	DT-7 classroom	43	70	75
28	DELTA	Third floor	DT-1 Classroom	44	66	97
29	THETA	Ground floor	Library	32	70	97
30	THETA	First floor	Canteen	44	70	74
31	ZETA	Ground floor	Classroom	34	87	75
32	ZETA	Ground floor	Classroom	29	93	74
33	ZETA	Ground floor	Lab-1	32	70	97
34	ZETA	Ground floor	Lab-2	44	70	74
35	ZETA	Ground floor	Lab-4	34	87	75
36	ZETA	Ground floor	Lab-5	29	93	74
37	OMEGA	Ground floor	Boys hostel_ Rooms	36	57	85
38	OMEGA	Ground floor	Boys hostel_ Canteen	29	93	74
39	ALPHA	Ground floor	Waiting hall	36	57	85
40	ALPHA	Ground floor	Admin office	44	66	97
41	ALPHA	Ground floor	Lab	43	68	74
42	ALPHA	Ground floor	Classroom	37	57	75
43	GAMMA	Ground floor	Ladies hostel_ Rooms	35	63	74
44	GAMMA	Ground floor	Ladies hostel_ Rooms	41	66	85

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Remarks:

It is observed that Air quality is found to be satisfactory.

18.0 NOISE LEVEL IN THE SURROUNDING OF COLLEGE

THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000

(The Principal Rules were published in the Gazette of India, vide S.O. 123(E), dated 14.2.2000 and subsequently amended vide S.O. 1046(E), dated 22.11.2000, S.O. 1088(E), dated 11.10.2002, S.O. 1569 (E), dated 19.09.2006 and S.O. 50 (E) dated 11.01.2010 under the Environment (Protection) Act, 1986.)

Ambient Air Quality Standards in respect of Noise

Area Code	Catagory Of Aven/Zone	Limits In dB(A) Leq*		
Area Code	Category Of Area/Zone	Day Time	Night-time	
(A)	Industrial area	75	70	
(B)	Commercial area	65	55	
(C)	Residential area	55	45	
(D)	Silence Zone	50	40	

Note: -

- 1. Day time shall mean from 6.00 a.m. to 10.00 p.m.
- 2. Night-time shall mean from 10.00 p.m. to 6.00 a.m.
- 3. Silence zone is an area comprising not less than 100 metres around hospitals, educational institutions, courts, religious places, or any other area which is declared as such by the competent authority.
- Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.
- 5. * dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
- 6. A "decibel" is a unit in which noise is measured.
- 7. "A", in dB(A) Leq, denotes the frequency weighting in the measurement of
- 8. noise and corresponds to frequency response characteristics of the human ear.

9. Leq: It is an energy mean of the noise level over a specified period.

The noise level in the campus details are as follows.

S. No	Block	Floor	Location	Noise level, dB
1	BETA	Ground floor	BG-3_ Manufacturing technology	58
2	BETA	Ground floor	Engines lab and Thermal lab	84
3	BETA	Ground floor	BG-1_ Electrical machines lab	94
4	BETA	Ground floor	Engineering practical lab (Mechanical)	76
5	BETA	Ground floor	Gents rest room	83
6	BETA	Ground floor	Hydraulics' and FM Lab	81
7	BETA	Ground floor	Mechanical HOD room	107
8	BETA	Ground floor	CSE Project lab	89
9	BETA	First floor	BF-8	85
10	BETA	First floor	Project lab	76
11	BETA	First floor	BF-4_ Microprocessor lab	81
12	BETA	First floor	Conference hall	80
13	BETA	Second floor	BS-7_ Tutorial room	126
14	BETA	Second floor	Communication lab	84
15	BETA	Third floor	IOT Lab	91
16	BETA	Third floor	Classroom	82
17	DELTA	Ground floor	Classroom	87
18	DELTA	Ground floor	Computer science lab	89
19	DELTA	Ground floor	Staff room	75
20	DELTA	First floor	DF-3	79
21	DELTA	First floor	DF-3	104
22	DELTA	First floor	DF-1_ Staff room	91
23	DELTA	First floor	Chemistry lab	79
24	DELTA	First floor	DF-6_ Physics lab	93
25	DELTA	Second floor	DS-10_ Classroom	52
26	DELTA	Second floor	Lecture hall	74
27	DELTA	Third floor	DT-7 classroom	106
28	DELTA	Third floor	DT-1 Classroom	85
29	THETA	Ground floor	Library	76
30	THETA	First floor	Canteen	101
31	ZETA	Ground floor	Classroom	79
32	ZETA	Ground floor	Classroom	78
33	ZETA	Ground floor	Lab-1	94
34	ZETA	Ground floor	Lab-2	82
35	ZETA	Ground floor	Lab-4	68
36	ZETA	Ground floor	Lab-5	99

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S. No	Block	Floor	Location	Noise level, dB
37	OMEGA	Ground floor	Boys hostel_ Rooms	74
38	OMEGA	Ground floor	Boys hostel_ Canteen	79
39	ALPHA	Ground floor	Waiting hall	99
40	ALPHA	Ground floor	Admin office	81
41	ALPHA	Ground floor	Lab	83
42	ALPHA	Ground floor	Classroom	97
43	GAMMA	Ground floor	Ladies hostel_ Rooms	79
44	GAMMA	Ground floor	Ladies hostel_ Rooms	89

Remarks:

It is observed that few areas noise level is higher than 65 db. It is recommended to reduce the noise level in mentioned location.

19.0 ENERGY AUDIT

The plant receives two LT EB supply from TNEB. The LT Supply details as follows.

Source Of Power Supply	:	TNEB
Electric Power Supply is received from TANGEDCO	:	LT supply
Service number	:	09-571-001-3041 and 09-571-001-6732
Sanction Load, kW	:	112
Annual Electricity Consumption, kWh	:	382514.6457
Unit charges, Rs/kWh	:	6.35

The one-year Electricity Bills for 2018-19 bill has been analysed and details as follows.

SERVICE NUMBER:	09-571-001-3041 and 09-	571-001-6732
Month	Consumed Units, kWh	Total bill, INR
Jan-18	22538	143114
Feb-18	22538	143114
Mar-18	33685	213897
Apr-18	33685	213897
May-18	41863	265829
Jun-18	36422	231279

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SERVICE NUMBER:	09-571-001-3041 and 09-	571-001-6732
Month	Consumed Units, kWh	Total bill, INR
Jul-18	27346	173646
Aug-18	19130	121478
Sep-18	7829	49717
Oct-18	45827	290999
Nov-18	45827	290999
Dec-18	45827	290999

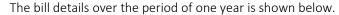
Remarks:

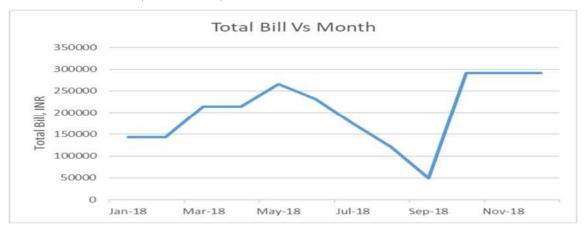
The plant had only few month EB Bills. We taken average with available bills.

The units consumed over the period of one year is shown below.



The maximum unit is consumed in the month of October 2018 and minimum unit is consumed in the month of December 2022.





The maximum bill is paid in the month of December 2018 and minimum in the month of September 2018

20.0 LIGHT DETAILS

The light details of the campus are as follows.

			LIGHT DETAILS				
S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	TYPE OF LIGHT	NO OF LIGHTS	WATTAGE	OPERATING HOURS
1	BETA BLOCK	Ground floor	BG1	T8 36	12	20	8 HOURS
2	BETA BLOCK	Ground floor	BG 2	Т8 36	4	20	8 HOURS
က	BETA BLOCK	Ground floor	BG3	Т8 36	9	20	8 HOURS
4	BETA BLOCK	Ground floor	BG4	T8 36	3	20	8 HOURS
2	BETA BLOCK	Ground floor	BG5	Т8 36	2	20	8 HOURS
9	BETA BLOCK	Ground floor	BG6	Т8 36	9	20	8 HOURS
7	BETA BLOCK	Ground floor	BG7	Т8 36	3	20	8 HOURS
8	BETA BLOCK	Ground floor	BG8	Т8 36	1	20	8 HOURS
6	BETA BLOCK	Ground floor	BG9	Т8 36	1	20	8 HOURS
10	BETA BLOCK	Ground floor	BG10	T8 36	7	20	8 HOURS
11	BETA BLOCK	Ground floor	BG11	Т8 36	2	20	8 HOURS
12	BETA BLOCK	Ground floor	BG12	T8 36	9	20	8 HOURS
13	BETA BLOCK	Ground floor	BG13	T8 36	4	20	8 HOURS
14	BETA BLOCK	Ground floor	BG14	Т8 36	1	20	8 HOURS
15	BETA BLOCK	Ground floor	BG15	Т8 36	2	20	8 HOURS
16	BETA BLOCK	Ground floor	BG16	T8 36	11	20	8 HOURS
17	BETA BLOCK	FRIST FLOOR	BF11	Т8 36	9	20	8 HOURS
18	BETA BLOCK	FRIST FLOOR	BF12	T8 36	8	20	8 HOURS
19	BETA BLOCK	FRIST FLOOR	BF13	T8 36	9	20	8 HOURS
20	BETA BLOCK	FRIST FLOOR	BF14	T8 36	2	20	8 HOURS
21	BETA BLOCK	FRIST FLOOR	BF15	T8 36	Н	20	8 HOURS
22	BETA BLOCK	FRIST FLOOR	BF16	T8 36	က	20	8 HOURS

OPERATING HOURS 8 HOURS 8 HOURS **8 HOURS** 8 HOURS WATTAGE 20 20 20 20 20 20 20 20 36 20 20 20 20 20 20 20 20 20 20 LIGHTS 29 ⊣ 2 7 3 4 4 / $^{\circ}$ 2 4 6 6 6 FALSE CEILING **TYPE OF LIGHT** FALSE CEILING FALSE CEILING PL LIGHT T8 36 T8 36 T8 36 LIGHT T8 36 LIGHT LIGHT Page 28 of 62 **LIGHT DETAILS** LOCATION **BF19** BF20 **BF17 BF18** BF21 BF10 BF1 BF3 BF4 BF5 BF6 BF8 BF9 BF2 BF7 BS1 **BS2 BS4 BS5 BS3** SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR FRIST FLOOR FLOOR NAME OF THE BLOCK **BETA BLOCK BETA BLOCK** S. NO 24 25 26 28 29 30 31 32 33 34 35 36 38 33 4 42 23 27 37 41

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			LIGHT DETAILS				
S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	TYPE OF LIGHT	NO OF LIGHTS	WATTAGE	OPERATING HOURS
43	BETA BLOCK	SECOND FLOOR	BS6	T8 36	5	20	8 HOURS
44	BETA BLOCK	SECOND FLOOR	BS7	T8 36	2	20	8 HOURS
45	BETA BLOCK	SECOND FLOOR	BS8	T8 36	4	20	8 HOURS
46	BETA BLOCK	SECOND FLOOR	BS9	T8 36	4	20	8 HOURS
47	BETA BLOCK	SECOND FLOOR	BS10	T8 36	1	36	8 HOURS
48	BETA BLOCK	SECOND FLOOR	BS11	T8 36	9	20	8 HOURS
49	BETA BLOCK	SECOND FLOOR	BS12	T8 36	9	20	8 HOURS
20	BETA BLOCK	SECOND FLOOR	BS13	T8 36	5	20	8 HOURS
51	BETA BLOCK	SECOND FLOOR	BS13	T8 36	1	20	8 HOURS
25	BETA BLOCK	SECOND FLOOR	BS14	T8 36	2	20	8 HOURS
53	BETA BLOCK	SECOND FLOOR	BS15	T8 36	1	20	8 HOURS
54	BETA BLOCK	SECOND FLOOR	BS16	T8 36	3	20	8 HOURS
55	BETA BLOCK	SECOND FLOOR	BS17	T8 36	4	20	8 HOURS
26	BETA BLOCK	SECOND FLOOR	BS18	T8 36	1	20	8 HOURS
22	BETA BLOCK	SECOND FLOOR	BS19	T8 36	10	20	8 HOURS
28	BETA BLOCK	Third floor	BT1	T8 36	9	20	8 HOURS
29	BETA BLOCK	Third floor	BT2	T8 36	7	20	8 HOURS
09	BETA BLOCK	Third floor	ВТ3	T8 36	7	20	8 HOURS
61	BETA BLOCK	Third floor	BT4	T8 36	3	20	8 HOURS
62	BETA BLOCK	Third floor	BT5	T8 36	9	20	8 HOURS
63	BETA BLOCK	Third floor	ВТ6	T8 36	4	20	8 HOURS
64	BETA BLOCK	Third floor	BT7	T8 36	3	20	8 HOURS

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OPERATING HOURS 8 HOURS WATTAGE LIGHTS 13 4 2 4 $^{\circ}$ $^{\circ}$ 4 $^{\circ}$ 3 4 4 က 4 4 4 4 \vdash \vdash **TYPE OF LIGHT** T8 36 **LIGHT DETAILS** LOCATION **BT16** BT10 BT11 **BT12** BT13 **BT14 BT15 BT17** BT18 BT19 BT20 BT22 BT23 **BT24 BT21** DG1 DG2 DG3 DG4 **DG**2 BT8 **BT9 Ground floor Ground floor Ground floor Ground floor Ground floor** Third floor FLOOR NAME OF THE BLOCK **DELTA BLOCK DELTA BLOCK DELTA BLOCK DELTA BLOCK DELTA BLOCK BETA BLOCK** S. NO 67 89 69 70 71 72 73 74 75 76 77 78 79 8 81 84 85 65 99 82 83

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OPERATING HOURS 8 HOURS 8 HOURS WATTAGE LIGHTS 8 25 8 8 10 5 6 0 8 2 4 4 4 4 7 \vdash ∞ / က 4 **TYPE OF LIGHT** T8 36 T8 36 **T836** T8 36 **LIGHT DETAILS** DG PASSAGE AREA OCATION. DG18 DG10 DG11 DG12 DG13 DG14 DG15 DG16 99**0** DG9 DG17 DG8 DF1 DG7 DF2 DF3 DF4 DF5 DF6 DF7 **Ground floor** FRIST FLOOR FRIST FLOOR FRIST FLOOR FRIST FLOOR Ground floor **Ground floor Ground floor** FRIST FLOOR FRIST FLOOR FRIST FLOOR FRIST FLOOR **Ground floor Ground floor** FLOOR NAME OF THE BLOCK **DELTA BLOCK DELTA BLOCK** S. NO 102 103 104 105 106 107 108 100 101 93 94 95 96 97 98 66 88 89 90 91 92 87

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OPERATING HOURS 8 HOURS WATTAGE LIGHTS 15 2 2 9 4 9 2 $^{\circ}$ 4 4 2 4 2 9 4 m က 4 4 $^{\circ}$ **TYPE OF LIGHT** T8 36 T8 36 **T836** T8 36 **LIGHT DETAILS DF PASSAGE AREA DS PASSAGE AREA** LOCATION DS 10 **DS 2 DS3** DS 4 DS 5 **DS** 6 DS 7 **DS8** DS 9 DF9 **DS 1** DT3 DT4 DT5 DT6 DT8 DT1 DT2 DT7 DT9 SECOND FLOOR FRIST FLOOR FRIST FLOOR Third floor FLOOR NAME OF THE BLOCK **DELTA BLOCK DELTA BLOCK** S. NO 116 109 110 111 112 113 114 115 117 118 119 120 122 123 124 125 126 128 129 130 121 127

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OPERATING HOURS 8 HOURS WATTAGE LIGHTS 4 \vdash 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 \vdash 7 7 **TYPE OF LIGHT** T8 36 T8 36 T8 36 T8 36 **T8** 36 T8 36 **T836** T8 36 T8 36 T8 36 T8 36 T8 36 **LIGHT DETAILS ROOM NUMBER 16 ROOM NUMBER 20 ROOM NUMBER 14 ROOM NUMBER 18 ROOM NUMBER 19 ROOM NUMBER 10 ROOM NUMBER 11 ROOM NUMBER 12 ROOM NUMBER 13 ROOM NUMBER 15 ROOM NUMBER 17 ROOM NUMBER 2 ROOM NUMBER 3 ROOM NUMBER 4 ROOM NUMBER 5 ROOM NUMBER 6 ROOM NUMBER 8 ROOM NUMBER 9 ROOM NUMBER 21 ROOM NUMBER 1 ROOM NUMBER 7** LOCATION DT10 GROUND FLOOR GROUND FLOOR **GROUND FLOOR** GROUND FLOOR GROUND FLOOR **GROUND FLOOR** GROUND FLOOR **GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR** GROUND FLOOR **GROUND FLOOR GROUND FLOOR GROUND FLOOR** GROUND FLOOR **GROUND FLOOR GROUND FLOOR** Third floor FLOOR NAME OF THE BLOCK OMEGA BLOCK **OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **DELTA BLOCK** S. NO 133 134 135 136 138 139 140 141 142 143 144 145 146 147 148 149 150 152 132 137 151 131

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			LIGHT DETAILS				
S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	TYPE OF LIGHT	NO OF LIGHTS	WATTAGE	OPERATING HOURS
153	OMEGA BLOCK	GROUND FLOOR	ROOM NUMBER 22	T8 36	2	20	8 HOURS
154	OMEGA BLOCK	GROUND FLOOR	ROOM NUMBER 23	T8 36	1	20	8 HOURS
155	OMEGA BLOCK	GROUND FLOOR	2 COMMON REST ROOM (MEN)	Т8 36	10	20	8 HOURS
156	OMEGA BLOCK	GROUND FLOOR	PASSAGE AREA	T8 36	10	20	8 HOURS
157	OMEGA BLOCK	FRIST FLOOR	ROOM NUMBER 1	T8 36	Н	20	8 HOURS
158	OMEGA BLOCK	FRIST FLOOR	ROOM NUMBER 2	T8 36	2	20	8 HOURS
159	OMEGA BLOCK	FRIST FLOOR	ROOM NUMBER 3	T8 36	2	20	8 HOURS
160	OMEGA BLOCK	FRIST FLOOR	ROOM NUMBER 4	T8 36	2	20	8 HOURS
161	OMEGA BLOCK	FRIST FLOOR	ROOM NUMBER 5	T8 36	2	20	8 HOURS
162	OMEGA BLOCK	FRIST FLOOR	ROOM NUMBER 6	T8 36	2	20	8 HOURS
163	OMEGA BLOCK	FRIST FLOOR	ROOM NUMBER 7	T8 36	2	20	8 HOURS
164	OMEGA BLOCK	FRIST FLOOR	ROOM NUMBER 8	T8 36	2	20	8 HOURS
165	OMEGA BLOCK	FRIST FLOOR	ROOM NUMBER 9	T8 36	2	20	8 HOURS
166	OMEGA BLOCK	FRIST FLOOR	ROOM NUMBER 10	T8 36	2	20	8 HOURS
167	OMEGA BLOCK	FRIST FLOOR	ROOM NUMBER 11	T8 36	2	20	8 HOURS
168	OMEGA BLOCK	FRIST FLOOR	ROOM NUMBER 12	T8 36	2	20	8 HOURS
169	OMEGA BLOCK	FRIST FLOOR	ROOM NUMBER 13	T8 36	Н	20	8 HOURS
170	OMEGA BLOCK	FRIST FLOOR	PASSAGE AREA	T8 36	8	20	8 HOURS
171	OMEGA BLOCK	FRIST FLOOR	1 COMMON REST ROOM (MEN)	Т8 36	2	20	8 HOURS
172	OMEGA BLOCK	FRIST FLOOR	DINING HALL	T8 36	16	20	8 HOURS

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			LIGHT DETAILS				
S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	TYPE OF LIGHT	NO OF LIGHTS	WATTAGE	OPERATING HOURS
173	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 1	T8 36	1	20	8 HOURS
174	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 2	T8 36	2	20	8 HOURS
175	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 3	T8 36	2	20	8 HOURS
176	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 4	T8 36	2	20	8 HOURS
177	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 5	T8 36	2	20	8 HOURS
178	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 6	T8 36	2	20	8 HOURS
179	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 7	T8 36	2	20	8 HOURS
180	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 8	T8 36	2	20	8 HOURS
181	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 9	T8 36	2	20	8 HOURS
182	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 10	T8 36	2	20	8 HOURS
183	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 11	T8 36	2	20	8 HOURS
184	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 12	T8 36	2	20	8 HOURS
185	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 13	T8 36	2	20	8 HOURS
186	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 14	T8 36	2	20	8 HOURS
187	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 15	T8 36	2	20	8 HOURS
188	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 16	T8 36	2	20	8 HOURS
189	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 17	T8 36	2	20	8 HOURS
190	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 18	T8 36	2	20	8 HOURS
191	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 19	T8 36	2	20	8 HOURS
192	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 20	T8 36	2	20	8 HOURS
193	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 21	T8 36	2	20	8 HOURS
194	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 22	T8 36	2	20	8 HOURS

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OPERATING HOURS 8 HOURS **8 HOURS** 8 HOURS 8 HOURS 8 HOURS 8 HOURS 8 HOURS 8 HOURS WATTAGE 20 20 20 20 20 20 20 20 20 20 20 LIGHTS NO OF 10 10 7 7 \vdash 7 7 7 7 7 7 7 7 7 7 7 7 **TYPE OF LIGHT** T8 36 **T836** T8 36 **LIGHT DETAILS ROOM NUMBER 19 ROOM NUMBER 13 ROOM NUMBER 15 ROOM NUMBER 16 ROOM NUMBER 17 ROOM NUMBER 18 ROOM NUMBER 8** ROOM NUMBER 9 **ROOM NUMBER 10 ROOM NUMBER 11 ROOM NUMBER 12 ROOM NUMBER 14 ROOM NUMBER 3 ROOM NUMBER 4 ROOM NUMBER 5 ROOM NUMBER 6 ROOM NUMBER 7 ROOM NUMBER 1 ROOM NUMBER 2** 2 COMMON REST PASSAGE AREA ROOM (MEN) LOCATION SECOND FLOOR SECOND FLOOR Third floor FLOOR NAME OF THE BLOCK **OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK** OMEGA BLOCK S. NO 196 198 199 200 203 204 205 206 208 209 210 211 212 213 214 215 195 197 201 202 207

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OPERATING HOURS 8 HOURS 8 HOURS **8 HOURS** 8 HOURS WATTAGE 20 20 20 20 20 20 20 20 20 20 20 20 20 20 LIGHTS 10 10 7 7 **6 6** 6 o 0 **σ σ σ σ** 6 0 0 0 7 **TYPE OF LIGHT** T8 36 **T836** T8 36 **LIGHT DETAILS ROOM NUMBER 20 ROOM NUMBER 21 ROOM NUMBER 22** 2 COMMON REST PASSAGE AREA ROOM (MEN) LOCATION ZG10 ZG15 ZG16 ZG11 ZG12 ZG13 ZG14 **Z**G3 ZG4 **Z**G2 99Z 2G8 69Z ZG1 **ZG2** ZG7 **GROUND FLOOR GROUND FLOOR** SECOND FLOOR SECOND FLOOR Third floor Third floor Third floor FLOOR NAME OF THE BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK ZEETA S. NO 216 218 219 220 222 223 224 225 226 227 228 229 230 232 233 234 235 236 217 221 231

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OPERATING HOURS 8 HOURS WATTAGE LIGHTS 4 2 2 7 7 7 7 7 7 7 7 7 7 7 7 **TYPE OF LIGHT** T8 36 T8 36 T8 36 T8 36 **T8 36** T8 36 **LIGHT DETAILS WOMENS REST ROOM ROOM NUMBER 16 ROOM NUMBER 10 ROOM NUMBER 13 ROOM NUMBER 14 ROOM NUMBER 15 ROOM NUMBER 12 ROOM NUMBER 17 ROOM NUMBER 1 ROOM NUMBER 2 ROOM NUMBER 3 ROOM NUMBER 4 ROOM NUMBER 5 ROOM NUMBER 6 ROOM NUMBER 7 ROOM NUMBER 8 ROOM NUMBER 9 ROOM NUMBER 11 MEN REST ROOM** PASSAGE AREA OCATION. ZG18 ZG17 **GROUND FLOOR** GROUND FLOOR **GROUND FLOOR** GROUND FLOOR GROUND FLOOR GROUND FLOOR **GROUND FLOOR** GROUND FLOOR GROUND FLOOR **GROUND FLOOR GROUND FLOOR** GROUND FLOOR **GROUND FLOOR GROUND FLOOR** FLOOR NAME OF THE BLOCK Sigma BLOCK ZEETA ZEETA ZEETA ZEETA ZEETA S. NO 238 239 240 242 243 244 245 246 247 248 249 250 253 254 255 256 257 241 251 252 237

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	WATTAGE OPERATING HOURS		
	WATTAGE	20	20
	NO OF LIGHTS	45	27
	TYPE OF LIGHT	18 36	Т8 36
LIGHT DETAILS	LOCATION	DINING AREA AND LIBRARY	DINING AREA
	FLOOR	Ground floor	FRIST FLOOR
	NAME OF THE BLOCK	THETA BLOCK	THETA BLOCK
	S. NO	276	777

21.0 CONVENTIONAL FAN DETSILS

The conventional fan details area as follows.

			CEILING FAN DETAILS			
S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	NO OF FANS	WATTAGE	WATTAGE OPERATING HOURS
1	BETA BKLOCK	GROUND FLOOR	BG1	7	80	8 HOURS
7	BETA BKLOCK	GROUND FLOOR	BG2	4	80	8 HOURS
m	BETA BKLOCK	GROUND FLOOR	BG3	∞	80	8 HOURS
4	BETA BKLOCK	GROUND FLOOR	BG4	က	80	8 HOURS
ī.	BETA BKLOCK	GROUND FLOOR	BG5	2	80	8 HOURS
9	BETA BKLOCK	GROUND FLOOR	BG6	9	80	8 HOURS
7	BETA BKLOCK	GROUND FLOOR	BG8	П	80	8 HOURS
œ	BETA BKLOCK	GROUND FLOOR	BG9	П	80	8 HOURS
6	BETA BKLOCK	GROUND FLOOR	BG10	2	80	8 HOURS
10	BETA BKLOCK	GROUND FLOOR	BG11	1	80	8 HOURS
11	BETA BKLOCK	GROUND FLOOR	BG12	9	80	8 HOURS
12	BETA BKLOCK	GROUND FLOOR	BG13	4	80	8 HOURS
NIN ENERGY	NIN ENERGY INDIA PRIVATE LIMITED REPORT NO 1530	ORT NO 1530	Page	Page 40 of 62		

OPERATING HOURS 8 HOURS 8 HOURS 8 HOURS 8 HOURS 8 HOURS 8 HOURS **8 HOURS** 8 HOURS 8 HOURS 8 HOURS 8 HOURS **8 HOURS** 8 HOURS WATTAGE 80 **NO OF FANS** 9 7 7 2 2 9 9 7 7 9 9 9 4 4 7 7 \vdash **CEILING FAN DETAILS** LOCATION BG15 BG16 BF10 **BF13 BF14 BF18 BF19 BF20** BF1 BF2 BF5 BF6 BF9 **BF11 BF12 BF17 BS5** BS1 **BS3 BS2 GROUND FLOOR GROUND FLOOR** SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR FRIST FLOOR FLOOR NAME OF THE BLOCK **BETA BKLOCK BETA BKLOCK** BETA BKLOCK **BETA BKLOCK BETA BKLOCK BETA BKLOCK BETA BKLOCK BETA BKLOCK** BETA BKLOCK S. NO 29 13 14 15 16 18 19 20 21 22 23 24 25 **5**6 28 30 31 33 17 27 32 34

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OPERATING HOURS 8 HOURS WATTAGE 8 8 8 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 **NO OF FANS** 9 4 9 2 9 9 4 9 ∞ 9 9 7 6 4 $^{\circ}$ m **CEILING FAN DETAILS** LOCATION **BS16 BS10** BS13 **BS14 BS18** BT10 **BS8 BS9** BS11 **BS12 BS17 BT2** BT3 BT5 **BT9** BT11 **BT12** BT1 SECOND FLOOR Third floor NAME OF THE BLOCK **BETA BKLOCK BETA BKLOCK** BETA BKLOCK BETA BKLOCK **BETA BKLOCK BETA BKLOCK** S. NO 36 38 39 40 41 42 43 44 45 46 47 48 49 20 51 25 53 54 55 26 37 57

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OPERATING HOURS 8 HOURS WATTAGE 8 8 8 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 **NO OF FANS** 13 10 14 14 10 2 \vdash / ∞ 9 4 7 ∞ 9 $^{\circ}$ 9 9 9 9 6 9 **CEILING FAN DETAILS** LOCATION **DG16** DG17 DG18 **DS10** DF1 DF2 DF3 DF4 DF5 DF6 DF7 DF8 DF9 DS2 DS3 DS4 DS5 DS6 DS8 DS9 DS1 DS7 SECOND FLOOR FRIST FLOOR FRIST FLOOR FRIST FLOOR FRIST FLOOR **Ground floor Ground floor** FRIST FLOOR FRIST FLOOR FRIST FLOOR FRIST FLOOR FRIST FLOOR **Ground floor** Third floor NAME OF THE BLOCK **DELTA BLOCK DELTA BLOCK** DELTA BLOCK **DELTA BLOCK DELTA BLOCK DELTA BLOCK DELTA BLOCK DELTA BLOCK DELTA BLOCK DELTA BLOCK** S. NO 100 102 101 103 104 86 66 82 83 84 85 86 88 89 8 91 95 96 97 87

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OPERATING HOURS 8 HOURS WATTAGE 80 80 80 80 80 80 80 80 80 80 80 80 80 80 **NO OF FANS** 18 39 17 $^{\circ}$ $^{\circ}$ $^{\circ}$ 3 $^{\circ}$ m $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ **DINING AREA AND LIBRARY ROOM NUMBER 10 ROOM NUMBER 11 ROOM NUMBER 12 ROOM NUMBER 13 ROOM NUMBER 14 ROOM NUMBER 15 ROOM NUMBER 16 ROOM NUMBER 17 ROOM NUMBER 18 ROOM NUMBER 19 ROOM NUMBER 20 ROOM NUMBER 21 ROOM NUMBER 22 ROOM NUMBER 23 ROOM NUMBER 24** STAFF ROOMS STAFF ROOMS **DINING AREA CEILING FAN DETAILS** LOCATION **GROUND FLOOR GROUND FLOOR** GROUND FLOOR **GROUND FLOOR** FRIST FLOOR FRIST FLOOR **Ground floor** NAME OF THE BLOCK Sigma BLOCK Sigma BLOCK **ALPHA BLOCK ALPHA BLOCK** THETA BLOCK THETA BLOCK Sigma BLOCK S. NO 220 224 225 226 228 229 230 233 234 235 236 238 221 222 223 227 231 232 237

22.0 AIR CONDITIONER DETAILS

The air conditioner details area are follows.

			AIR CONDITIONER DETAILS	NER DET	SIIV		
S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	MAKE	MODEL (Split / Window)	NO OF AC'S	OPERATING HOURS
1	BETA BLOCK	GROUND FLOOR	SEVER ROOM	HITACHI	SPILT	1	8 HOURS
2	BETA BLOCK	FRIST FLOOR	PLACEMENT OFFICE	HITACHI	SPILT	1	8 HOURS
က	BETA BLOCK	FRIST FLOOR	MEETING ROOM	CARRIER	DUCTED A/C (5 TON)	1	8 HOURS
4	BETA BLOCK	FRIST FLOOR	MEETING ROOM	CARRIER	DUCTED A/C (8 TON)	1	8 HOURS
2	DELTA BLOCK	GROUND FLOOR	PRINCIPAL ROOM	HITACHI	SPILT	1	8HOURS
9	DELTA BLOCK	GROUND FLOOR	COMPUTER LAB	HITACHI	SPILT	1	8HOURS
7	DELTA BLOCK	GROUND FLOOR	COMPUTER LAB	HITACHI	SPILT	1	8HOURS
&	DELTA BLOCK	THIRD FLOOR	MEETING ROOM	CARRIER	DUCTED A/C (5 TON)	1	8HOURS
6	ZEETA BLOCK	GROUND FLOOR	LAB	HITACHI	SPILT	1	8HOURS
10	ALPHA BLOCK	GROUND FLOOR	PRINCIPAL ROOM	HITACHI	SPILT	1	8HOURS
11	ALPHA BLOCK	GROUND FLOOR	STAFF ROOM	HITACHI	SPILT	1	8HOURS
12	ALPHA BLOCK	GROUND FLOOR	STAFF ROOM	HITACHI	SPILT	1	8HOURS
13	ALPHA BLOCK	FRIST FLOOR	SEVER ROOM	HITACHI	SPILT	1	8HOURS
14	ALPHA BLOCK	FRIST FLOOR	STAFF ROOM	HITACHI	SPILT	1	8HOURS
15	ALPHA BLOCK	FRIST FLOOR	STAFF ROOM	HITACHI	SPILT	1	8HOURS
16	ALPHA BLOCK	FRIST FLOOR	SOFTWARE	97	SPILT	1	8HOURS
17	ALPHA BLOCK	FRIST FLOOR	SOFTWARE	WESTER	SPILT	1	8HOURS
18	ALPHA BLOCK	FRIST FLOOR	SOFTWARE	WESTER	SPILT	1	8HOURS
19	ALPHA BLOCK	FRIST FLOOR	SOFTWARE	HITACHI	SPILT	1	8HOURS
70	ALPHA BLOCK	FRIST FLOOR	SOFTWARE	general	SPILT	1	8HOURS

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			AIR CONDITIONER DETAILS	NER DET	AILS		
S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	MAKE	MODEL (Split / Window)	NO OF AC'S	OPERATING HOURS
21	ALPHA BLOCK	FRIST FLOOR	STAFF ROOM	HITACHI	SPILT	1	8HOURS
22	ALPHA BLOCK	SECOND FLOOR	CHIRMAN SIR ROOM	CARRIER	SPILT	1	8HOURS
23	ALPHA BLOCK	SECOND FLOOR	CHIRMAN SIR ROOM	CARRIER	SPILT	1	8HOURS
24	ALPHA BLOCK	SECOND FLOOR	COO SIR ROOM	CARRIER	SPILT	1	8HOURS
25	ALPHA BLOCK	SECOND FLOOR	DINING HALL	CARRIER	SPILT	1	8HOURS
56	ALPHA BLOCK	SECOND FLOOR	GUEST ROOM	CARRIER	SPILT	1	8HOURS

23.0 WALL MOUNTED FAN DETAILS

The wall mounted fan details are as follows.

		WALL M	OUNTED FAN	DETAILS		
S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	NO OF FANS	WATTAGE	OPERATING HOURS
1	ALPHA	GROUND FLOOR	STAFF ROOM 1	1	120	8 HOURS
2	ALPHA	GROUND FLOOR	STAFF ROOM 2	1	120	8 HOURS
3	ALPHA	GROUND FLOOR	STAFF ROOM 3	1	120	8 HOURS
4	ALPHA	GROUND FLOOR	STAFF ROOM 4	1	120	8 HOURS
5	ALPHA	GROUND FLOOR	STAFF ROOM 5	1	120	8 HOURS
6	ALPHA	FRIST FLOOR	SEVER ROOM	1	120	8 HOURS
7	ALPHA	FRIST FLOOR	SOFTWARE ROOM	8	120	8 HOURS
8	ALPHA	SECOND FLOOR	LAB	4	120	8 HOURS
9	ZEETA BLOCK	GROUND FLOOR	STAFF ROOM 1	1	120	8 HOURS
10	ZEETA BLOCK	GROUND FLOOR	STAFF ROOM 2	1	120	8 HOURS

24.0 EXECUTIVE SUMMARY

S. No	Energy Efficiency Measures	Estimate annual Energy Savings, kWh/Annum	Estimated Investment, INR	Monetary Savings, INR	Simple payback Period, Months
1	Replace existing T8 36 Tube light 36W to 18W LED Light	23,508	2,61,200	1,49,276	21
2	Replace existing 1018 Nos of 80W Ceiling fan to 30W Energy efficient BLDC Fan	101800	3563000	6,46,430	66
3	Replace existing 20 Nos of 120W Wall mounted fan to 30W Energy efficient BLDC Fan	3,600	70,000	22,860	37
	Total	1,28,908	38,94,200	8,18,566	41

Annual Electrical Energy consumption, kWh/Annum	3,82,515
Annual Electrical Energy Savings, kWh/Annum	128908
Electrical Energy Savings, %	33.7

25.0 ENERGY CONSERVATIVE MEASURES

25.1 Replace existing Conventional fan to BLDC Fan

Observation:

During audit it was observed that conventional ceiling fans were used for ventilation purposes.

Recommendation:

It is recommended to replace those conventional ceiling fans with Energy efficient BLDC fans to observe the following energy savings.

Estimated Savings:

Replace existing Conventional fan to	BLDC Fan	
Description	Units	Values
Quantity of existing Conventional fan	Nos	1,018
Wattage of Conventional fan	W	80
Present operating hours	Hours/Annum	2,000
Average unit cost	INR/kWh	6.35
Energy Consumption by existing Conventional fan	kWh/Annum	1,62,880
Wattage of BLDC Fan	W	30
Energy Consumption by BLDC Fan	kWh/Annum	61,080
Cost of one BLDC Fan	INR	3,500
Energy savings	kWh/Annum	1,01,800
Cost Savings	INR/Annum	6,46,430
Investment	INR	35,63,000
Payback Period	Months	66

25.2 Replace existing Wall mounted fan to BLDC Fan

Observation:

During audit it was observed that conventional wall mounted fans were used for ventilation purposes.

Recommendation:

It is recommended to replace the conventional fan to BLDC fan to reduce energy consumption.

Estimated Savings:

Replace existing Wall mounted fan	to BLDC Fan	
Description	Units	Values
Quantity of existing Wall mounted fan	Nos	20
Wattage of Wall Mounted fan	W	120
Present operating hours	Hours/Annum	2,000
Average unit cost	INR/kWh	6.35
Energy Consumption by existing Wall mounted fan	kWh/Annum	4,800
Wattage of BLDC Fan	W	30
Energy Consumption by BLDC Fan	kWh/Annum	1,200
Cost of one BLDC Fan	INR	3,500
Energy savings	kWh/Annum	3,600
Cost Savings	INR/Annum	22,860
Investment	INR	70,000
Payback Period	Months	37

25.3 Replace Existing CFL light to LED light.

Observation:

During audit it was observed that few T8 36 Tube light was used for illumination purpose. T8 36 Tube light consumes high power than LED Lights.

Recommendation:

It is recommended to replace those T8 36 Tube lights with LED lights for better lumens and to lower the power consumption. The lumens of T8 36 Tube light are 63 per watt whereas the lumens of LED light are 120 per watt.

Estimated Savings:

Replace existing T8 36 Tube light to LED Light		
Description	Units	Values
Quantity of existing T8 36 Tube light	Nos	653
Wattage of T8 36 Tube light	W	36
Present operating hours	Hours/Annum	2,000
Average unit cost	INR/kWh	6.35
Energy Consumption by existing T8 36 Tube light Lights	kWh/Annum	47,016
Wattage of LED	W	18
Energy Consumption by LED	kWh/Annum	23,508
Cost of one LED	INR	400
Energy savings	kWh/Annum	23,508
Cost Savings	INR/Annum	1,49,276
Investment	INR	2,61,200
Payback Period	Months	21

26.0 ACCREDITED ENERGY AUDITOR CERTIFICATES



BUREAU OF ENERGY EFFICIENCY

Examination Registration No. EA-3201

Accreditation Registration No. AEA-0023



Certificate of Accreditation

The certificate is subject to the provisions of the Bureau of Energy Efficiency (Qualifications for Accredited Energy Auditors and Maintenance of their List) Regulations, 2010.

This certificate shall be valid until it is cancelled under regulation 9 of the Bureau of Energy Efficiency (Qualifications for Accredited Energy Auditors and Maintenance of their List) Regulations, 2010

On cancellation, the certificate of accreditation shall be surrendered to the Bureau within fifteen days from the date of receipt of order of cancellation.

Your name has been entered at AEA No...0023.. in the register of list of accredited energy auditors. Your name shall be liable to be struck out on the grounds specified in regulation 8 of the Bureau of Energy Efficiency (Qualifications for Accredited Energy Auditors and Maintenance of their List) Regulations, 2010.

Given under the seal of the Bureau of Energy Efficiency, Ministry of Power, this 26th day of May 2014.

Secretary, Bureau of Energy Efficiency

New Delhi

Sem -



SWISO

In association with

THIS IS TO CERTIFY THAT

B. Senthil Kumar

has successfully completed a course approved by the Institute of Environmental Management & Assessment in

ADVANCED EMS AUDITOR (ISO 14001:2004)

(achieving an overall mark of 75%)

13th to 17th October 2008

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Googe Hill

Signed for iqms

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Signed for Swiso India Private Limited

IQ - EMS42357

CERTIFICATE NUMBER
iqms Course No. IQM/EMS4/07308/UK approved by JEMA

NIN ENERGY INDIA PRIVATE LIMITED REPORT NO 1530







F.No.09/06/07/IMPL/ECBC/5977-6028

August 21, 2019

Shri Praveen Kumar Yadav Environmental Design Solution Pvt Ltd A-4/3, Basement, Vasant Vihar, New Delhi - 110057

Subject: Empanelment of ECBC Expert Professional

Dear Shri Praveen,

This has reference to your application for empanelment of ECBC Expert Professional for implementing the Energy Conservation Building Code (ECBC). We are pleased to inform that you have been shortlisted to act as the ECBC Expert professional for helping in building technical capacity, compliance with code and effective implementation of it. The validity of the empanelment is for two years or till the creation of a pool of Certified Energy Auditors (Buildings), whichever is earlier. A brief on roles and responsibilities of professionals will be as per the prevailing ECBC Rules, 2018, is enclosed herewith.

It may be further noted that "the professional working with ECBC Cell in States/UTs shall not work on the projects for the same State/UT during their tenure as a part of ECBC cells and after one year from the last date of their incumbent in the ECBC cell. Such professionals may provide technical assistance in other State/UT for other projects."

With best regards.

Yours sincerely,

(Saurabh Diddi) Director

Encl: As above



Certificate of Compliance

This is to certify that

NIN Energy India Private Limited

JUSA Complex, New No 47, Old No 21/2, Ponniamman Koil Street, Kottur, Chennai - 600085 (Tamil Nadu), India.

has been assessed by RSI and found to comply with the requirements of

ISO/IEC 17020:2012

Operation of various types of bodies performing inspection - Requirements

for the following activities:

Mandatory Energy Audit, Environment Audit, Green Audit, PAT Measurement and Verification (M&V),
Power Quality Audit, Infrared Thermography, Electrical Safety Audit, Energy Management Training,
Energy Management System, Measurement & Verification, Green Building Services,
Renewable Energy Services, Carbon Foot Printing and Water Audit

Certificaat Nummer / Certificate No.: IE-BV-2207-5410

Datum Van Publicatie / Date of Issue: 27/07/2022 Vervaldatum / Date of Expiry: 26/07/2025 Ist Annual surveillance audit due on: 26/06/2023

IInd Annual surveillance audit due on: 26/06/2024

Royal Stancert B.V.
Feitellijke Beoordelingen - Wereldwijde Beoordelingen
Certificaat Nummer / Certificate No.: Q-XX-XXXXX-XXXXXX

Regd. Office - Joop Geesinkweg 701, 1114 AB Amsterdam. The Netherlands. (KvK-Nummer 71431802 / RSIN 858713159 - Rechtsvorm - Besloten Vennootschap).

This certificate remains the property of Royal Stancert B.V. and must be returned whenever demanded. The validity of this certificate can be verified at http://www.royalstancert.org. Royal Stancert B.V. is an independent system, product and personal assessment body accredited by Global Euro Accreditation Centre, Georgia. (GCIN - 654). Email: info@royalstancert.org Doule.

Director (Certification)



PAC-GEAC-1506-299



Approved by AICTE, Affiliated to Anna University Accredited by NAAC | Recognized by UGC with 2(F)

Academic Year 2019-2020



REPORT ON ENERGY, ENVIRONMENT AND GREEN AUDIT



PERI INSTITUTE OF TECHNOLOGY

PERI KNOWLEDGE PARK, MANNIVAKKAM, WEST

TAMBARAM, CHENNAI- 600 048.

AUDIT CONDUCTED AND REPORT PREPARED BY



NIN ENERGY INDIA PRIVATE LIMITED
JUSA COMPLEX, NEW NO 47,OLD NO 21/2
PONNIAMMAN KOIL STREET, KOTTUR,
CHENNAI-600085
TAMILNADU, INDIA

JANUARY 2020

Dr. R. PALSON KENNEDY, M.E., Ph. N.
PRINCIPAL
PERLINSTITUTE OF

wannivakkam, Chennai

ACKNOWLEDGEMENT

We thank management of PERI INSTITUTE OF TECHNOLOGY for awarding the Energy, Environment and Green Audit study at their facility at PERI Knowledge Park, Mannivakkam, West Tambaram, Chennai – 600 048 to NIN Energy India Private Limited. This report is the result of Energy Audit conducted at PERI INSTITUTE OF TECHNOLOGY January 2020.

We wish to thank the management of PERI INSTITUTE OF TECHNOLOGY for the support during the audit and for successful completion of the audit.

For NIN ENERGY INDIA PRIVATE LIMITED

(B. SENTHILKUMAR)

ACCREDITED ENERGY AUDITOR (AEA 023)

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ABBREVIATIONS

EE	Energy Efficiency
Dept	Department
EER	Energy Efficiency Ratio
INR	Indian Rupees
KLD	Kilo Litre per day
kWh	Kilo Watt hour
LED	Light Emitting Diode
LPG	Liquified petroleum gas
tCO2	Tonne of Co2

1.0 INTRODUCTION ABOUT GREEN AUDIT

Green Audit is the process of assessing the environmental impact of an organization, process, project, product, etc.

Green Audit is assigned to the Criteria 7 of NAAC, National Assessment and Accreditation Council which is a self-governing organization of India that declares the institutions as Grade A, Grade B or Grade C according to the scores assigned at the time of accreditation.

2.0 OBJECTIVES

In recent time, the Green Audit of an institution has been becoming a paramount important for self-assessment of the institution which reflects the role of the institution in mitigating the present environmental problems.

The college has been putting efforts to keep our environment clean since its inception. Therefore, the purpose of the present green audit is to identify, quantify, describe, and prioritize framework of Environment Sustainability in compliance with the applicable regulations, policies and standards.

The main objectives of carrying out Green Audit are:

- To map the Geographical Location of the college
- To document the floral and faunal diversity of the college
- To record the meteorological parameter of college
- To document the ambient environmental condition of weather, air, water, and noise of the college
- To document the waste disposal system
- To estimate the Energy requirements of the college
- To report the expenditure on green initiatives during the last five years

3.0 ABOUT THE COLLEGE / UNIVERSITY

PERI Institute of Technology (PERI IT) was established in 2010 by the PERI Educational and Charitable Trust with the objective of providing quality technical education. The Institute is built at Mannivakkam, Chennai in a sprawling area of 15 acres replete with A/C classrooms, well equipped labs, A/C transport, cafeteria, and a vast library.

PERI IT offers both B.E. and M.E. courses and is recognized as an institution offering technical education by AICTE, New Delhi. It is affiliated to Anna University of Technology, Chennai.

GENESIS

The PERI Educational and Charitable Trust was founded in 2007. The vision of the trust is to provide a world class nodal centre of education where academics, communication, comprehension, visualization, practical application, and leadership skills are imparted through encouraging research, training, and development in technical and non-technical areas.

As part of its vision, the trust established PERI Institute of Technology in 2010 with B.E. courses in Mechanical, Civil, Computers and EEE. In 2011, B.E. ECE was introduced. M.E. Applied Electronics and M.E. Computer Science were added in 2012. M.E. Power Electronics & Drives and M.E. Communication Systems were introduced in 2014.

PERI IT is the brainchild of Mr. Saravanan Periasamy, the founding President & CEO of PERI Software Solutions Inc., a leading multinational IT Consulting and Services Company based in USA and the Chairman of the PERI Educational and Charitable Trust. He is the source of inspiration and the pathfinder for this institution.

ADMINISTRATIVE

PERI IT is administered by a governing council which comprises of representatives of the PERI Educational & Charitable Trust, representatives of the State Government, the Anna University of Technology, Chennai, the All-India Council of Technical Education, New Delhi and eminent scholars and industrialists. The Governing Council is responsible for planning and monitoring all academic and administrative activities of PERI IT. The day-to-day management is conducted by an academic and administrative set up helmed by Mr. Saravanan Periasamy.

4.0 ABOUT NIN ENERGY INDIA PRIVATE LIMITED

NIN Energy India Private Limited is providing Energy Related services like Energy Audit, Power Quality Audit, Infrared Thermography, Thermal Audit, PAT Monitoring and Verification Audit, PAT Consultancy, Green Building Commissioning, Electrical Safety Audit, Internet of Things, Carbon Foot Printing, etc. We have experienced team and helping the customers to manage and reduce their energy consumption.

We are providing complete Energy Services under one roof at a competitive price. Our team members are having more than 10 years of experience in Energy, Renewable Energy and Environmental Engineering with good Academic background.

Our Team Strength

- Accredited Energy Auditor by Bureau of Energy Efficiency, Government of India
- Certified Energy Auditors by Bureau of Energy Efficiency, Ministry of power
- Certified Measurement and Verification Professionals (CMVP) by EVO
- Certified Level II Thermographer
- Enlisted with Tamil Nādu Energy Development Agency (TEDA) as a system Integrator for Solar PV systems.
- Lead Auditors for ISO 50001 (Energy Management System)
- Lead Auditors for ISO 14064 (Green House Gas inventory and verification)
- Lead Auditors for ISO14000 (Environmental Management System)

4.1 AUDIT TEAM

The NIN Energy India private Limited team did the green audit assessment. Team details are as follows.

Name	Designation
Mr. B Senthil Kumar	Accredited Energy Auditor
Mr. T Karthikeyan	Certified Energy Auditor
Mr. S Senthamil Selvan	Sr. Engineer
Mr. S Harishragavendhar	Sr. Engineer

4.2 INSTRUMENTS USED FOR THE AUDIT

The NIN Energy India private Limited team did the green audit assessment. Instruments used for audit are as follows.

S. No	Name of the instrument	
1	Air quality meter	
2	Noise meter	
3	Lux meter	
4	Thermal Imager	
5	Clamp meter	

5.0 LOCATION OF THE INSTITUTION

Latitude

12.8859° N

Longitude

80.0608° E

6.0 GEOGRAPHICAL LOCATION WITH CAMPUS MAP IN SCALE

Land use data

CATEGORIES OF LAND USE	INDEX
Alpha Block	6117 Sq. ft
Zeta Block	23319 Sq. ft
Omega Block	12912 Sq. ft
Sigma Block	12912 Sq. ft
Beta Block	14463 Sq. ft
Delta Block	12143 Sq. ft
Theta Block	5159 Sq. ft
Plantation Area	206183 Sq. ft
Total Area	272.49 m ²

7.0 ENVIRONMENTAL AUDIT

Carbon footprint is the total sum of greenhouse gases (GHG) emission caused by an organization, event, product, or person. As we are aware, the increasing concentration of GHGs in the atmosphere can accelerate climate change and global warming, it is very necessary to measure these emissions from our day-to-day activities. The first step towards managing GHG emissions is to measure them. There are some standards and guidelines to measure GHG emissions like GHG protocol, ISO 14064, the more comprehensive one Life Cycle Assessment (LCA), and market-based mechanisms. Out of them, ISO 14064 is an offset protocol and independent, voluntary GHG project accounting standard helps to quantify GHG emission of the organization, event, product, or person.

Our day-to-day activities are dependent on electricity which is mostly coming from coal-based power plants, Diesel and Petrol for our vehicles and LPG for cooking in our kitchen. All the energy we use is derived from these fossil fuels which are GHG intensive. The following Petrol, Diesel, and LPG.

Floristic status of the institution:

The Current situation of planted trees are as follows:

Type of Trees	Total no of Trees	
No of matured trees (Age more than 10 years)	119	
No of Semi matured trees (Age below 10 years)	1257	
No of plants/herbs/Shrubs	354	
No of medicinal plants	2	
Any other plants details if any	5	
Total	1737	

Carbon absorption by flora in the Institution

Carbon absorption capacity of one matured tree = 6.8 kg of CO2. Carbon absorption capacity of one full grown tree = 3.4 kg of CO2. In bushes it absorbs an average of 200 g of CO2. The carbon absorption capacity of a 10-sq.ft. area of lawn is 1 g CO2.

- 1. Therefore, the carbon absorption capacity of 119 matured trees in the campus of the Institution (119 \times 6.8 kg CO2/Annum) = 809.2 kg of CO2/Annum.
- 2. The carbon absorption capacity of 1257 semi-grown trees in campus of 1257 \times 3.4 kg CO2/Annum) = 4274 kg of CO2/Annum.

3. There are 354 bushes of various species being raised in the gardens of the Institution, total carbon absorption was calculated to be $354 \times 200 \text{ g CO2/Annum}$) = 71 kg of CO2/Annum The grand total of carbon absorption by the flora in the campus is 5154 kg per year.

CO2 REDUCTION MEASURES:

Energy Saving measures	CO2 reduction, Tons/Annum
Replace existing Conventional fan to BLDC Fan	86.53
Replace existing Wall mounted fan to BLDC Fan	3.06
Replace existing T8 36 to LED Light	14.44
Total	104.03

Net Carbon emission of the campus

Description	Unit	Values
Carbon emitted due to the energy consumption in the campus	tCO2 /year	223.92
Carbon absorption by mature trees, semi mature trees, bushes, and lawns	tCO2 /year	-51.54
Net carbon emission of the campus	tCO2 /year	172.38
Carbon reduction opportunities by energy saving projects	tCO2 /year	68.35

8.0 GREEN AUDIT

The list of tree species available in site

S. No	Botanical Name	Common Name	Numbers
1.	Azedaraches indica	Neem Tree	19
2.	Albizia lebbeck	Rain tree	11
3.	Tectona grandis Linn.	Teak	17
4.	Grevillea robusta	Silver Oak	18
5.	Acacia arabica	Black catechu	18

9.0 THE INSTITUTIONAL INITIATIVES FOR GREENING THE CAMPUS ARE AS FOLLOWS







10.0 LAND USE ANALYSIS

GENERAL OVERVIEW OF THE CONCEPT OF LANDUSE Land use refers to man's activities and the various uses which are carried on and derived from land. Viewing the earth from space, it is now very crucial in man's activities on natural resource. In situations of rapid changes in land use, observations of the Earth from space give the information of human activities and utilization of the landscape. Remote sensing and GIS techniques are now providing new tools for advanced land use mapping and planning. The collection of remotely sensed data facilitates the synoptic analyses of earth system, functions, patterning, and change in the local, regional as well as at global scales over time. Satellite imagery particularly is a valuable tool for generating land use map.

11.0 LAND USE (BUILT UP AREA) ANALYSIS

S. No	Name of the Building	Year of Construction	No of Rooms	No. Of Labs
1	Alpha Block	2010	11	5
2	Beta Block	2010	36	27
3	Delta Block (Ground Floor+2)	2010	45	3
4	Delta Block (3rd Floor)	2013	45	
5	Theta Block	2010	Canteen and Library	
6	Omega Block (G.F)	2010	87	Dove Hostol
7	Omega Block (first to third)	2014	67	Boys Hostel
8	Sigma Block (GF)	2015	24	Girls Hostel
9	Zeta Block (GF)	2016	11	6
10	Driver & Security Cabin	2011	1	0

12.0 STAFFS AND STUDENTS' DETAILS

The staff and student details are as follows.

No of student's details	931
No of Teaching staff	79
No of Non-Teaching staff	21

13.0 TREE DIVERSITY OF THE COLLEGE/ UNIVERSITY

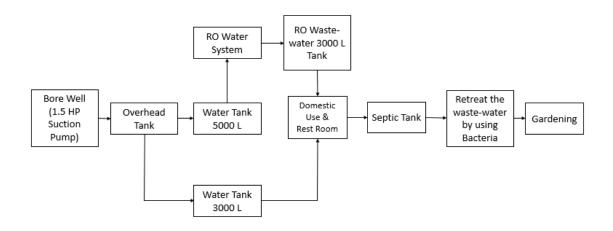
The list of tree species available in site

S. No	Botanical Name	Common Name	Numbers
1.	Azadirachata indica	Neem Tree	19
2.	Albizia lebbeck	Rain tree	11
3.	Tectona grandis Linn.	Teak	17
4.	Grevillea robusta	Silver Oak	18
5.	Acacia arabica	Black catechu	18

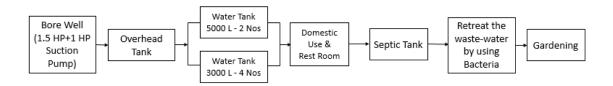
14.0 WATER AUDIT

14.1 DIFFERENT SOURCES OF WATER AND QUANTITY RECEIVED ON MONTHLY BASIS AND AREAS OF UTILIZATION

BETA BLOCK WATER RESOURCE LAYOUT



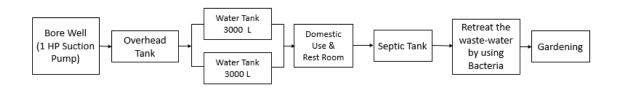
OMEGA BLOCK WATER RESOURCE LAYOUT



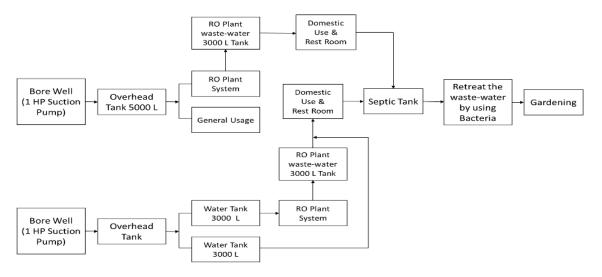
SIGMA BLOCK WATER RESOURCE LAYOUT



ZETA BLOCK WATER RESOURCE LAYOUT



DELTA BLOCK WATER RESOURCE LAYOUT



ALPHA BLOCK WATER RESOURCE LAYOUT



S. No	Parameters	Response
1	Source of water	GROUND SIDE WATER
2	No of Wells	2
3	No of bore wells used	7
4	No of motors used	8
5	Overall average water consumption in the institution per day (in litres)	85,000 LITRES
6	Average drinking water consumption in the hostel per day (in litres)	950 LITRES
7	Average drinking water consumption in the college per day (in litres)	4,700 LITRES
8	Average Water consumption for washroom per day (in litres) 36,000 LITRES	
9	Average Water consumption for gardening per day (in litres)	47,000 LITRES

COOKING

LPG CYLINDER			
S. No	Description	Details	
1	No of students in a hostel	374	
2	Average LPG cylinder usage per day	7 PER WEEK	
3	Average LPG cylinder usage per month	28	
4	Average LPG cylinder usage per Year	336	
5	Cost of one LPG cylinder	1,400 RS (19 KGS)	
6	Food wasted by students/staff per day?	160 KG PER DAY	

REST ROOM (TOILETS)

	HYGIENIC MEASURES				
S. No	Description	Details			
1	No of rest rooms available in the campus	32 NOS			
2	Availability of lighting and ventilation facilities?	YES			
3	Frequency of cleaning the rest rooms per day / week?	PER DAY ONES			

15.0 TYPES OF DEGRADABLE AND NON-DEGRADABLE WASTE

The college's degradable and non-degradable waste given to municipality corporation.

16.0 LUX LEVEL

The lux level survey is carried out in various location of campus and details are as follows.

S. No	Block	Floor	Location	Average Lux level	Recommended lux level as per standard
1	BETA	Ground floor	BG-3_ Manufacturing technology	95	300
2	BETA	Ground floor	Engines lab and Thermal lab	185	300
3	BETA	Ground floor	BG-1_ Electrical machines lab	145	300
4	BETA	Ground floor	Engineering practical lab (Mechanical)	106	300
5	BETA	Ground floor	Gents rest room	78	100
6	BETA	Ground floor	Hydraulics' and FM Lab	137	300
7	BETA	Ground floor	Mechanical HOD room	127	300
8	BETA	Ground floor	CSE Project lab	229	300
9	BETA	First floor	BF-8	301	300
10	BETA	First floor	Project lab	81	300
11	BETA	First floor	BF-4_ Microprocessor lab	161	300
12	BETA	First floor	Conference hall	127	300
13	BETA	Second floor	BS-7_ Tutorial room	106	300
14	BETA	Second floor	Communication lab	472	300
15	BETA	Third floor	IOT Lab	429	300
16	BETA	Third floor	Classroom	324	300
17	DELTA	Ground floor	Classroom	187	300
18	DELTA	Ground floor	Computer science lab	197	300
19	DELTA	Ground floor	Staff room	149	300
20	DELTA	First floor	DF-3	197	300
21	DELTA	First floor	DF-3	210	300
22	DELTA	First floor	DF-1_ Staff room	241	300
23	DELTA	First floor	Chemistry lab	217	300
24	DELTA	First floor	DF-6_ Physics lab	172	300
25	DELTA	Second floor	DS-10_ Classroom	154	300
26	DELTA	Second floor	Lecture hall	264	300
27	DELTA	Third floor	DT-7 classroom	172	300
28	DELTA	Third floor	DT-1 Classroom	167	300
29	THETA	Ground floor	Library	249	300
30	THETA	First floor	Canteen	297	300
31	ZETA	Ground floor	Classroom	241	300

S. No	Block	Floor	Location	Average Lux level	Recommended lux level as per standard
32	ZETA	Ground floor	Classroom	267	300
33	ZETA	Ground floor	Lab-1	574	300
34	ZETA	Ground floor	Lab-2	526	300
35	ZETA	Ground floor	Lab-4	318	300
36	ZETA	Ground floor	Lab-5	264	300
37	OMEGA	Ground floor	Boys hostel_ Rooms	238	200
38	OMEGA	Ground floor	Boys hostel_ Canteen	125	200
39	ALPHA	Ground floor	Waiting hall	61	300
40	ALPHA	Ground floor	Admin office	43	300
41	ALPHA	Ground floor	Lab	164	300
42	ALPHA	Ground floor	Classroom	90	300
43	GAMMA	Ground floor	Ladies hostel_ Rooms	128	200
44	GAMMA	Ground floor	Ladies hostel_ Rooms	264	200

Remarks:

It is observed that over all lux level is good in campus. Only few areas lux level needs to be improved by adding addition light.

17.0 AIR QUALITY OF THE COLLEGE

The Air (Prevention and Control of Pollution) Act 1981 was enacted by the Central Government with the objective of arresting the deterioration of air quality. The Air (Prevention and Control of Pollution) Act 1981 describes the main functions of the Central Pollution Control Board (CPCB) as follows:

- To Advise the Central Government on any matter concerning the improvement of the quality the air and the prevention, control, and abatement of air pollution.
- To plan and cause to be executed a nation-wide programme for the prevention, control and abatement of air pollution.
- To provide technical assistance and guidance to the State Pollution Control Board.
- To carry out and sponsor investigations and research related to prevention, control and abatement of air pollution.
- To collect, compile and publish technical and statistical data related to air pollution; and
- To lay down and annul standards for the quality of air.

Particulate Matter (PM10 & PM2.5)

A mixture of particles with liquid droplets in the air forms particulate matter. PM 10 are particles that have a size of less than or equal to 10 microns whereas PM2.5 are ultra-fine particles having a size of less than or equal to 2.5 microns.

Sources:

Particulate Matter is released from constructions, smoking, cleanings, renovations, demolitions, constructions, natural hazards such as earthquakes, volcanic eruptions, and emissions from industries such as brick kilns, paper & pulp, etc.

Related effects:

These particles, when inhaled, can penetrate deeper into the respiratory system, and cause respiratory ailments such as asthma, coughing, sneezing, irritation in the airways, eyes, nose, throat irritation, etc. Studies have also shown links between PM exposure and diabetes.

The air quality details are as follows.

				Air	Quality lev	rel
S. No	Block	Floor	Location	PM 1.0	PM 2.5	PM 10
1	BETA	Ground floor	BG-3_ Manufacturing technology	43	57	105
2	BETA	Ground floor	Engines lab and Thermal lab	37	63	75
3	BETA	Ground floor	BG-1_ Electrical machines lab	32	89	74
4	BETA	Ground floor	Engineering practical lab (Mechanical)	46	71	74
5	BETA	Ground floor	Gents rest room	44	63	75
6	BETA	Ground floor	Hydraulics' and FM Lab	40	66	74
7	ВЕТА	Ground floor	Mechanical HOD room	44	66	89
8	BETA	Ground floor	CSE Project lab	39	68	85
9	BETA	First floor	BF-8	32	71	82
10	BETA	First floor	Project lab	46	57	85
11	BETA	First floor	BF-4_ Microprocessor lab	34	63	89
12	BETA	First floor	Conference hall	44	70	82
13	BETA	Second floor	BS-7_ Tutorial room	49	87	75
14	BETA	Second floor	Communication lab	45	63	74
15	BETA	Third floor	IOT Lab	41	66	85
16	BETA	Third floor	Classroom	43	66	89
17	DELTA	Ground floor	Classroom	47	68	82
18	DELTA	Ground floor	Computer science lab	32	71	75
19	DELTA	Ground floor	Staff room	44	70	74
20	DELTA	First floor	DF-3	34	87	75
21	DELTA	First floor	DF-3	29	93	74
22	DELTA	First floor	DF-1_ Staff room	36	57	85
23	DELTA	First floor	Chemistry lab	47	61	89
24	DELTA	First floor	DF-6_ Physics lab	43	71	82
25	DELTA	Second floor	DS-10_ Classroom	43	70	75
26	DELTA	Second floor	Lecture hall	35	63	74

				Air	Quality lev	rel .
S. No	Block	Floor	Location	PM 1.0	PM 2.5	PM 10
27	DELTA	Third floor	DT-7 classroom	37	66	85
28	DELTA	Third floor	DT-1 Classroom	40	66	72
29	THETA	Ground floor	Library	33	68	74
30	THETA	First floor	Canteen	35	71	89
31	ZETA	Ground floor	Classroom	36	70	82
32	ZETA	Ground floor	Classroom	31	70	97
33	ZETA	Ground floor	Lab-1	39	87	74
34	ZETA	Ground floor	Lab-2	37	93	75
35	ZETA	Ground floor	Lab-4	38	57	74
36	ZETA	Ground floor	Lab-5	33	63	85
37	OMEGA	Ground floor	Boys hostel_ Rooms	41	66	82
38	OMEGA	Ground floor	Boys hostel_ Canteen	44	66	97
39	ALPHA	Ground floor	Waiting hall	43	68	74
40	ALPHA	Ground floor	Admin office	37	57	75
41	ALPHA	Ground floor	Lab	35	63	74
42	ALPHA	Ground floor	Classroom	41	66	85
43	GAMMA	Ground floor	Ladies hostel_ Rooms	42	66	82
44	GAMMA	Ground floor	Ladies hostel_ Rooms	37	68	85

Remarks:

It is observed that Air quality is found to be satisfactory.

18.0 NOISE LEVEL IN THE SURROUNDING OF COLLEGE

THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000

(The Principal Rules were published in the Gazette of India, vide S.O. 123(E), dated 14.2.2000 and subsequently amended vide S.O. 1046(E), dated 22.11.2000, S.O. 1088(E), dated 11.10.2002, S.O. 1569 (E), dated 19.09.2006 and S.O. 50 (E) dated 11.01.2010 under the Environment (Protection) Act, 1986.)

Ambient Air Quality Standards in respect of Noise

Avec Code	Area Code Category Of Area/Zone		dB(A) Leq*
Area Code	Category Of Area/Zone	Day Time	Night-time
(A)	Industrial area	75	70
(B)	Commercial area	65	55
(C)	Residential area	55	45
(D)	Silence Zone	50	40

Note: -

- 1. Day time shall mean from 6.00 a.m. to 10.00 p.m.
- 2. Night-time shall mean from 10.00 p.m. to 6.00 a.m.
- 3. Silence zone is an area comprising not less than 100 metres around hospitals, educational institutions, courts, religious places, or any other area which is declared as such by the competent authority.
- 4. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.
- 5. * dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
- 6. A "decibel" is a unit in which noise is measured.
- 7. "A", in dB(A) Leq, denotes the frequency weighting in the measurement of
- 8. noise and corresponds to frequency response characteristics of the human ear.
- 9. Leq: It is an energy mean of the noise level over a specified period.

The noise level in the campus details are as follows.

S. No	Block	Floor	Location	Noise level, dB
1	BETA	Ground floor	BG-3_ Manufacturing technology	57
2	BETA	Ground floor	Engines lab and Thermal lab	79
3	BETA	Ground floor	BG-1_ Electrical machines lab	84
4	BETA	Ground floor	Engineering practical lab (Mechanical)	87
5	BETA	Ground floor	Gents rest room	95
6	BETA	Ground floor	Hydraulics' and FM Lab	95
7	BETA	Ground floor	Mechanical HOD room	96
8	BETA	Ground floor	CSE Project lab	84
9	BETA	First floor	BF-8	76
10	BETA	First floor	Project lab	64
11	BETA	First floor	BF-4_ Microprocessor lab	87
12	BETA	First floor	Conference hall	85
13	BETA	Second floor	BS-7_ Tutorial room	118
14	BETA	Second floor	Communication lab	96
15	BETA	Third floor	IOT Lab	95
16	BETA	Third floor	Classroom	74
17	DELTA	Ground floor	Classroom	84
18	DELTA	Ground floor	Computer science lab	95
19	DELTA	Ground floor	Staff room	74
20	DELTA	First floor	DF-3	86
21	DELTA	First floor	DF-3	94
22	DELTA	First floor	DF-1_ Staff room	97
23	DELTA	First floor	Chemistry lab	84
24	DELTA	First floor	DF-6_ Physics lab	85
25	DELTA	Second floor	DS-10_ Classroom	64
26	DELTA	Second floor	Lecture hall	62
27	DELTA	Third floor	DT-7 classroom	98
28	DELTA	Third floor	DT-1 Classroom	92
29	THETA	Ground floor	Library	72
30	THETA	First floor	Canteen	94
31	ZETA	Ground floor	Classroom	81
32	ZETA	Ground floor	Classroom	72
33	ZETA	Ground floor	Lab-1	94
34	ZETA	Ground floor	Lab-2	83
35	ZETA	Ground floor	Lab-4	92
36	ZETA	Ground floor	Lab-5	85

S. No	Block	Floor	Location	Noise level, dB
37	OMEGA	Ground floor	Boys hostel_ Rooms	74
38	OMEGA	Ground floor	Boys hostel_ Canteen	86
39	ALPHA	Ground floor	Waiting hall	94
40	ALPHA	Ground floor	Admin office	82
41	ALPHA	Ground floor	Lab	90
42	ALPHA	Ground floor	Classroom	91
43	GAMMA	Ground floor	Ladies hostel_ Rooms	70
44	GAMMA	Ground floor	Ladies hostel_ Rooms	82

Remarks:

It is observed that few areas noise level is higher than 65 db. It is recommended to reduce the noise level in mentioned location.

19.0 ENERGY AUDIT

The plant receives two LT EB supply from TNEB. The LT Supply details as follows.

Source Of Power Supply	:	TNEB
Electric Power Supply is received from TANGEDCO	:	LT supply
Service number	:	09-571-001-3041
Sanction Load, kW	:	112
Annual Electricity Consumption, kWh	:	212013.0709
Unit charges, Rs/kWh	:	6.35

The one-year Electricity Bills for 2021-22 bill has been analysed and details as follows.

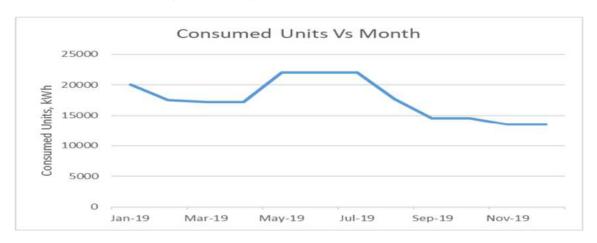
SERVICE NUMBER: 09-571-001-3041				
Month	Consumed Units, kWh	Total bill, INR		
Jan-19	20081	127517		
Feb-19	17543	111401		
Mar-19	17226	109386		
Apr-19	17226	109386		
May-19	22046	139994		
Jun-19	22046	139994		
Jul-19	22046	139994		
Aug-19	17705	112427		
Sep-19	14529	92258		

SERVICE NUMBER: 09-571-001-3041				
Month	Consumed Units, kWh	Total bill, INR		
Oct-19	14529	92258		
Nov-19	13517	85834		
Dec-19	13517	85834		

Remarks:

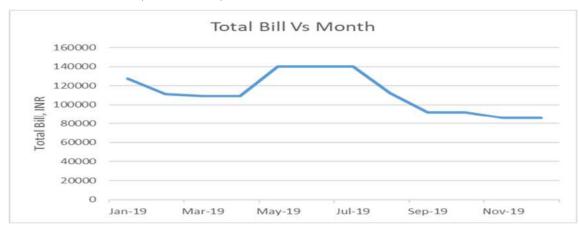
The plant has only few month EB Bills. We taken average with available EB Bills.

The units consumed over the period of one year is shown below.



The maximum unit is consumed in the month of May 2019 and minimum unit is consumed in the month of December 2019.

The bill details over the period of one year is shown below.



The maximum bill is paid in the month of May 2019 and minimum in the month of December 2019.

Source of Electricity - 2

The plant receives two LT EB supply from TNEB. The LT Supply details as follows.

Source Of Power Supply	:	TNEB
Electric Power Supply is received from TANGEDCO	:	LT supply
Service number	:	09-571-001-6732
Sanction Load, kW	:	112
Annual Electricity Consumption, kWh	:	51427.24
Unit charges, Rs/kWh	:	6.35

- The average consumed units, kWh is 51427.
- The average bill payment of month is **163282**.

20.0 LIGHT DETAILS

The light details of the campus are as follows.

BETA BLOCK Ground floor BG1 TYPE OF LIGHT BETA BLOCK Ground floor BG2 T8 36 BETA BLOCK Ground floor BG3 T8 36 BETA BLOCK Ground floor BG4 T8 36 BETA BLOCK Ground floor BG5 T8 36 BETA BLOCK Ground floor BG6 T8 36 BETA BLOCK Ground floor BG6 T8 36 BETA BLOCK Ground floor BG3 T8 36 BETA BLOCK Ground floor BG3 T8 36 BETA BLOCK Ground floor BG1				LIGHT DETAILS				
BETA BLOCK Ground floor BG1 TR 36 BETA BLOCK Ground floor BG2 TR 36 BETA BLOCK Ground floor BG4 TR 36 BETA BLOCK Ground floor BG6 TR 36 BETA BLOCK Ground floor BG6 TR 36 BETA BLOCK Ground floor BG8 TR 36 BETA BLOCK Ground floor BG3 TR 36 BETA BLOCK Ground floor BG10 TR 36 BETA BLOCK Ground floor BG11 TR 36 BETA BLOCK Ground floor BG13 TR 36 BETA BLOCK Ground floor BG14 TR 36 BETA BLOCK Ground floor BG14 TR 36 BETA BLOCK Ground floor BG16 TR 36 BETA BLOCK FRIST FLOOR BF11 <td< th=""><th>S. NO</th><th>NAME OF THE BLOCK</th><th>FLOOR</th><th>LOCATION</th><th>TYPE OF LIGHT</th><th>NO OF LIGHTS</th><th>WATTAGE</th><th>OPERATING HOURS</th></td<>	S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	TYPE OF LIGHT	NO OF LIGHTS	WATTAGE	OPERATING HOURS
BETA BLOCK Ground floor BG2 TR 36 BETA BLOCK Ground floor BG3 TR 36 BETA BLOCK Ground floor BG5 TR 36 BETA BLOCK Ground floor BG6 TR 36 BETA BLOCK Ground floor BG8 TR 36 BETA BLOCK Ground floor BG3 TR 36 BETA BLOCK Ground floor BG3 TR 36 BETA BLOCK Ground floor BG10 TR 36 BETA BLOCK Ground floor BG12 TR 36 BETA BLOCK Ground floor BG13 TR 36 BETA BLOCK Ground floor BG14 TR 36 BETA BLOCK FRIST FLOOR BF11 TR 36 BETA BLOCK FRIST FLOOR BF13 TR 36 BETA BLOCK FRIST FLOOR BF14 T	1	BETA BLOCK	Ground floor	BG1	T8 36	12	20	8 HOURS
BETA BLOCK Ground floor BG3 TR 36 BETA BLOCK Ground floor BG5 TR 36 BETA BLOCK Ground floor BG6 TR 36 BETA BLOCK Ground floor BG6 TR 36 BETA BLOCK Ground floor BG3 TR 36 BETA BLOCK Ground floor BG3 TR 36 BETA BLOCK Ground floor BG10 TR 36 BETA BLOCK Ground floor BG12 TR 36 BETA BLOCK Ground floor BG13 TR 36 BETA BLOCK Ground floor BG14 TR 36 BETA BLOCK Ground floor BG16 TR 36 BETA BLOCK Ground floor BG16 TR 36 BETA BLOCK Ground floor BG16 TR 36 BETA BLOCK FRIST FLOOR BF11 TR 36 BETA BLOCK FRIST FLOOR BF12 TR 36 BETA BLOCK FRIST FLOOR BF14 TR 36	2	BETA BLOCK	Ground floor	BG 2	T8 36	4	20	8 HOURS
BETA BLOCK Ground floor BG4 T8 36 BETA BLOCK Ground floor BG6 T8 36 BETA BLOCK Ground floor BG6 T8 36 BETA BLOCK Ground floor BG8 T8 36 BETA BLOCK Ground floor BG3 T8 36 BETA BLOCK Ground floor BG10 T8 36 BETA BLOCK Ground floor BG11 T8 36 BETA BLOCK Ground floor BG12 T8 36 BETA BLOCK Ground floor BG12 T8 36 BETA BLOCK Ground floor BG14 T8 36 BETA BLOCK Ground floor BG15 T8 36 BETA BLOCK Ground floor BG16 T8 36 BETA BLOCK FRIST FLOOR BF11 T8 36 BETA BLOCK FRIST FLOOR BF13 T8 36 BETA BLOCK FRIST FLOOR BF13 T8 36 BETA BLOCK FRIST FLOOR BF13 T8 36	æ	BETA BLOCK	Ground floor	BG3	T8 36	9	20	8 HOURS
BETA BLOCK Ground floor BG6 TR 36 BETA BLOCK Ground floor BG7 TR 36 BETA BLOCK Ground floor BG3 TR 36 BETA BLOCK Ground floor BG9 TR 36 BETA BLOCK Ground floor BG10 TR 36 BETA BLOCK Ground floor BG11 TR 36 BETA BLOCK Ground floor BG13 TR 36 BETA BLOCK Ground floor BG14 TR 36 BETA BLOCK FRIST FLOOR BF11 TR 36 BETA BLOCK FRIST FLOOR BF14 TR 36 BETA BLOCK FRIST FLOOR BF14 TR 36	4	BETA BLOCK	Ground floor	BG4	T8 36	3	20	8 HOURS
BETA BLOCK Ground floor BGG TR 36 BETA BLOCK Ground floor BG3 TR 36 BETA BLOCK Ground floor BG3 TR 36 BETA BLOCK Ground floor BG10 TR 36 BETA BLOCK Ground floor BG11 TR 36 BETA BLOCK Ground floor BG12 TR 36 BETA BLOCK Ground floor BG14 TR 36 BETA BLOCK Ground floor BG14 TR 36 BETA BLOCK Ground floor BG15 TR 36 BETA BLOCK Ground floor BG15 TR 36 BETA BLOCK Ground floor BG15 TR 36 BETA BLOCK FRIST FLOOR BF11 TR 36 BETA BLOCK FRIST FLOOR BF12 TR 36 BETA BLOCK FRIST FLOOR BF14 TR 36	2	BETA BLOCK	Ground floor	BG5	T8 36	2	20	8 HOURS
BETA BLOCK Ground floor BGS T8 36 BETA BLOCK Ground floor BG8 T8 36 BETA BLOCK Ground floor BG10 T8 36 BETA BLOCK Ground floor BG11 T8 36 BETA BLOCK Ground floor BG12 T8 36 BETA BLOCK Ground floor BG13 T8 36 BETA BLOCK Ground floor BG14 T8 36 BETA BLOCK Ground floor BG14 T8 36 BETA BLOCK Ground floor BG16 T8 36 BETA BLOCK Ground floor BG16 T8 36 BETA BLOCK FRIST FLOOR BF11 T8 36 BETA BLOCK FRIST FLOOR BF12 T8 36 BETA BLOCK FRIST FLOOR BF14 T8 36	9	BETA BLOCK	Ground floor	BG6	T8 36	9	20	8 HOURS
BETA BLOCK Ground floor BG9 TR 36 BETA BLOCK Ground floor BG10 TR 36 BETA BLOCK Ground floor BG11 TR 36 BETA BLOCK Ground floor BG13 TR 36 BETA BLOCK Ground floor BG13 TR 36 BETA BLOCK Ground floor BG14 TR 36 BETA BLOCK Ground floor BG16 TR 36 BETA BLOCK Ground floor BG16 TR 36 BETA BLOCK FRIST FLOOR BF11 TR 36 BETA BLOCK FRIST FLOOR BF12 TR 36 BETA BLOCK FRIST FLOOR BF12 TR 36 BETA BLOCK FRIST FLOOR BF14 TR 36	7	BETA BLOCK	Ground floor	BG7	T8 36	3	20	8 HOURS
BETA BLOCK Ground floor BG9 T8 36 BETA BLOCK Ground floor BG10 T8 36 BETA BLOCK Ground floor BG12 T8 36 BETA BLOCK Ground floor BG13 T8 36 BETA BLOCK Ground floor BG14 T8 36 BETA BLOCK Ground floor BG15 T8 36 BETA BLOCK Ground floor BG16 T8 36 BETA BLOCK Ground floor BG16 T8 36 BETA BLOCK FRIST FLOOR BF11 T8 36 BETA BLOCK FRIST FLOOR BF12 T8 36 BETA BLOCK FRIST FLOOR BF14 T8 36	8	BETA BLOCK	Ground floor	BG8	T8 36	1	20	8 HOURS
BETA BLOCK Ground floor BG11 T8 36 BETA BLOCK Ground floor BG12 T8 36 BETA BLOCK Ground floor BG13 T8 36 BETA BLOCK Ground floor BG14 T8 36 BETA BLOCK Ground floor BG15 T8 36 BETA BLOCK Ground floor BG16 T8 36 BETA BLOCK FRIST FLOOR BF11 T8 36 BETA BLOCK FRIST FLOOR BF12 T8 36 BETA BLOCK FRIST FLOOR BF12 T8 36 BETA BLOCK FRIST FLOOR BF14 T8 36	6	BETA BLOCK	Ground floor	BG9	T8 36	1	20	8 HOURS
BETA BLOCK Ground floor BG12 T8 36 BETA BLOCK Ground floor BG13 T8 36 BETA BLOCK Ground floor BG14 T8 36 BETA BLOCK Ground floor BG16 T8 36 BETA BLOCK Ground floor BG16 T8 36 BETA BLOCK FRIST FLOOR BF11 T8 36 BETA BLOCK FRIST FLOOR BF12 T8 36 BETA BLOCK FRIST FLOOR BF13 T8 36 BETA BLOCK FRIST FLOOR BF13 T8 36 BETA BLOCK FRIST FLOOR BF13 T8 36	10	BETA BLOCK	Ground floor	BG10	T8 36	7	20	8 HOURS
BETA BLOCK Ground floor BG13 T8 36 BETA BLOCK Ground floor BG14 T8 36 BETA BLOCK Ground floor BG15 T8 36 BETA BLOCK Ground floor BG16 T8 36 BETA BLOCK FRIST FLOOR BF11 T8 36 BETA BLOCK FRIST FLOOR BF12 T8 36 BETA BLOCK FRIST FLOOR BF13 T8 36 BETA BLOCK FRIST FLOOR BF13 T8 36 BETA BLOCK FRIST FLOOR BF13 T8 36	11	BETA BLOCK	Ground floor	BG11	T8 36	2	20	8 HOURS
BETA BLOCK Ground floor BG14 T8 36 BETA BLOCK Ground floor BG15 T8 36 BETA BLOCK Ground floor BG16 T8 36 BETA BLOCK FRIST FLOOR BF11 T8 36 BETA BLOCK FRIST FLOOR BF12 T8 36 BETA BLOCK FRIST FLOOR BF12 T8 36 BETA BLOCK FRIST FLOOR BF13 T8 36 BETA BLOCK FRIST FLOOR BF14 T8 36	12	BETA BLOCK	Ground floor	BG12	T8 36	9	20	8 HOURS
BETA BLOCK Ground floor BG14 T8 36 BETA BLOCK Ground floor BG15 T8 36 BETA BLOCK FRIST FLOOR BF11 T8 36 BETA BLOCK FRIST FLOOR BF12 T8 36 BETA BLOCK FRIST FLOOR BF13 T8 36 BETA BLOCK FRIST FLOOR BF13 T8 36 BETA BLOCK FRIST FLOOR BF14 T8 36	13	BETA BLOCK	Ground floor	BG13	T8 36	4	20	8 HOURS
BETA BLOCK Ground floor BG15 T8 36 BETA BLOCK Ground floor B616 T8 36 BETA BLOCK FRIST FLOOR BF11 T8 36 BETA BLOCK FRIST FLOOR BF12 T8 36 BETA BLOCK FRIST FLOOR BF13 T8 36 BETA BLOCK FRIST FLOOR BF14 T8 36	14	BETA BLOCK	Ground floor	BG14	T8 36	1	20	8 HOURS
BETA BLOCK Ground floor BG16 T8 36 BETA BLOCK FRIST FLOOR BF11 T8 36 BETA BLOCK FRIST FLOOR BF12 T8 36 BETA BLOCK FRIST FLOOR BF13 T8 36 BETA BLOCK FRIST FLOOR BF14 T8 36	15	BETA BLOCK	Ground floor	BG15	T8 36	2	20	8 HOURS
BETA BLOCK FRIST FLOOR BF11 T8 36 BETA BLOCK FRIST FLOOR BF12 T8 36 BETA BLOCK FRIST FLOOR BF13 T8 36 BETA BLOCK FRIST FLOOR BF14 T8 36	16	BETA BLOCK	Ground floor	BG16	T8 36	11	20	8 HOURS
BETA BLOCK FRIST FLOOR BF13 T8 36 BETA BLOCK FRIST FLOOR BF13 T8 36 BETA BLOCK FRIST FLOOR BF14 T8 36	17	BETA BLOCK	FRIST FLOOR	BF11	T8 36	9	20	8 HOURS
BETA BLOCK FRIST FLOOR BF14 T8 36 BETA BLOCK FRIST FLOOR BF14 T8 36	18	BETA BLOCK	FRIST FLOOR	BF12	T8 36	8	20	8 HOURS
BETA BLOCK FRIST FLOOR BF14 T8 36	19	BETA BLOCK	FRIST FLOOR	BF13	T8 36	9	20	8 HOURS
DETA DI OCN	20	BETA BLOCK	FRIST FLOOR	BF14	T8 36	2	20	8 HOURS
BEI'A BLOCK	21	BETA BLOCK	FRIST FLOOR	BF15	T8 36	Н	20	8 HOURS
22 BETA BLOCK FRIST FLOOR BF16 T8 36 3	22	BETA BLOCK	FRIST FLOOR	BF16	T8 36	က	20	8 HOURS

			LIGHT DETAILS				
S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	TYPE OF LIGHT	NO OF LIGHTS	WATTAGE	OPERATING HOURS
23	BETA BLOCK	FRIST FLOOR	BF17	T8 36	1	20	8 HOURS
24	BETA BLOCK	FRIST FLOOR	BF18	T8 36	က	20	8 HOURS
25	BETA BLOCK	FRIST FLOOR	BF19	T8 36	က	20	8 HOURS
5 6	BETA BLOCK	FRIST FLOOR	BF20	T8 36	5	20	8 HOURS
27	BETA BLOCK	FRIST FLOOR	BF21	T8 36	2	20	8 HOURS
28	BETA BLOCK	FRIST FLOOR	BF1	T8 36	က	20	8 HOURS
29	BETA BLOCK	FRIST FLOOR	BF2	T8 36	4	20	8 HOURS
30	BETA BLOCK	FRIST FLOOR	BF3	T8 36	4	20	8 HOURS
31	BETA BLOCK	FRIST FLOOR	BF4	T8 36	7	20	8 HOURS
32	BETA BLOCK	FRIST FLOOR	BF5	T8 36	7	20	8 HOURS
33	BETA BLOCK	FRIST FLOOR	BF6	T8 36	1	20	8 HOURS
34	BETA BLOCK	FRIST FLOOR	BF7	PL LIGHT	29	36	8 HOURS
35	BETA BLOCK	FRIST FLOOR	BF8	T8 36	က	20	8 HOURS
36	BETA BLOCK	FRIST FLOOR	BF9	T8 36	1	20	8 HOURS
37	BETA BLOCK	FRIST FLOOR	BF10	T8 36	1	20	8 HOURS
38	BETA BLOCK	SECOND FLOOR	BS1	T8 36	5	20	8 HOURS
39	BETA BLOCK	SECOND FLOOR	BS2	T8 36	4	20	8 HOURS
40	BETA BLOCK	SECOND FLOOR	BS3	FALSE CEILING LIGHT	6	20	8 HOURS
41	BETA BLOCK	SECOND FLOOR	BS4	FALSE CEILING LIGHT	6	20	8 HOURS
42	BETA BLOCK	SECOND FLOOR	BS5	FALSE CEILING LIGHT	6	20	8 HOURS
L		7 7 1 1		000			

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OPERATING HOURS 8 HOURS 8 HOURS WATTAGE LIGHTS 10 9 9 2 9 9 7 4 4 \vdash 2 $^{\circ}$ 4 ⊣ $^{\circ}$ 4 က \vdash **TYPE OF LIGHT** T8 36 T8 36 **T836** T8 36 **LIGHT DETAILS** LOCATION BS14 BS16 BS19 BS10 BS11 BS12 BS13 BS13 BS15 BS17 BS18 BT1 BT2 BT5 BT6 **BS6** BS7 **BS8 BS9** SECOND FLOOR Third floor FLOOR NAME OF THE BLOCK **BETA BLOCK BETA BLOCK** S. NO 45 46 49 50 51 52 53 54 55 26 27 28 59 9 63 43 44 48 61 62 64 47

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OPERATING HOURS 8 HOURS WATTAGE LIGHTS 13 4 2 4 $^{\circ}$ က 4 $^{\circ}$ 3 4 4 က 4 4 4 4 \vdash \vdash **TYPE OF LIGHT** T8 36 **LIGHT DETAILS** LOCATION **BT16** BT10 BT11 BT12 BT13 **BT14 BT15 BT17 BT18 BT19** BT20 BT22 BT23 **BT24** BT21 DG1 DG2 DG3 DG4 **DG**2 BT8 **BT9 Ground floor Ground floor Ground floor Ground floor Ground floor** Third floor FLOOR NAME OF THE BLOCK **DELTA BLOCK DELTA BLOCK DELTA BLOCK DELTA BLOCK DELTA BLOCK BETA BLOCK** S. NO 67 89 69 70 71 72 73 74 75 76 77 78 79 8 81 84 85 65 99 82 83

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OPERATING HOURS 8 HOURS 8 HOURS WATTAGE LIGHTS 8 25 8 8 10 5 6 0 8 2 4 4 4 4 7 7 \vdash ∞ 7 က 4 \vdash **TYPE OF LIGHT** T8 36 T8 36 **T836** T8 36 **LIGHT DETAILS** DG PASSAGE AREA LOCATION DG18 DG10 DG11 DG12 DG13 DG14 DG15 DG16 99**0** DG9 DG17 DG8 DF1 DG7 DF2 DF3 DF4 DF5 DF6 DF7 FRIST FLOOR FRIST FLOOR FRIST FLOOR FRIST FLOOR Ground floor **Ground floor Ground floor** FRIST FLOOR FRIST FLOOR FRIST FLOOR FRIST FLOOR **Ground floor** FLOOR NAME OF THE BLOCK **DELTA BLOCK DELTA BLOCK** S. NO 102 103 104 105 106 107 108 100 101 93 94 95 96 97 98 66 88 89 90 91 92 87

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OPERATING HOURS 8 HOURS WATTAGE LIGHTS 15 2 9 4 9 2 $^{\circ}$ 4 4 2 4 2 9 4 m က 2 4 4 $^{\circ}$ **TYPE OF LIGHT** T8 36 T8 36 **T836** T8 36 **LIGHT DETAILS DF PASSAGE AREA DS PASSAGE AREA** LOCATION DS 10 **DS** 2 **DS3** DS 4 DS 5 **DS** 6 DS 7 **DS8** DS 9 DF9 **DS 1** DT3 DT4 DT5 DT6 DT8 DT1 DT2 DT7 DT9 SECOND FLOOR FRIST FLOOR FRIST FLOOR Third floor FLOOR NAME OF THE BLOCK **DELTA BLOCK DELTA BLOCK** S. NO 116 109 110 111 112 113 114 115 117 118 119 120 122 123 124 125 126 128 129 130 121 127

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OPERATING HOURS 8 HOURS WATTAGE 2 2 2 2 2 2 2 2 3 LIGHTS 4 \vdash 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 \vdash 7 7 **TYPE OF LIGHT** T8 36 T8 36 T8 36 T8 36 **T8** 36 T8 36 **T836** T8 36 T8 36 T8 36 T8 36 T8 36 **LIGHT DETAILS ROOM NUMBER 16 ROOM NUMBER 20 ROOM NUMBER 14 ROOM NUMBER 18 ROOM NUMBER 19 ROOM NUMBER 10 ROOM NUMBER 11 ROOM NUMBER 12 ROOM NUMBER 13 ROOM NUMBER 15 ROOM NUMBER 17 ROOM NUMBER 3 ROOM NUMBER 4 ROOM NUMBER 5 ROOM NUMBER 6 ROOM NUMBER 8 ROOM NUMBER 9 ROOM NUMBER 21 ROOM NUMBER 1 ROOM NUMBER 2 ROOM NUMBER 7** LOCATION DT10 GROUND FLOOR GROUND FLOOR **GROUND FLOOR** GROUND FLOOR GROUND FLOOR **GROUND FLOOR** GROUND FLOOR **GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR** GROUND FLOOR **GROUND FLOOR GROUND FLOOR GROUND FLOOR** GROUND FLOOR **GROUND FLOOR GROUND FLOOR** Third floor FLOOR NAME OF THE BLOCK OMEGA BLOCK **OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **DELTA BLOCK** S. NO 133 134 135 136 138 139 140 141 142 143 144 145 146 147 148 149 150 152 132 137 151 131

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ENERGY, ENVIRONMENT AND GREEN AUDIT REPORT FOR PERI INSTITUTE OF TECHNOLOGY

	OPERATING HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS
	WATTAGE	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	NO OF LIGHTS	2	П	10	10	1	2	2	2	2	2	2	2	2	2	2	2	П	∞	S	16
	TYPE OF LIGHT	T8 36	T8 36	T8 36	T8 36	T8 36	T8 36	T8 36	T8 36	T8 36	T8 36	T8 36	T8 36	T8 36	T8 36	T8 36	T8 36	T8 36	T8 36	T8 36	Т8 36
LIGHT DETAILS	LOCATION	ROOM NUMBER 22	ROOM NUMBER 23	2 COMMON REST ROOM (MEN)	PASSAGE AREA	ROOM NUMBER 1	ROOM NUMBER 2	ROOM NUMBER 3	ROOM NUMBER 4	ROOM NUMBER 5	ROOM NUMBER 6	ROOM NUMBER 7	ROOM NUMBER 8	ROOM NUMBER 9	ROOM NUMBER 10	ROOM NUMBER 11	ROOM NUMBER 12	ROOM NUMBER 13	PASSAGE AREA	1 COMMON REST ROOM (MEN)	DINING HALL
	FLOOR	GROUND FLOOR	GROUND FLOOR	GROUND FLOOR	GROUND FLOOR	FRIST FLOOR	FRIST FLOOR	FRIST FLOOR	FRIST FLOOR	FRIST FLOOR	FRIST FLOOR	FRIST FLOOR	FRIST FLOOR	FRIST FLOOR	FRIST FLOOR	FRIST FLOOR	FRIST FLOOR	FRIST FLOOR	FRIST FLOOR	FRIST FLOOR	FRIST FLOOR
	NAME OF THE BLOCK	OMEGA BLOCK	OMEGA BLOCK	OMEGA BLOCK	OMEGA BLOCK	OMEGA BLOCK	OMEGA BLOCK	OMEGA BLOCK	OMEGA BLOCK	OMEGA BLOCK	OMEGA BLOCK	OMEGA BLOCK	OMEGA BLOCK	OMEGA BLOCK	OMEGA BLOCK	OMEGA BLOCK	OMEGA BLOCK	OMEGA BLOCK	OMEGA BLOCK	OMEGA BLOCK	OMEGA BLOCK
	S. NO	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172

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OPERATING HOURS 8 HOURS WATTAGE 2 2 2 2 2 2 2 2 3 LIGHTS 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 **TYPE OF LIGHT** T8 36 T8 36 T8 36 **T8** 36 T8 36 **T836** T8 36 T8 36 T8 36 T8 36 T8 36 T8 36 **LIGHT DETAILS ROOM NUMBER 10 ROOM NUMBER 13 ROOM NUMBER 15 ROOM NUMBER 16 ROOM NUMBER 18 ROOM NUMBER 19 ROOM NUMBER 20 ROOM NUMBER 6 ROOM NUMBER 11 ROOM NUMBER 12 ROOM NUMBER 14 ROOM NUMBER 17 ROOM NUMBER 21 ROOM NUMBER 22 ROOM NUMBER 3 ROOM NUMBER 4 ROOM NUMBER 5 ROOM NUMBER 7 ROOM NUMBER 8 ROOM NUMBER 9 ROOM NUMBER 1 ROOM NUMBER 2** LOCATION SECOND FLOOR FLOOR NAME OF THE BLOCK OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** S. NO 173 174 175 176 178 179 180 182 183 185 186 188 189 190 192 193 177 181 184 187 191 194

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OPERATING HOURS 8 HOURS **8 HOURS** 8 HOURS WATTAGE 20 20 20 20 20 20 20 20 20 20 20 LIGHTS NO OF 10 10 7 7 \vdash 7 7 7 7 7 7 7 7 7 7 7 7 **TYPE OF LIGHT T836 T836** T8 36 **LIGHT DETAILS ROOM NUMBER 19 ROOM NUMBER 13 ROOM NUMBER 15 ROOM NUMBER 16 ROOM NUMBER 17 ROOM NUMBER 18 ROOM NUMBER 8** ROOM NUMBER 9 ROOM NUMBER 10 **ROOM NUMBER 11 ROOM NUMBER 12 ROOM NUMBER 14 ROOM NUMBER 3 ROOM NUMBER 4 ROOM NUMBER 5 ROOM NUMBER 6 ROOM NUMBER 7 ROOM NUMBER 1 ROOM NUMBER 2** 2 COMMON REST PASSAGE AREA ROOM (MEN) LOCATION SECOND FLOOR SECOND FLOOR Third floor FLOOR NAME OF THE BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK S. NO 196 198 199 200 203 205 206 208 209 210 211 212 213 214 215 195 197 201 202 204 207

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OPERATING HOURS 8 HOURS 8 HOURS **8 HOURS** 8 HOURS WATTAGE 20 20 20 LIGHTS 10 10 7 7 **6 6** 6 o 0 **σ σ σ σ** 6 0 0 0 7 **TYPE OF LIGHT** T8 36 **T836** T8 36 **LIGHT DETAILS ROOM NUMBER 20 ROOM NUMBER 21 ROOM NUMBER 22** 2 COMMON REST PASSAGE AREA ROOM (MEN) LOCATION ZG10 ZG15 ZG16 ZG11 ZG12 ZG13 ZG14 **Z**G2 99Z 2G8 69Z ZG1 **ZG2 Z**G3 ZG4 ZG7 **GROUND FLOOR GROUND FLOOR** GROUND FLOOR GROUND FLOOR **GROUND FLOOR GROUND FLOOR GROUND FLOOR** GROUND FLOOR **GROUND FLOOR GROUND FLOOR** SECOND FLOOR SECOND FLOOR Third floor Third floor Third floor FLOOR NAME OF THE BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK ZEETA S. NO 216 218 219 220 222 223 224 225 226 227 228 229 230 232 233 234 235 236 217 221 231

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OPERATING HOURS 8 HOURS WATTAGE LIGHTS 11 4 2 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 LED TUBE LIGHT **TYPE OF LIGHT** T8 36 T8 36 T8 36 T8 36 T8 36 **LIGHT DETAILS WOMENS REST ROOM ROOM NUMBER 16 ROOM NUMBER 10 ROOM NUMBER 13 ROOM NUMBER 14 ROOM NUMBER 15 ROOM NUMBER 12 ROOM NUMBER 17 ROOM NUMBER 1 ROOM NUMBER 2 ROOM NUMBER 3 ROOM NUMBER 4 ROOM NUMBER 5 ROOM NUMBER 6 ROOM NUMBER 8 ROOM NUMBER 9 ROOM NUMBER 11 ROOM NUMBER 7 MEN REST ROOM** PASSAGE AREA OCATION. ZG18 ZG17 GROUND FLOOR **GROUND FLOOR** GROUND FLOOR **GROUND FLOOR** GROUND FLOOR **GROUND FLOOR** GROUND FLOOR GROUND FLOOR **GROUND FLOOR GROUND FLOOR** GROUND FLOOR **GROUND FLOOR GROUND FLOOR** GROUND FLOOR **GROUND FLOOR GROUND FLOOR** FLOOR NAME OF THE BLOCK Sigma BLOCK ZEETA ZEETA ZEETA ZEETA ZEETA S. NO 239 240 242 243 244 245 246 247 248 249 250 253 254 255 256 238 241 251 252 257 237

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OPERATING HOURS 8 HOURS WATTAGE 20 20 20 20 20 20 20 20 20 20 LIGHTS 10 16 10 14 20 21 53 7 2 <u>ъ</u> 7 7 7 7 LED TUBE LIGHT FALSE CEILING **TYPE OF LIGHT** FALSE CEILING FALSE CEILING FALSE CEILING LIGHT LIGHT LIGHT LIGHT **LIGHT DETAILS** PASSAGE AREA /STAFF **ROOM NUMBER 18 ROOM NUMBER 19 ROOM NUMBER 20 ROOM NUMBER 24 ROOM NUMBER 21 ROOM NUMBER 22 ROOM NUMBER 23** 2 WOMENS REAST SOFTWARE ROOM SRATT ROOM S 2 REST ROOMS PASSAGE AREA PASSAGE AREA STAFF ROOMS 2 REST ROOM LOCATION ROOM ROOMS ROOM **GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR** GROUND FLOOR GROUND FLOOR **GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR** GROUND FLOOR SECOND FLOOR SECOND FLOOR FRIST FLOOR FRIST FLOOR FRIST FLOOR FLOOR NAME OF THE BLOCK **ALPHA BLOCK ALPHA BLOCK ALPHA BLOCK ALPHA BLOCK** Sigma BLOCK Sigma BLOCK **ALPHA BLOCK ALPHA BLOCK ALPHA BLOCK ALPHA BLOCK ALPHA BLOCK ALPHA BLOCK** Sigma BLOCK Sigma BLOCK Sigma BLOCK Sigma BLOCK Sigma BLOCK S. NO 275 259 260 261 262 263 264 265 266 268 269 270 272 273 274 267 271

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			LIGHT DETAILS				
S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	TYPE OF LIGHT	NO OF LIGHTS	WATTAGE	VATTAGE OPERATING HOURS
276	THETA BLOCK	Ground floor	DINING AREA AND LIBRARY	LED TUBE LIGHT	45	20	
777	THETA BLOCK	FRIST FLOOR	DINING AREA	LED TUBE LIGHT	27	20	

21.0 CONVENTIONAL FAN DETSILS

The conventional fan details area as follows.

			CEILING FAN DETAILS			
S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	NO OF FANS	WATTAGE	OPERATING HOURS
1	BETA BKLOCK	GROUND FLOOR	BG1	7	80	8 HOURS
2	BETA BKLOCK	GROUND FLOOR	BG2	4	80	8 HOURS
m	BETA BKLOCK	GROUND FLOOR	BG3	∞	80	8 HOURS
4	BETA BKLOCK	GROUND FLOOR	BG4	က	80	8 HOURS
Ŋ	BETA BKLOCK	GROUND FLOOR	BG5	2	80	8 HOURS
9	BETA BKLOCK	GROUND FLOOR	BG6	9	80	8 HOURS
7	BETA BKLOCK	GROUND FLOOR	BG8	1	80	8 HOURS
œ	BETA BKLOCK	GROUND FLOOR	BG9	П	80	8 HOURS
6	BETA BKLOCK	GROUND FLOOR	BG10	5	80	8 HOURS
10	BETA BKLOCK	GROUND FLOOR	BG11	П	80	8 HOURS
11	BETA BKLOCK	GROUND FLOOR	BG12	9	80	8 HOURS
12	BETA BKLOCK	GROUND FLOOR	BG13	4	80	8 HOURS
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OPERATING HOURS 8 HOURS WATTAGE 8 8 8 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 **NO OF FANS** 9 4 9 2 9 9 4 9 ∞ 9 9 7 6 4 $^{\circ}$ m **CEILING FAN DETAILS** LOCATION **BS16 BS10** BS13 **BS14 BS18** BT10 **BS8 BS9** BS11 **BS12 BS17 BT2** BT3 BT5 **BT9** BT11 **BT12** BT1 SECOND FLOOR Third floor NAME OF THE BLOCK **BETA BKLOCK BETA BKLOCK BETA BKLOCK** BETA BKLOCK **BETA BKLOCK BETA BKLOCK** BETA BKLOCK BETA BKLOCK **BETA BKLOCK BETA BKLOCK** S. NO 38 39 40 41 42 43 44 45 46 47 48 49 20 51 25 53 54 55 26 37 57

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OPERATING HOURS 8 HOURS 8 HOURS 8 HOURS 8 HOURS 8 HOURS 8 HOURS **8 HOURS** 8 HOURS 8 HOURS 8 HOURS 8 HOURS **8 HOURS** 8 HOURS WATTAGE 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 **NO OF FANS** 10 3 ന 5 2 2 2 7 က $^{\circ}$ $^{\circ}$ $^{\circ}$ 3 2 2 2 2 **CEILING FAN DETAILS** LOCATION DG13 **DG14 DG15** DG10 DG11 **BT18** BT20 **DG12 BT17 BT22 BT23** BT21 DG1 DG2 DG3 DG4 DG5 99**0** DG7 DG8 **D**@ **Ground floor Ground floor** Third floor NAME OF THE BLOCK **BETA BKLOCK BETA BKLOCK DELTA BLOCK BETA BKLOCK BETA BKLOCK BETA BKLOCK BETA BKLOCK BETA BKLOCK** BETA BKLOCK **DELTA BLOCK** S. NO 29 74 75 9/ 79 9 61 63 64 **6**2 99 67 89 71 72 72 73 78 80 81 62

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OPERATING HOURS 8 HOURS WATTAGE 8 8 8 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 **NO OF FANS** 13 10 14 14 10 2 \vdash 7 ∞ 9 4 7 ∞ 9 $^{\circ}$ 9 9 9 9 6 9 **CEILING FAN DETAILS** LOCATION **DG16** DG17 DG18 **DS10** DF1 DF2 DF3 DF4 DF5 DF6 DF7 DF8 DF9 DS2 DS3 DS4 DS5 DS6 DS7 DS8 DS1 SECOND FLOOR FRIST FLOOR FRIST FLOOR FRIST FLOOR **Ground floor Ground floor** FRIST FLOOR FRIST FLOOR FRIST FLOOR FRIST FLOOR FRIST FLOOR FRIST FLOOR **Ground floor** Third floor NAME OF THE BLOCK **DELTA BLOCK DELTA BLOCK** DELTA BLOCK **DELTA BLOCK DELTA BLOCK DELTA BLOCK DELTA BLOCK DELTA BLOCK DELTA BLOCK DELTA BLOCK** S. NO 100 102 101 103 104 94 95 86 66 82 83 84 85 86 88 89 8 91 92 96 97 87

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OPERATING HOURS 8 HOURS **8 HOURS** 8 HOURS **8 HOURS** 8 HOURS 8 HOURS 8 HOURS WATTAGE 80 80 80 80 80 8 8 8 80 80 80 80 80 80 80 80 80 **NO OF FANS** 18 3 က $^{\circ}$ α ന $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ m $^{\circ}$ m $^{\circ}$ $^{\circ}$ **ROOM NUMBER 17 ROOM NUMBER 18 ROOM NUMBER 19 ROOM NUMBER 20** ROOM NUMBER 23 **ROOM NUMBER 10 ROOM NUMBER 12 ROOM NUMBER 21 ROOM NUMBER 22 ROOM NUMBER 9 ROOM NUMBER 11 ROOM NUMBER 1 ROOM NUMBER 3 ROOM NUMBER 5 ROOM NUMBER 6 ROOM NUMBER 7 ROOM NUMBER 8 ROOM NUMBER 2 ROOM NUMBER 3 ROOM NUMBER 2 ROOM NUMBER 4 ROOM NUMBER 1 DINING HALL CEILING FAN DETAILS** LOCATION **GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR** SECOND FLOOR SECOND FLOOR SECOND FLOOR FRIST FLOOR NAME OF THE BLOCK **OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK** S. NO 135 136 139 140 143 144 145 146 148 128 129 130 131 132 133 134 137 138 141 142 147 149 150

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OPERATING HOURS 8 HOURS 8 HOURS **8 HOURS** 8 HOURS 8 HOURS 8 HOURS **8 HOURS** 8 HOURS 8 HOURS 8 HOURS 8 HOURS 8 HOURS **8 HOURS** 8 HOURS WATTAGE 80 NO OF FANS က $^{\circ}$ $^{\circ}$ 3 $^{\circ}$ 3 3 $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ α ന $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ 3 ROOM NUMBER 10 **ROOM NUMBER 12 ROOM NUMBER 13 ROOM NUMBER 14 ROOM NUMBER 15 ROOM NUMBER 16 ROOM NUMBER 18 ROOM NUMBER 19 ROOM NUMBER 20 ROOM NUMBER 8 ROOM NUMBER 11 ROOM NUMBER 17 ROOM NUMBER 21 ROOM NUMBER 22 ROOM NUMBER 4 ROOM NUMBER 5 ROOM NUMBER 6 ROOM NUMBER 9 ROOM NUMBER 2 ROOM NUMBER 3 ROOM NUMBER 4 ROOM NUMBER 7 ROOM NUMBER 1 CEILING FAN DETAILS** LOCATION SECOND FLOOR Third floor Third floor Third floor Third floor NAME OF THE BLOCK **OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK S. NO 155 159 160 165 166 169 170 151 152 153 154 156 157 158 161 162 163 164 167 168 171 172 173

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OPERATING HOURS 8 HOURS **8 HOURS** 8 HOURS 8 HOURS 8 HOURS WATTAGE 80 8 80 80 80 80 8 8 8 80 80 80 80 80 80 80 80 **NO OF FANS** $^{\circ}$ 9 9 9 **σ** ε $^{\circ}$ 3 m m $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ m $^{\circ}$ m $^{\circ}$ $^{\circ}$ **ROOM NUMBER 10 ROOM NUMBER 11** ROOM NUMBER 12 **ROOM NUMBER 13 ROOM NUMBER 14 ROOM NUMBER 15 ROOM NUMBER 16 ROOM NUMBER 18 ROOM NUMBER 19 ROOM NUMBER 20 ROOM NUMBER 21 ROOM NUMBER 22 ROOM NUMBER 9 ROOM NUMBER 17 ROOM NUMBER 5 ROOM NUMBER 6 ROOM NUMBER 8 ROOM NUMBER 7 CEILING FAN DETAILS** LOCATION ZG3 ZG4 **ZG**5 ZG1 ZG2 **GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR** Third floor NAME OF THE BLOCK **OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** ZEETA ZEETA ZEETA ZEETA ZEETA S. NO 174 175 176 178 179 183 185 189 190 193 194 177 180 181 182 184 186 187 188 191 192 195 196

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OPERATING HOURS 8 HOURS **8 HOURS** 8 HOURS **8 HOURS** 8 HOURS WATTAGE 80 80 80 80 80 80 8 8 80 80 80 80 80 80 80 80 80 80 80 NO OF FANS 9 9 9 9 4 2 က 4 4 4 m ന $^{\circ}$ $^{\circ}$ 3 $^{\circ}$ \vdash **ROOM NUMBER 5 ROOM NUMBER 8 ROOM NUMBER 9 ROOM NUMBER 3 ROOM NUMBER 4 ROOM NUMBER 6 ROOM NUMBER 1 ROOM NUMBER 2 ROOM NUMBER 7** PASSAGE AREA **CEILING FAN DETAILS** LOCATION ZG18 ZG10 ZG13 ZG14 ZG15 ZG16 ZG17 ZG12 ZG11 **Z**67 **ZG8** 69Z **GROUND FLOOR GROUND FLOOR** GROUND FLOOR **GROUND FLOOR GROUND FLOOR** GROUND FLOOR **GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR** FLOOR NAME OF THE BLOCK Sigma BLOCK ZEETA S. NO 215 216 203 204 205 206 208 209 210 212 213 214 218 219 197 198 199 200 201 202 207 211 217

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OPERATING HOURS 8 HOURS WATTAGE 80 80 80 80 80 80 80 80 80 80 80 80 80 80 **NO OF FANS** 18 17 $^{\circ}$ $^{\circ}$ $^{\circ}$ 3 $^{\circ}$ m α $^{\circ}$ $^{\circ}$ $^{\circ}$ **DINING AREA AND LIBRARY ROOM NUMBER 10 ROOM NUMBER 11 ROOM NUMBER 12 ROOM NUMBER 13 ROOM NUMBER 14 ROOM NUMBER 15 ROOM NUMBER 16 ROOM NUMBER 17 ROOM NUMBER 18 ROOM NUMBER 19 ROOM NUMBER 20 ROOM NUMBER 21 ROOM NUMBER 22 ROOM NUMBER 23 ROOM NUMBER 24** STAFF ROOMS STAFF ROOMS **DINING AREA CEILING FAN DETAILS** LOCATION **GROUND FLOOR GROUND FLOOR** GROUND FLOOR **GROUND FLOOR** FRIST FLOOR FRIST FLOOR **Ground floor** NAME OF THE BLOCK Sigma BLOCK Sigma BLOCK **ALPHA BLOCK ALPHA BLOCK** THETA BLOCK THETA BLOCK Sigma BLOCK S. NO 220 222 223 224 225 226 228 229 230 233 234 235 236 238 221 227 231 232 237

22.0 AIR CONDITIONER DETAILS

The air conditioner details area are follows.

			AIR CONDITIONER DETAILS	NER DE	TAILS		
S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	MAKE	MODEL (Split / Window)	NO OF AC'S	OPERATING HOURS
1	BETA BLOCK	GROUND FLOOR	SEVER ROOM	HITACHI	SPILT	1	8 HOURS
7	BETA BLOCK	FRIST FLOOR	PLACEMENT OFFICE	HITACHI	SPILT	1	8 HOURS
က	BETA BLOCK	FRIST FLOOR	MEETING ROOM	CARRIER	DUCTED A/C (5 TON)	1	8 HOURS
4	BETA BLOCK	FRIST FLOOR	MEETING ROOM	CARRIER	DUCTED A/C (8 TON)	1	8 HOURS
Ŋ	DELTA BLOCK	GROUND FLOOR	PRINCIPAL ROOM	HITACHI	SPILT	1	8HOURS
9	DELTA BLOCK	GROUND FLOOR	COMPUTER LAB	HITACHI	SPILT	1	8HOURS
7	DELTA BLOCK	GROUND FLOOR	COMPUTER LAB	HITACHI	SPILT	1	8HOURS
∞	DELTA BLOCK	THIRD FLOOR	MEETING ROOM	CARRIER	DUCTED A/C (5 TON)	1	8HOURS
6	ZEETA BLOCK	GROUND FLOOR	LAB	HITACHI	SPILT	1	8HOURS
10	ALPHA BLOCK	GROUND FLOOR	PRINCIPAL ROOM	HITACHI	SPILT	1	8HOURS
11	ALPHA BLOCK	GROUND FLOOR	STAFF ROOM	HITACHI	SPILT	1	8HOURS
12	ALPHA BLOCK	GROUND FLOOR	STAFF ROOM	HITACHI	SPILT	1	8HOURS
13	ALPHA BLOCK	FRIST FLOOR	SEVER ROOM	HITACHI	SPILT	1	8HOURS
14	ALPHA BLOCK	FRIST FLOOR	STAFF ROOM	HITACHI	SPILT	1	8HOURS
15	ALPHA BLOCK	FRIST FLOOR	STAFF ROOM	HITACHI	SPILT	1	8HOURS
16	ALPHA BLOCK	FRIST FLOOR	SOFTWARE	FG	SPILT	1	8HOURS
17	ALPHA BLOCK	FRIST FLOOR	SOFTWARE	WESTER	SPILT	1	8HOURS
18	ALPHA BLOCK	FRIST FLOOR	SOFTWARE	WESTER	SPILT	1	8HOURS
19	ALPHA BLOCK	FRIST FLOOR	SOFTWARE	HITACHI	SPILT	1	8HOURS
20	ALPHA BLOCK	FRIST FLOOR	SOFTWARE	general	SPILT	1	8HOURS

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TECHNOLOGY

OPERATING 8HOURS 8HOURS 8HOURS 8HOURS 8HOURS 8HOURS HOURS NO OF AC'S \vdash MODEL (Split / Window) SPILT SPILT SPILT SPILT SPILT SPILT **AIR CONDITIONER DETAILS** HITACHI CARRIER CARRIER CARRIER CARRIER CARRIER MAKE DINING HALL
GUEST ROOM **COO SIR ROOM CHIRMAN SIR CHIRMAN SIR** STAFF ROOM LOCATION ROOM ROOM SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR FRIST FLOOR FLOOR NAME OF THE BLOCK **ALPHA BLOCK ALPHA BLOCK ALPHA BLOCK ALPHA BLOCK** ALPHA BLOCK **ALPHA BLOCK** S. NO 24 25 26 22 23 **21**

23.0 WALL MOUNTED FAN DETAILS

The wall mounted fan details are as follows.

		WALL M	OUNTED FAN	DETAILS		
S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	NO OF FANS	WATTAGE	OPERATING HOURS
1	ALPHA	GROUND FLOOR	STAFF ROOM 1	1	120	8 HOURS
2	ALPHA	GROUND FLOOR	STAFF ROOM 2	1	120	8 HOURS
3	ALPHA	GROUND FLOOR	STAFF ROOM 3	1	120	8 HOURS
4	ALPHA	GROUND FLOOR	STAFF ROOM 4	1	120	8 HOURS
5	ALPHA	GROUND FLOOR	STAFF ROOM 5	1	120	8 HOURS
6	ALPHA	FRIST FLOOR	SEVER ROOM	1	120	8 HOURS
7	ALPHA	FRIST FLOOR	SOFTWARE ROOM	8	120	8 HOURS
8	ALPHA	SECOND FLOOR	LAB	4	120	8 HOURS
9	ZEETA BLOCK	GROUND FLOOR	STAFF ROOM 1	1	120	8 HOURS
10	ZEETA BLOCK	GROUND FLOOR	STAFF ROOM 2	1	120	8 HOURS

24.0 EXECUTIVE SUMMARY

S. N	o Energy Efficiency Measures	Estimate annual Energy Savings, kWh/Annum	Estimated Investment, INR	Monetary Savings, INR	Simple payback Period, Months
1	Replace existing T8 36 Tube light 36W to 18W LED Light	16,992	1,88,800	1,07,899	21
2	Replace existing 1018 Nos of 80W Ceiling fan to 30W Energy efficient BLDC Fan	101800	3563000	6,46,430	66
3	Replace existing 20 Nos of 120W Wall mounted fan to 30W Energy efficient BLDC Fan	3,600	70,000	22,860	37
	Total	1,23,436	1,22,392	38,21,800	7,77,189

Annual Electrical Energy consumption, kWh/Annum	2,63,440
Annual Electrical Energy Savings, kWh/Annum	122392
Electrical Energy Savings, %	46.5

25.0 ENERGY CONSERVATIVE MEASURES

25.1 Replace existing Conventional fan to BLDC Fan

Observation:

During audit it was observed that conventional ceiling fans were used for ventilation purposes.

Recommendation:

It is recommended to replace those conventional ceiling fans with Energy efficient BLDC fans to observe the following energy savings.

Estimated Savings:

Replace existing Conventional fan to	BLDC Fan	
Description	Units	Values
Quantity of existing Conventional fan	Nos	1,018
Wattage of Conventional fan	W	80
Present operating hours	Hours/Annum	2,000
Average unit cost	INR/kWh	6.35
Energy Consumption by existing Conventional fan	kWh/Annum	1,62,880
Wattage of BLDC Fan	W	30
Energy Consumption by BLDC Fan	kWh/Annum	61,080
Cost of one BLDC Fan	INR	3,500
Energy savings	kWh/Annum	1,01,800
Cost Savings	INR/Annum	6,46,430
Investment	INR	35,63,000
Payback Period	Months	66

25.2 Replace existing Wall mounted fan to BLDC Fan

Observation:

During audit it was observed that conventional wall mounted fans were used for ventilation purposes.

Recommendation:

It is recommended to replace the conventional fan to BLDC fan to reduce energy consumption.

Estimated Savings:

Replace existing Wall mounted fan t	o BLDC Fan	
Description	Units	Values
Quantity of existing Wall mounted fan	Nos	20
Wattage of Wall Mounted fan	W	120
Present operating hours	Hours/Annum	2,000
Average unit cost	INR/kWh	6.35
Energy Consumption by existing Wall mounted fan	kWh/Annum	4,800
Wattage of BLDC Fan	W	30
Energy Consumption by BLDC Fan	kWh/Annum	1,200
Cost of one BLDC Fan	INR	3,500
Energy savings	kWh/Annum	3,600
Cost Savings	INR/Annum	22,860
Investment	INR	70,000
Payback Period	Months	37

25.3 Replace Existing CFL light to LED light.

Observation:

During audit it was observed that few T8 36 Tube light was used for illumination purpose. T8 36 Tube light consumes high power than LED Lights.

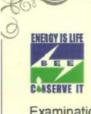
Recommendation:

It is recommended to replace those T8 36 Tube lights with LED lights for better lumens and to lower the power consumption. The lumens of T8 36 Tube light are 63 per watt whereas the lumens of LED light are 120 per watt.

Estimated Savings:

Replace existing T8 36 Tube light t	o LED Light	
Description	Units	Values
Quantity of existing T8 36 Tube light	Nos	472
Wattage of T8 36 Tube light	W	36
Present operating hours	Hours/Annum	2,000
Average unit cost	INR/kWh	6.35
Energy Consumption by existing T8 36 Tube light Lights	kWh/Annum	33,984
Wattage of LED	W	18
Energy Consumption by LED	kWh/Annum	16,992
Cost of one LED	INR	400
Energy savings	kWh/Annum	16,992
Cost Savings	INR/Annum	1,07,899
Investment	INR	1,88,800
Payback Period	Months	21

26.0 ACCREDITED ENERGY AUDITOR CERTIFICATES



BUREAU OF ENERGY EFFICIENCY

Examination Registration No. EA-3201

Accreditation Registration No. AEA-0023



Certificate of Accreditation

The certificate is subject to the provisions of the Bureau of Energy Efficiency (Qualifications for Accredited Energy Auditors and Maintenance of their List) Regulations, 2010.

This certificate shall be valid until it is cancelled under regulation 9 of the Bureau of Energy Efficiency (Qualifications for Accredited Energy Auditors and Maintenance of their List) Regulations, 2010

On cancellation, the certificate of accreditation shall be surrendered to the Bureau within fifteen days from the date of receipt of order of cancellation.

Your name has been entered at AEA No...0023.. in the register of list of accredited energy auditors. Your name shall be liable to be struck out on the grounds specified in regulation 8 of the Bureau of Energy Efficiency (Qualifications for Accredited Energy Auditors and Maintenance of their List) Regulations, 2010.

Given under the seal of the Bureau of Energy Efficiency, Ministry of Power, this 26th day of May 2014.

Secretary, Bureau of Energy Efficiency

New Delhi





SWISO

In association with

THIS IS TO CERTIFY THAT

B. Senthil Kumar

has successfully completed a course approved by the Institute of Environmental Management & Assessment in

ADVANCED EMS AUDITOR (ISO 14001:2004)

(achieving an overall mark of 75%)

13th to 17th October 2008

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Signed for iqms

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Signed for Swiso India Private Limited

IQ - EMS42357

CERTIFICATE NUMBER
iqms Course No. IQM/EMS4/07308/UK approved by IEMA

NIN ENERGY INDIA PRIVATE LIMITED REPORT NO 1530







F.No.09/06/07/IMPL/ECBC/5977-6028

August 21, 2019

Shri Praveen Kumar Yadav Environmental Design Solution Pvt Ltd A-4/3, Basement, Vasant Vihar, New Delhi - 110057

Subject: Empanelment of ECBC Expert Professional

Dear Shri Praveen,

This has reference to your application for empanelment of ECBC Expert Professional for implementing the Energy Conservation Building Code (ECBC). We are pleased to inform that you have been shortlisted to act as the ECBC Expert professional for helping in building technical capacity, compliance with code and effective implementation of it. The validity of the empanelment is for two years or till the creation of a pool of Certified Energy Auditors (Buildings), whichever is earlier. A brief on roles and responsibilities of professionals will be as per the prevailing ECBC Rules, 2018, is enclosed herewith.

It may be further noted that "the professional working with ECBC Cell in States/UTs shall not work on the projects for the same State/UT during their tenure as a part of ECBC cells and after one year from the last date of their incumbent in the ECBC cell. Such professionals may provide technical assistance in other State/UT for other projects."

With best regards.

Yours sincerely,

(Saurabh Diddi) Director

Encl: As above



Certificate of Compliance

This is to certify that

NIN Energy India Private Limited

JUSA Complex, New No 47, Old No 21/2, Ponniamman Koil Street, Kottur, Chennai - 600085 (Tamil Nadu), India.

has been assessed by RSI and found to comply with the requirements of

ISO/IEC 17020:2012

Operation of various types of bodies performing inspection - Requirements

for the following activities:

Mandatory Energy Audit, Environment Audit, Green Audit, PAT Measurement and Verification (M&V),
Power Quality Audit, Infrared Thermography, Electrical Safety Audit, Energy Management Training,
Energy Management System, Measurement & Verification, Green Building Services,
Renewable Energy Services, Carbon Foot Printing and Water Audit

Certificaat Nummer / Certificate No.: IE-BV-2207-5410

Datum Van Publicatie / Date of Issue: 27/07/2022 Vervaldatum / Date of Expiry: 26/07/2025 Ist Annual surveillance audit due on: 26/06/2023

IInd Annual surveillance audit due on: 26/06/2024

Royal Stancert B.V.
Feitelijke Beoordelingen - Wereldwijde Beoordelingen
Certificaat Nummer / Certificate No.: Q-XX-XXXXX-XXXXX

Regd. Office - Joop Geesinkweg 701, 1114 AB Amsterdam. The Netherlands. (KvK-Nummer 71431802 / RSIN 858713159 - Rechtsvorm - Besloten Vennootschap).

This certificate remains the property of Royal Stancert B.V. and must be returned whenever demanded. The validity of this certificate can be verified at http://www.royalstancert.org. Royal Stancert B.V. is an independent system, product and personal assessment body accredited by Global Euro Accreditation Centre, Georgia. (GCIN - 654). Email: info@royalstancert.org Doule.

Director (Certification)



PAC-GEAC-1506-299



Approved by AICTE, Affiliated to Anna University Accredited by NAAC | Recognized by UGC with 2(F)

Academic Year 2021-2022



REPORT ON

ENERGY, ENVIRONMENT AND GREEN AUDIT



PERI INSTITUTE OF TECHNOLOGY

PERI KNOWLEDGE PARK, MANNIVAKKAM, WEST
TAMBARAM, CHENNAI- 600 048.

AUDIT CONDUCTED AND REPORT PREPARED BY



NIN ENERGY INDIA PRIVATE LIMITED
JUSA COMPLEX, NEW NO 47,OLD NO 21/2
PONNIAMMAN KOIL STREET, KOTTUR,
CHENNAI-600085
TAMILNADU, INDIA

JANUARY 2022

Dr. R. PALSON KENNEDY, M.E., Ph.D. PRINCIPAL

Monnivakkam, Chenna

ACKNOWLEDGEMENT

We thank management of PERI INSTITUTE OF TECHNOLOGY for awarding the Energy, Environment and Green Audit study at their facility at PERI Knowledge Park, Mannivakkam, West Tambaram, Chennai – 600 048 to NIN Energy India Private Limited. This report is the result of Energy Audit conducted at PERI INSTITUTE OF TECHNOLOGY January 2022.

We wish to thank the management of PERI INSTITUTE OF TECHNOLOGY for the support during the audit and for successful completion of the audit.

For NIN ENERGY INDIA PRIVATE LIMITED

(B. SENTHILKUMAR)

ACCREDITED ENERGY AUDITOR (AEA 023)

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ABBREVIATIONS

EE	Energy Efficiency	
Dept	Department	
EER	Energy Efficiency Ratio	
INR	Indian Rupees	
KLD	Kilo Litre per day	
kWh	/h Kilo Watt hour	
LED	Light Emitting Diode	
LPG	Liquified petroleum gas	
tCO2	Tonne of Co2	

1.0 INTRODUCTION ABOUT GREEN AUDIT

Green Audit is the process of assessing the environmental impact of an organization, process, project, product, etc.

Green Audit is assigned to the Criteria 7 of NAAC, National Assessment and Accreditation Council which is a self-governing organization of India that declares the institutions as Grade A, Grade B or Grade C according to the scores assigned at the time of accreditation.

2.0 OBJECTIVES

In recent time, the Green Audit of an institution has been becoming a paramount important for self-assessment of the institution which reflects the role of the institution in mitigating the present environmental problems.

The college has been putting efforts to keep our environment clean since its inception. Therefore, the purpose of the present green audit is to identify, quantify, describe, and prioritize framework of Environment Sustainability in compliance with the applicable regulations, policies, and standards.

The main objectives of carrying out Green Audit are:

- To map the Geographical Location of the college
- To document the floral and faunal diversity of the college
- To record the meteorological parameter of college
- To document the ambient environmental condition of weather, air, water, and noise of the college
- To document the waste disposal system
- To estimate the Energy requirements of the college
- To report the expenditure on green initiatives during the last five years

3.0 ABOUT THE COLLEGE / UNIVERSITY

PERI Institute of Technology (PERI IT) was established in 2010 by the PERI Educational and Charitable Trust with the objective of providing quality technical education. The Institute is built at Mannivakkam, Chennai in a sprawling area of 15 acres replete with A/C classrooms, well equipped labs, A/C transport, cafeteria, and a vast library.

PERI IT offers both B.E. and M.E. courses and is recognized as an institution offering technical education by AICTE, New Delhi. It is affiliated to Anna University of Technology, Chennai.

GENESIS

The PERI Educational and Charitable Trust was founded in 2007. The vision of the trust is to provide a world class nodal centre of education where academics, communication, comprehension, visualization, practical application, and leadership skills are imparted through encouraging research, training, and development in technical and non-technical areas.

As part of its vision, the trust established PERI Institute of Technology in 2010 with B.E. courses in Mechanical, Civil, Computers and EEE. In 2011, B.E. ECE was introduced. M.E. Applied Electronics and M.E. Computer Science were added in 2012. M.E. Power Electronics & Drives and M.E. Communication Systems were introduced in 2014.

PERI IT is the brainchild of Mr. Saravanan Periasamy, the founding President & CEO of PERI Software Solutions Inc., a leading multinational IT Consulting and Services Company based in USA and the Chairman of the PERI Educational and Charitable Trust. He is the source of inspiration and the pathfinder for this institution.

ADMINISTRATIVE

PERI IT is administered by a governing council which comprises of representatives of the PERI Educational & Charitable Trust, representatives of the State Government, the Anna University of Technology, Chennai, the All-India Council of Technical Education, New Delhi and eminent scholars and industrialists. The Governing Council is responsible for planning and monitoring all academic and administrative activities of PERI IT. The day-to-day management is conducted by an academic and administrative set up helmed by Mr. Saravanan Periasamy.

4.0 ABOUT NIN ENERGY INDIA PRIVATE LIMITED

NIN Energy India Private Limited is providing Energy Related services like Energy Audit, Power Quality Audit, Infrared Thermography, Thermal Audit, PAT Monitoring and Verification Audit, PAT Consultancy, Green Building Commissioning, Electrical Safety Audit, Internet of Things, Carbon Foot Printing, etc. We have experienced team and helping the customers to manage and reduce their energy consumption.

We are providing complete Energy Services under one roof at a competitive price. Our team members are having more than 10 years of experience in Energy, Renewable Energy and Environmental Engineering with good Academic background.

Our Team Strength

- Accredited Energy Auditor by Bureau of Energy Efficiency, Government of India
- Certified Energy Auditors by Bureau of Energy Efficiency, Ministry of power
- Certified Measurement and Verification Professionals (CMVP) by EVO
- Certified Level II Thermographer
- Enlisted with Tamil Nādu Energy Development Agency (TEDA) as a system Integrator for Solar PV systems.
- Lead Auditors for ISO 50001 (Energy Management System)
- Lead Auditors for ISO 14064 (Green House Gas inventory and verification)
- Lead Auditors for ISO14000 (Environmental Management System)

4.1 AUDIT TEAM

The NIN Energy India private Limited team did the green audit assessment. Team details are as follows.

Name	Designation
Mr. B Senthil Kumar	Accredited Energy Auditor
Mr. T Karthikeyan	Certified Energy Auditor
Mr. S Senthamil Selvan	Sr. Engineer
Mr. S Harishragavendhar	Sr. Engineer

4.2 INSTRUMENTS USED FOR THE AUDIT

The NIN Energy India private Limited team did the green audit assessment. Instruments used for audit are as follows.

S. No	Name of the instrument
1	Air quality meter
2	Noise meter
3 Lux meter	
4	Thermal Imager
5	Clamp meter

5.0 LOCATION OF THE INSTITUTION

Latitude

12.8859° N

Longitude

80.0608° E

6.0 GEOGRAPHICAL LOCATION WITH CAMPUS MAP IN SCALE

Land use data

CATEGORIES OF LAND USE	INDEX
Alpha Block	6117 Sq. ft
Zeta Block	23319 Sq. ft
Omega Block	12912 Sq. ft
Sigma Block	12912 Sq. ft
Beta Block	14463 Sq. ft
Delta Block	12143 Sq. ft
Theta Block	5159 Sq. ft
Plantation Area	206183 Sq. ft
Total Area	272.49 m ²

7.0 ENVIRONMENTAL AUDIT

Carbon footprint is the total sum of greenhouse gases (GHG) emission caused by an organization, event, product, or person. As we are aware, the increasing concentration of GHGs in the atmosphere can accelerate climate change and global warming, it is very necessary to measure these emissions from our day-to-day activities. The first step towards managing GHG emissions is to measure them. There are some standards and guidelines to measure GHG emissions like GHG protocol, ISO 14064, the more comprehensive one Life Cycle Assessment (LCA), and market-based mechanisms. Out of them, ISO 14064 is an offset protocol and independent, voluntary GHG project accounting standard helps to quantify GHG emission of the organization, event, product, or person.

Our day-to-day activities are dependent on electricity which is mostly coming from coal-based power plants, Diesel and Petrol for our vehicles and LPG for cooking in our kitchen. All the energy we use is derived from these fossil fuels which are GHG intensive. The following Petrol, Diesel, and LPG.

Floristic status of the institution:

The Current situation of planted trees are as follows:

Type of Trees	Total no of Trees	
No of matured trees (Age more than 10 years)	131	
No of Semi matured trees (Age below 10 years)	1429	
No of plants/herbs/Shrubs	395	
No of medicinal plants	2	
Any other plants details if any	5	
Total	1962	

Carbon absorption by flora in the Institution

Carbon absorption capacity of one matured tree = 6.8 kg of CO2. Carbon absorption capacity of one full grown tree = 3.4 kg of CO2. In bushes it absorbs an average of 200 g of CO2. The carbon absorption capacity of a 10-sq.ft. area of lawn is 1 g CO2.

- 1. Therefore, the carbon absorption capacity of 131 matured trees in the campus of the Institution $(131 \times 6.8 \text{ kg CO2/Annum}) = 890 \text{ kg of CO2/Annum}$.
- 2. The carbon absorption capacity of 1429 semi-grown trees in campus of 1429 \times 3.4 kg CO2/Annum) = 4858 kg of CO2/Annum.
- 3. There are 440 bushes of various species being raised in the gardens of the Institution, total carbon absorption was calculated to be 395×200 g CO2/Annum) = 79 kg of CO2/Annum

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The grand total of carbon absorption by the flora in the campus is 5827 kg per year.

CO2 REDUCTION MEASURES:

Energy Saving measures	CO2 reduction, Tons/Annum
Replace existing Conventional fan to BLDC Fan	86.53
Replace existing Wall mounted fan to BLDC Fan	3.06
Replace existing T8 36 to LED Light	10.43
Total	100.02

Net Carbon emission of the campus

Description	Unit	Values
Carbon emitted due to the energy consumption in the campus	tCO2 /year	270.66
Carbon absorption by mature trees, semi mature trees, bushes, and lawns	tCO2 /year	-58.27
Net carbon emission of the campus	tCO2 /year	212.39
Carbon reduction opportunities by energy saving projects	tCO2 /year	113.25

8.0 GREEN AUDIT

The list of tree species available in site

S. No	Botanical Name	Common Name	Numbers
1.	Azedaraches indica	Neem Tree	23
2.	Albizia lebbeck	Rain tree	15
3.	Tectona grandis Linn.	Teak	20
4.	Grevillea robusta	Silver Oak	20
5.	Acacia arabica	Black catechu	20

9.0 THE INSTITUTIONAL INITIATIVES FOR GREENING THE CAMPUS ARE AS FOLLOWS







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10.0 LAND USE ANALYSIS

GENERAL OVERVIEW OF THE CONCEPT OF LANDUSE Land use refers to man's activities and the various uses which are carried on and derived from land. Viewing the earth from space, it is now very crucial in man's activities on natural resource. In situations of rapid changes in land use, observations of the Earth from space give the information of human activities and utilization of the landscape. Remote sensing and GIS techniques are now providing new tools for advanced land use mapping and planning. The collection of remotely sensed data facilitates the synoptic analyses of earth system, functions, patterning, and change in the local, regional as well as at global scales over time. Satellite imagery particularly is a valuable tool for generating land use map.

11.0 LAND USE (BUILT UP AREA) ANALYSIS

S. No	Name of the Building	Year of Construction	No of Rooms	No. Of Labs
1	Alpha Block	2010	11	5
2	Beta Block	2010	36	27
3	Delta Block (Ground Floor+2)	2010	45	3
4	Delta Block (3rd Floor)	2013		
5	Theta Block	2010	Canteen and Library	
6	Omega Block (G.F)	2010	87	Boys Hostel
7	Omega Block (first to third)	2014	67	
8	Sigma Block (GF)	2015	24	Girls Hostel
9	Zeta Block (GF)	2016	11	6
10	Driver & Security Cabin	2011	1	0

12.0 STAFFS AND STUDENTS' DETAILS

The staff and student details are as follows.

No of student's details	957
No of Teaching staff	88
No of Non-Teaching staff	23

13.0 TREE DIVERSITY OF THE COLLEGE/ UNIVERSITY

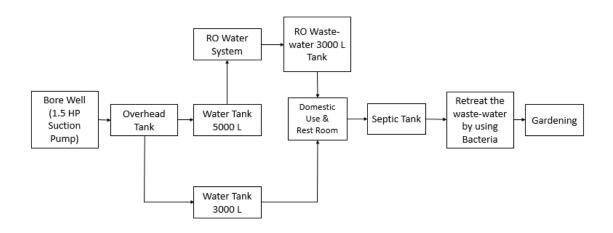
The list of tree species available in site

S. No	Botanical Name	Common Name	Numbers
1.	Azadirachata indica	Neem Tree	23
2.	Albizia lebbeck	Rain tree	15
3.	Tectona grandis Linn.	Teak	20
4.	Grevillea robusta	Silver Oak	20
5.	Acacia arabica	Black catechu	20

14.0 WATER AUDIT

14.1 DIFFERENT SOURCES OF WATER AND QUANTITY RECEIVED ON MONTHLY BASIS AND AREAS OF UTILIZATION

BETA BLOCK WATER RESOURCE LAYOUT



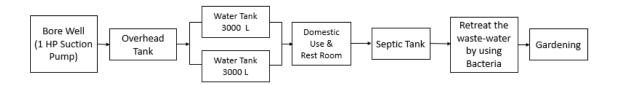
OMEGA BLOCK WATER RESOURCE LAYOUT



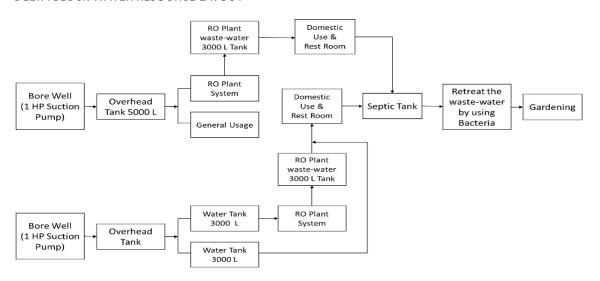
SIGMA BLOCK WATER RESOURCE LAYOUT



ZETA BLOCK WATER RESOURCE LAYOUT



DELTA BLOCK WATER RESOURCE LAYOUT



ALPHA BLOCK WATER RESOURCE LAYOUT



S. No	Parameters	Response
1	Source of water	GROUND SIDE WATER
2	No of Wells	2
3	No of bore wells used	7
4	No of motors used	8
5	Overall average water consumption in the institution per day (in litres)	95000 LITRES
6	Average drinking water consumption in the hostel per day (in litres)	1050 LITRES
7	Average drinking water consumption in the college per day (in litres)	5100 LITRES
8	Average Water consumption for washroom per day (in litres)	38000 LITRES
9	Average Water consumption for gardening per day (in litres)	50,000 LITRES

COOKING

	LPG CYLINDER				
S. No	Description	Details			
1	No of students in a hostel	390			
2	Average LPG cylinder usage per day	7 PER WEEK			
3	Average LPG cylinder usage per month	28			
4	Average LPG cylinder usage per Year	336			
5	Cost of one LPG cylinder	1,700 RS (19 KGS)			
6	Food wasted by students/staff per day?	160 KG PER DAY			

REST ROOM (TOILETS)

	HYGIENIC MEASURES				
S. No	Description	Details			
1	No of rest rooms available in the campus	32 NOS			
2	Availability of lighting and ventilation facilities?	YES			
3	Frequency of cleaning the rest rooms per day / week?	PER DAY ONES			

14.2 WATER CONSERVATION FACILITIES AVAILABLE IN THE INSTITUTION

14.2.1 Rainwater harvesting



14.2.2 Borewell /Open well recharge



15.0 TYPES OF DEGRADABLE AND NON-DEGRADABLE WASTE

The college's degradable and non-degradable waste given to municipality corporation.

16.0 LUX LEVEL

The lux level survey is carried out in various location of campus and details are as follows.

S. No	Block	Floor	Location	Average Lux level	Recommended lux level as per standard
1	BETA	Ground floor	BG-3_ Manufacturing technology	80	300
2	BETA	Ground floor	Engines lab and Thermal lab	195	300
3	BETA	Ground floor	BG-1_ Electrical machines lab	124	300
4	BETA	Ground floor	Engineering practical lab (Mechanical)	80	300
5	BETA	Ground floor	Gents rest room	72	100
6	BETA	Ground floor	Hydraulics' and FM Lab	120	300
7	BETA	Ground floor	Mechanical HOD room	125	300
8	BETA	Ground floor	CSE Project lab	210	300
9	BETA	First floor	BF-8	304	300
10	BETA	First floor	Project lab	70	300
11	BETA	First floor	BF-4_ Microprocessor lab	150	300
12	BETA	First floor	Conference hall	140	300
13	BETA	Second floor	BS-7_ Tutorial room	85	300
14	BETA	Second floor	Communication lab	512	300
15	BETA	Third floor	IOT Lab	412	300
16	BETA	Third floor	Classroom	294	300
17	DELTA	Ground floor	Classroom	165	300
18	DELTA	Ground floor	Computer science lab	170	300
19	DELTA	Ground floor	Staff room	125	300
20	DELTA	First floor	DF-3	124	300
21	DELTA	First floor	DF-3	217	300
22	DELTA	First floor	DF-1_ Staff room	197	300
23	DELTA	First floor	Chemistry lab	223	300
24	DELTA	First floor	DF-6_ Physics lab	150	300
25	DELTA	Second floor	DS-10_ Classroom	164	300
26	DELTA	Second floor	Lecture hall	240	300
27	DELTA	Third floor	DT-7 classroom	186	300
28	DELTA	Third floor	DT-1 Classroom	172	300
29	THETA	Ground floor	Library	265	300
30	THETA	First floor	Canteen	248	300
31	ZETA	Ground floor	Classroom	294	300
32	ZETA	Ground floor	Classroom	280	300
33	ZETA	Ground floor	Lab-1	568	300
34	ZETA	Ground floor	Lab-2	570	300

S. No	Block	Floor	Location	Average Lux level	Recommended lux level as per standard
35	ZETA	Ground floor	Lab-4	332	300
36	ZETA	Ground floor	Lab-5	264	300
37	OMEGA	Ground floor	Boys hostel_ Rooms	214	200
38	OMEGA	Ground floor	Boys hostel_ Canteen	101	200
39	ALPHA	Ground floor	Waiting hall	56	300
40	ALPHA	Ground floor	Admin office	40	300
41	ALPHA	Ground floor	Lab	142	300
42	ALPHA	Ground floor	Classroom	86	300
43	GAMMA	Ground floor	Ladies hostel_ Rooms	115	200
44	GAMMA	Ground floor	Ladies hostel_ Rooms	251	200

Remarks:

It is observed that over all lux level is good in campus. Only few areas lux level needs to be improved by adding addition light.

17.0 AIR QUALITY OF THE COLLEGE

The Air (Prevention and Control of Pollution) Act 1981 was enacted by the Central Government with the objective of arresting the deterioration of air quality. The Air (Prevention and Control of Pollution) Act 1981 describes the main functions of the Central Pollution Control Board (CPCB) as follows:

- To Advise the Central Government on any matter concerning the improvement of the quality the air and the prevention, control, and abatement of air pollution.
- To plan and cause to be executed a nation-wide programme for the prevention, control, and abatement of air pollution.
- To provide technical assistance and guidance to the State Pollution Control Board.
- To carry out and sponsor investigations and research related to prevention, control, and abatement of air pollution.
- To collect, compile and publish technical and statistical data related to air pollution; and
- To lay down and annul standards for the quality of air.

Particulate Matter (PM10 & PM2.5)

A mixture of particles with liquid droplets in the air forms particulate matter. PM 10 are particles that have a size of less than or equal to 10 microns whereas PM2.5 are ultra-fine particles having a size of less than or equal to 2.5 microns.

Sources:

Particulate Matter is released from constructions, smoking, cleanings, renovations, demolitions, constructions, natural hazards such as earthquakes, volcanic eruptions, and emissions from industries such as brick kilns, paper & pulp, etc.

Related effects:

These particles, when inhaled, can penetrate deeper into the respiratory system, and cause respiratory ailments such as asthma, coughing, sneezing, irritation in the airways, eyes, nose, throat irritation, etc. Studies have also shown links between PM exposure and diabetes.

The air quality details are as follows.

S. No	Block	Floor	Location	Air	Quality lev	<i>r</i> el
5. NO	ВЮСК	Floor	Location	PM 1.0	PM 2.5	PM 10
1	BETA	Ground floor	BG-3_ Manufacturing technology	41	89	105
2	BETA	Ground floor	Engines lab and Thermal lab	39	64	79
3	BETA	Ground floor	BG-1_ Electrical machines lab	38	67	82
4	BETA	Ground floor	Engineering practical lab (Mechanical)	38	60	78
5	BETA	Ground floor	Gents rest room	36	61	77
6	BETA	Ground floor	Hydraulics' and FM Lab	36	61	91
7	BETA	Ground floor	Mechanical HOD room	39	64	98
8	BETA	Ground floor	CSE Project lab	44	77	92
9	BETA	First floor	BF-8	46	89	97
10	BETA	First floor	Project lab	39	71	89
11	BETA	First floor	BF-4_ Microprocessor lab	33	57	75
12	BETA	First floor	Conference hall	37	63	74
13	BETA	Second floor	BS-7_ Tutorial room	41	61	74
14	BETA	Second floor	Communication lab	39	57	75
15	BETA	Third floor	IOT Lab	38	63	74
16	BETA	Third floor	Classroom	38	66	85
17	DELTA	Ground floor	Classroom	36	66	82
18	DELTA	Ground floor	Computer science lab	36	68	85
19	DELTA	Ground floor	Staff room	39	71	89
20	DELTA	First floor	DF-3	31	70	82

				Air	Quality lev	rel
S. No	Block	Floor	Location	PM 1.0	PM 2.5	PM 10
21	DELTA	First floor	DF-3	31	87	97
22	DELTA	First floor	DF-1_ Staff room	35	93	107
23	DELTA	First floor	Chemistry lab	49	87	97
24	DELTA	First floor	DF-6_ Physics lab	41	61	74
25	DELTA	Second floor	DS-10_ Classroom	39	57	75
26	DELTA	Second floor	Lecture hall	38	63	74
27	DELTA	Third floor	DT-7 classroom	38	66	85
28	DELTA	Third floor	DT-1 Classroom	36	66	82
29	THETA	Ground floor	Library	36	68	85
30	THETA	First floor	Canteen	39	71	89
31	ZETA	Ground floor	Classroom	31	70	82
32	ZETA	Ground floor	Classroom	31	87	97
33	ZETA	Ground floor	Lab-1	35	93	107
34	ZETA	Ground floor	Lab-2	36	57	72
35	ZETA	Ground floor	Lab-4	33	61	74
36	ZETA	Ground floor	Lab-5	36	71	89
37	OMEGA	Ground floor	Boys hostel_ Rooms	39	70	82
38	OMEGA	Ground floor	Boys hostel_ Canteen	49	87	97
39	ALPHA	Ground floor	Waiting hall	41	61	74
40	ALPHA	Ground floor	Admin office	39	57	75
41	ALPHA	Ground floor	Lab	38	63	74
42	ALPHA	Ground floor	Classroom	38	66	85
43	GAMMA	Ground floor	Ladies hostel_ Rooms	36	66	82
44	GAMMA	Ground floor	Ladies hostel_ Rooms	36	68	85

Remarks:

It is observed that Air quality is found to be satisfactory.

18.0 NOISE LEVEL IN THE SURROUNDING OF COLLEGE

THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000

(The Principal Rules were published in the Gazette of India, vide S.O. 123(E), dated 14.2.2000 and subsequently amended vide S.O. 1046(E), dated 22.11.2000, S.O. 1088(E), dated 11.10.2002, S.O. 1569 (E), dated 19.09.2006 and S.O. 50 (E) dated 11.01.2010 under the Environment (Protection) Act, 1986.)

Ambient Air Quality Standards in respect of Noise

Area Code	Catagory Of Avec /Zone	Limits In dB(A) Leq*		
Area Code	Category Of Area/Zone	Day Time	Night-time	
(A)	Industrial area	75	70	
(B)	Commercial area	65	55	
(C)	Residential area	55	45	
(D)	Silence Zone	50	40	

Note: -

- 1. Day time shall mean from 6.00 a.m. to 10.00 p.m.
- 2. Night-time shall mean from 10.00 p.m. to 6.00 a.m.
- 3. Silence zone is an area comprising not less than 100 metres around hospitals, educational institutions, courts, religious places, or any other area which is declared as such by the competent authority.
- 4. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.
- 5. * dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
- 6. A "decibel" is a unit in which noise is measured.
- 7. "A", in dB(A) Leq, denotes the frequency weighting in the measurement of
- 8. noise and corresponds to frequency response characteristics of the human ear.
- 9. Leq: It is an energy mean of the noise level over a specified period.

The noise level in the campus details are as follows.

S. No	Block	Floor	Location	Noise level, dB
1	BETA	Ground floor	BG-3 Manufacturing technology	56
2	BETA	Ground floor	Engines lab and Thermal lab	75
3	BETA	Ground floor	BG-1_ Electrical machines lab	80
4	BETA	Ground floor	Engineering practical lab (Mechanical)	76
5	BETA	Ground floor	Gents rest room	74
6	BETA	Ground floor	Hydraulics' and FM Lab	86
7	BETA	Ground floor	Mechanical HOD room	84
8	BETA	Ground floor	CSE Project lab	35
9	BETA	First floor	BF-8	101
10	BETA	First floor	Project lab	110
11	BETA	First floor	BF-4_ Microprocessor lab	97
12	BETA	First floor	Conference hall	105
13	BETA	Second floor	BS-7_ Tutorial room	125
14	BETA	Second floor	Communication lab	97
15	BETA	Third floor	IOT Lab	85
16	BETA	Third floor	Classroom	97
17	DELTA	Ground floor	Classroom	64
18	DELTA	Ground floor	Computer science lab	65
19	DELTA	Ground floor	Staff room	74
20	DELTA	First floor	DF-3	58
21	DELTA	First floor	DF-3	74
22	DELTA	First floor	DF-1_ Staff room	94
23	DELTA	First floor	Chemistry lab	75
24	DELTA	First floor	DF-6_ Physics lab	84
25	DELTA	Second floor	DS-10_ Classroom	84
26	DELTA	Second floor	Lecture hall	85
27	DELTA	Third floor	DT-7 classroom	64
28	DELTA	Third floor	DT-1 Classroom	46
29	THETA	Ground floor	Library	65
30	THETA	First floor	Canteen	98
31	ZETA	Ground floor	Classroom	65
32	ZETA	Ground floor	Classroom	85
33	ZETA	Ground floor	Lab-1	84
34	ZETA	Ground floor	Lab-2	96
35	ZETA	Ground floor	Lab-4	52
36	ZETA	Ground floor	Lab-5	74
37	OMEGA	Ground floor	Boys hostel_ Rooms	65
38	OMEGA	Ground floor	Boys hostel_ Canteen	96
39	ALPHA	Ground floor	Waiting hall	74
40	ALPHA	Ground floor	Admin office	68
41	ALPHA	Ground floor	Lab	67
42	ALPHA	Ground floor	Classroom	94

S. No	Block	Floor	Location	Noise level, dB
43	GAMMA	Ground floor	Ladies hostel_ Rooms	67
44	GAMMA	Ground floor	Ladies hostel_ Rooms	48

Remarks:

It is observed that few areas noise level is higher than 65 db. It is recommended to reduce the noise level in mentioned location.

19.0 ENERGY AUDIT

Source of Electricity - 1

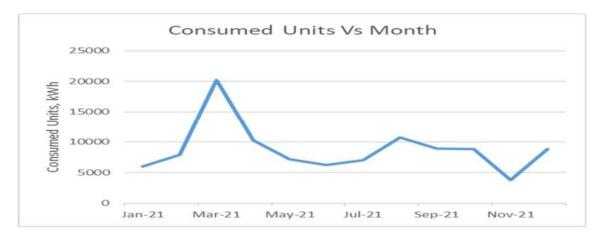
The plant receives two LT EB supply from TNEB. The LT Supply details as follows.

Source Of Power Supply	:	TNEB
Electric Power Supply is received from TANGEDCO	:	LT supply
Service number	:	09-571-001-3041
Sanction Load, kW	:	112
Annual Electricity Consumption, kWh	:	153641
Unit charges, Rs/kWh	:	6.35

The one-year Electricity Bills for 2021-22 bill has been analysed and details as follows.

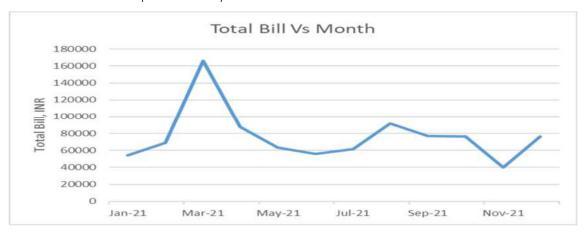
SERVICE NUMBER: 09-571-001-3041				
Month	Consumed Units, kWh	Total bill, INR		
Jan-21	6000	54036		
Feb-21	7880	68886		
Mar-21	20240	166269		
Apr-21	10280	87795		
May-21	7160	63180		
Jun-21	6200	55635		
Jul-21	7040	61619		
Aug-21	10762	91567		
Sep-21	8917	77060		
Oct-21	8827	76608		
Nov-21	3792	40032		
Dec-21	8827	76608		

The units consumed over the period of one year is shown below.



The maximum unit is consumed in the month of March 2021 and minimum unit is consumed in the month of November 2021.

The bill details over the period of one year is shown below.



The maximum bill is paid in the month of March 2021 and minimum in the month of November 2021.

Source of Electricity - 2

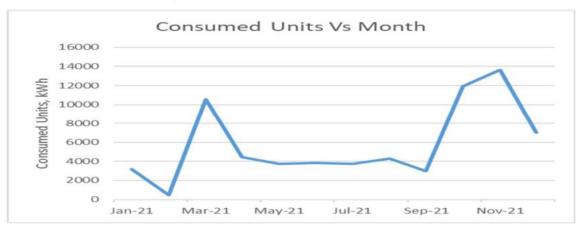
The plant receives two LT EB supply from TNEB. The LT Supply details as follows.

Source Of Power Supply	:	TNEB
Electric Power Supply is received from TANGEDCO	:	LT supply
Service number	:	09-571-001-6732
Sanction Load, kW	:	112
Annual Electricity Consumption, kWh	:	164784
Unit charges, Rs/kWh	:	6.35

The one-year Electricity Bills for 2021-22 bill has been analysed and details as follows.

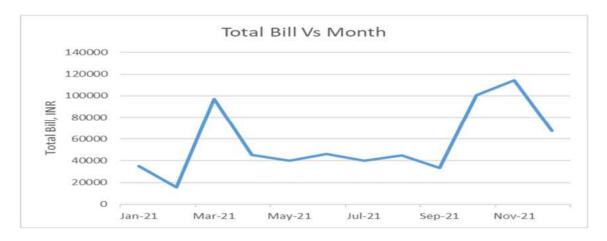
SERV	ICE NUMBER: 09-571-001-6732	
Month	Consumed Units, kWh	Total bill, INR
Jan-21	3200	34955
Feb-21	440	15660
Mar-21	10560	97245
Apr-21	4440	45509
May-21	3720	40003
Jun-21	3840	46231
Jul-21	3760	40009
Aug-21	4304	45021
Sep-21	2984	33136
Oct-21	11917	100736
Nov-21	13646	114345
Dec-21	7020	67338

The units consumed over the period of one year is shown below.



The maximum unit is consumed in the month of November 2021 and minimum unit is consumed in the month of February 2021.

The bill details over the period of one year is shown below.



The maximum bill is paid in the month of November 2021 and minimum in the month of February 2021.

20.0 LIGHT DETAILS

The light details of the campus are as follows.

			LIGHI DEI AILS				
S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	TYPE OF LIGHT	NO OF LIGHTS	WATTAGE	OPERATING HOURS
1	BETA BLOCK	Ground floor	BG1	T8 36	12	20	8 HOURS
7	BETA BLOCK	Ground floor	BG 2	T8 36	4	20	8 HOURS
ĸ	BETA BLOCK	Ground floor	BG3	T8 36	9	20	8 HOURS
4	BETA BLOCK	Ground floor	BG4	T8 36	3	20	8 HOURS
2	BETA BLOCK	Ground floor	BG5	T8 36	2	20	8 HOURS
9	BETA BLOCK	Ground floor	BG6	T8 36	9	20	8 HOURS
7	BETA BLOCK	Ground floor	BG7	T8 36	3	20	8 HOURS
∞	BETA BLOCK	Ground floor	BG8	T8 36	1	20	8 HOURS
6	BETA BLOCK	Ground floor	BG9	T8 36	1	20	8 HOURS
10	BETA BLOCK	Ground floor	BG10	T8 36	7	20	8 HOURS
11	BETA BLOCK	Ground floor	BG11	T8 36	2	20	8 HOURS
12	BETA BLOCK	Ground floor	BG12	T8 36	9	20	8 HOURS
13	BETA BLOCK	Ground floor	BG13	T8 36	4	20	8 HOURS
14	BETA BLOCK	Ground floor	BG14	T8 36	1	20	8 HOURS
15	BETA BLOCK	Ground floor	BG15	T8 36	2	20	8 HOURS
16	BETA BLOCK	Ground floor	BG16	T8 36	11	20	8 HOURS
17	BETA BLOCK	FRIST FLOOR	BF11	T8 36	9	20	8 HOURS
18	BETA BLOCK	FRIST FLOOR	BF12	T8 36	8	20	8 HOURS
19	BETA BLOCK	FRIST FLOOR	BF13	T8 36	9	20	8 HOURS
20	BETA BLOCK	FRIST FLOOR	BF14	T8 36	2	20	8 HOURS
21	BETA BLOCK	FRIST FLOOR	BF15	T8 36	1	20	8 HOURS
22	BETA BLOCK	FRIST FLOOR	BF16	T8 36	æ	20	8 HOURS

3.NO NAME OF THE BLOCK FRIST FLOOR BF17 TYPE OF LIGHT MAT AT AGE DEPATMENDED 23 BETA BLOCK FRIST FLOOR BF13 178.36 3 20 8 HOURS 24 BETA BLOCK FRIST FLOOR BF13 178.36 3 20 8 HOURS 25 BETA BLOCK FRIST FLOOR BF13 178.36 2 2 8 HOURS 26 BETA BLOCK FRIST FLOOR BF2 178.36 2 2 8 HOURS 29 BETA BLOCK FRIST FLOOR BF2 178.36 3 2 8 HOURS 30 BETA BLOCK FRIST FLOOR BF4 178.36 4 2 8 HOURS 31 BETA BLOCK FRIST FLOOR BF5 178.36 3 8 HOURS 32 BETA BLOCK FRIST FLOOR BF5 178.36 3 8 HOURS 34 BETA BLOCK FRIST FLOOR BF6 18.36 1 8 HOURS 34 BETA				LIGHT DETAILS				
BETA BLOCK FRIST FLOOR BF13 TR35 1 20 BETA BLOCK FRIST FLOOR BF13 TR36 3 20 BETA BLOCK FRIST FLOOR BF13 TR36 5 20 BETA BLOCK FRIST FLOOR BF1 TR36 2 20 BETA BLOCK FRIST FLOOR BF3 TR36 4 20 BETA BLOCK FRIST FLOOR BF3 TR36 4 20 BETA BLOCK FRIST FLOOR BF3 TR36 7 20 BETA BLOCK FRIST FLOOR BF6 TR36 7 20 BETA BLOCK FRIST FLOOR BF6 TR36 3 20 BETA BLOCK FRIST FLOOR BF7 PL LIGHT 29 36 BETA BLOCK FRIST FLOOR BF7 TR36 3 20 BETA BLOCK SECOND FLOOR BS7 TR36 3 20 BETA BLOCK SECOND FLOOR BS3 TR36 3 <t< th=""><th>S. NO</th><th>NAME OF THE BLOCK</th><th>FLOOR</th><th>LOCATION</th><th>TYPE OF LIGHT</th><th>NO OF LIGHTS</th><th>WATTAGE</th><th>OPERATING HOURS</th></t<>	S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	TYPE OF LIGHT	NO OF LIGHTS	WATTAGE	OPERATING HOURS
BETA BLOCK FRIST FLOOR BF19 TR36 3 20 BETA BLOCK FRIST FLOOR BF19 TR36 3 20 BETA BLOCK FRIST FLOOR BF21 TR36 2 20 BETA BLOCK FRIST FLOOR BF21 TR36 3 20 BETA BLOCK FRIST FLOOR BF2 TR36 4 20 BETA BLOCK FRIST FLOOR BF3 TR36 4 20 BETA BLOCK FRIST FLOOR BF6 TR36 7 20 BETA BLOCK FRIST FLOOR BF6 TR36 3 20 BETA BLOCK FRIST FLOOR BF8 TR36 3 20 BETA BLOCK FRIST FLOOR BF8 TR36 3 20 BETA BLOCK FRIST FLOOR BF9 TR36 4 20 BETA BLOCK FRIST FLOOR BF1 2 2 2 BETA BLOCK FRIST FLOOR BF3 4 20 2	23	BETA BLOCK	FRIST FLOOR	BF17	T8 36	П	20	8 HOURS
BETA BLOCK FRIST FLOOR BF19 TR 35 20 BETA BLOCK FRIST FLOOR BF20 TR 35 20 BETA BLOCK FRIST FLOOR BF21 TR 36 2 20 BETA BLOCK FRIST FLOOR BF3 TR 36 4 20 20 BETA BLOCK FRIST FLOOR BF3 TR 36 4 20 20 BETA BLOCK FRIST FLOOR BF5 TR 36 7 20 20 BETA BLOCK FRIST FLOOR BF6 TR 36 7 20 20 BETA BLOCK FRIST FLOOR BF6 TR 36 3 20 20 BETA BLOCK FRIST FLOOR BF9 TR 36 3 20 20 BETA BLOCK FRIST FLOOR BF1 TR 36 3 20 20 BETA BLOCK FRIST FLOOR BS2 TR 36 4 20 20 BETA BLOCK FRIST FLOOR BS2 TR 36 5 20	24	BETA BLOCK	FRIST FLOOR	BF18	T8 36	3	20	8 HOURS
BETA BLOCK FRIST FLOOR BF20 TR36 5 20 BETA BLOCK FRIST FLOOR BF21 TR36 20 20 BETA BLOCK FRIST FLOOR BF3 7 20 20 BETA BLOCK FRIST FLOOR BF3 TR36 4 20 20 BETA BLOCK FRIST FLOOR BF4 TR36 7 20 20 BETA BLOCK FRIST FLOOR BF5 TR36 7 20 20 BETA BLOCK FRIST FLOOR BF6 TR36 7 20 20 BETA BLOCK FRIST FLOOR BF7 PL LIGHT 29 36 20 BETA BLOCK FRIST FLOOR BF9 TR36 3 20 20 BETA BLOCK FRIST FLOOR BF10 TR36 3 20 20 BETA BLOCK FRIST FLOOR BF3 TR36 3 20 20 BETA BLOCK SECOND FLOOR BS3 FALSE CELLING 9	25	BETA BLOCK	FRIST FLOOR	BF19	T8 36	3	20	8 HOURS
BETA BLOCK FRIST FLOOR BF21 TR356 2 20 BETA BLOCK FRIST FLOOR BF1 TR356 3 20 20 BETA BLOCK FRIST FLOOR BF3 TR36 4 20 20 BETA BLOCK FRIST FLOOR BF3 TR36 7 20 20 BETA BLOCK FRIST FLOOR BF6 TR36 7 20 20 BETA BLOCK FRIST FLOOR BF6 TR36 7 20 20 BETA BLOCK FRIST FLOOR BF6 TR36 3 20 20 BETA BLOCK FRIST FLOOR BF7 TR36 3 20 20 BETA BLOCK FRIST FLOOR BF9 TR36 3 20 20 BETA BLOCK FRIST FLOOR BF9 TR36 3 20 20 BETA BLOCK FRIST FLOOR BS3 FALSE CELLING 9 20 BETA BLOCK SECOND FLOOR BS3 FALSE CELLING<	5 6	BETA BLOCK	FRIST FLOOR	BF20	T8 36	2	20	8 HOURS
BETA BLOCK FRIST FLOOR BF1 TR 36 3 20 BETA BLOCK FRIST FLOOR BF3 TR 36 4 20 BETA BLOCK FRIST FLOOR BF3 TR 36 4 20 BETA BLOCK FRIST FLOOR BF4 TR 36 7 20 BETA BLOCK FRIST FLOOR BF6 TR 36 7 20 BETA BLOCK FRIST FLOOR BF7 PL LIGHT 29 36 BETA BLOCK FRIST FLOOR BF8 TR 36 1 20 BETA BLOCK FRIST FLOOR BF9 TR 36 1 20 BETA BLOCK SECOND FLOOR BS1 TR 36 4 20 BETA BLOCK SECOND FLOOR BS3 FALSE CEILING 9 20 BETA BLOCK SECOND FLOOR BS3 FALSE CEILING 9 20 BETA BLOCK SECOND FLOOR BS3 FALSE CEILING 9 20 BETA BLOCK SECOND FLOOR BS3 FALS	27	BETA BLOCK	FRIST FLOOR	BF21	T8 36	2	20	8 HOURS
BETA BLOCK FRIST FLOOR BF3 TR36 4 20 BETA BLOCK FRIST FLOOR BF4 TR36 4 20 BETA BLOCK FRIST FLOOR BF5 TR36 7 20 BETA BLOCK FRIST FLOOR BF6 TR36 7 20 BETA BLOCK FRIST FLOOR BF7 TR36 1 20 BETA BLOCK FRIST FLOOR BF7 TR36 3 20 BETA BLOCK FRIST FLOOR BF8 TR36 1 20 BETA BLOCK FRIST FLOOR BF9 TR36 1 20 BETA BLOCK FRIST FLOOR BS1 TR36 4 20 BETA BLOCK SECOND FLOOR BS3 FAISE CELING 9 20 BETA BLOCK SECOND FLOOR BS4 FAISE CELING 9 20 BETA BLOCK SECOND FLOOR BS5 TR36 5 20 BETA BLOCK SECOND FLOOR BS5 TR36 5	28	BETA BLOCK	FRIST FLOOR	BF1	T8 36	3	20	8 HOURS
BETA BLOCK FRIST FLOOR BF3 TR3 36 4 20 BETA BLOCK FRIST FLOOR BF4 TR3 36 7 20 BETA BLOCK FRIST FLOOR BF6 TR3 36 7 20 BETA BLOCK FRIST FLOOR BF7 PL LIGHT 29 36 20 BETA BLOCK FRIST FLOOR BF3 TR 36 1 20 36 BETA BLOCK FRIST FLOOR BF10 TR 36 1 20 36 BETA BLOCK FRIST FLOOR BF10 TR 36 1 20 36 BETA BLOCK SECOND FLOOR BS3 FAISE CEILING 9 20 30 BETA BLOCK SECOND FLOOR BS3 FAISE CEILING 9 20 30 BETA BLOCK SECOND FLOOR BS3 FAISE CEILING 9 20 30 BETA BLOCK SECOND FLOOR BS4 FAISE CEILING 9 20 30 BETA BLOCK SECOND FLOOR BS5	53	BETA BLOCK	FRIST FLOOR	BF2	T8 36	4	20	8 HOURS
BETA BLOCK FRIST FLOOR BF5 TR36 7 20 BETA BLOCK FRIST FLOOR BF6 TR36 7 20 BETA BLOCK FRIST FLOOR BF6 TR36 1 20 BETA BLOCK FRIST FLOOR BF8 TR36 3 20 BETA BLOCK FRIST FLOOR BF10 TR36 1 20 BETA BLOCK FRIST FLOOR BF10 TR36 1 20 BETA BLOCK FRIST FLOOR BS1 TR36 4 20 BETA BLOCK SECOND FLOOR BS3 FALSE CEILING 9 20 BETA BLOCK SECOND FLOOR BS3 FALSE CEILING 9 20 BETA BLOCK SECOND FLOOR BS3 FALSE CEILING 9 20 BETA BLOCK SECOND FLOOR BS4 FALSE CEILING 9 20 BETA BLOCK SECOND FLOOR BS5 TR36 5 20	30	BETA BLOCK	FRIST FLOOR	BF3	T8 36	4	20	8 HOURS
BETA BLOCK FRIST FLOOR BF5 TR 36 7 20 BETA BLOCK FRIST FLOOR BF6 TR 36 1 20 36 BETA BLOCK FRIST FLOOR BF9 TR 36 1 20 36 BETA BLOCK FRIST FLOOR BF10 TR 36 1 20 36 BETA BLOCK FRIST FLOOR BS1 TR 36 1 20 30 BETA BLOCK FRIST FLOOR BS1 TR 36 4 20 30 BETA BLOCK SECOND FLOOR BS3 TR 36 4 20 30 BETA BLOCK SECOND FLOOR BS3 FALSE CEILING 9 20 30 BETA BLOCK SECOND FLOOR BS5 FALSE CEILING 9 20 30 BETA BLOCK SECOND FLOOR BS5 FALSE CEILING 9 20 30 BETA BLOCK SECOND FLOOR BS5 TR 36 5 20 30 BETA BLOCK SECOND FLOOR <th>31</th> <td>BETA BLOCK</td> <td>FRIST FLOOR</td> <td>BF4</td> <td>T8 36</td> <td>7</td> <td>20</td> <td>8 HOURS</td>	31	BETA BLOCK	FRIST FLOOR	BF4	T8 36	7	20	8 HOURS
BETA BLOCK FRIST FLOOR BFG TR 36 1 20 BETA BLOCK FRIST FLOOR BF7 PL LIGHT 29 36 BETA BLOCK FRIST FLOOR BF9 TR 36 3 20 BETA BLOCK FRIST FLOOR BF10 TR 36 1 20 20 BETA BLOCK SECOND FLOOR BS1 TR 36 4 20 20 BETA BLOCK SECOND FLOOR BS3 FALSE CEILING 9 20 20 BETA BLOCK SECOND FLOOR BS4 FALSE CEILING 9 20 BETA BLOCK SECOND FLOOR BS5 FALSE CEILING 9 20 BETA BLOCK SECOND FLOOR BS5 TR 36 5 20 BETA BLOCK SECOND FLOOR BS5 TR 36 5 20	32	BETA BLOCK	FRIST FLOOR	BF5	T8 36	7	20	8 HOURS
BETA BLOCK FRIST FLOOR BFR PL LIGHT 29 36 BETA BLOCK FRIST FLOOR BFR TR 366 3 200 BETA BLOCK FRIST FLOOR BF10 TR 366 1 20 BETA BLOCK SECOND FLOOR BS1 TR 366 4 20 BETA BLOCK SECOND FLOOR BS3 FALSE CELLING 9 20 BETA BLOCK SECOND FLOOR BS4 FALSE CELLING 9 20 BETA BLOCK SECOND FLOOR BS5 FALSE CELLING 9 20 BETA BLOCK SECOND FLOOR BS5 FALSE CELLING 9 20 BETA BLOCK SECOND FLOOR BS6 TR 366 5 20 BETA BLOCK SECOND FLOOR BS6 TR 366 5 20	33	BETA BLOCK	FRIST FLOOR	BF6	T8 36	П	20	8 HOURS
BETA BLOCK FRIST FLOOR BF9 TR8 36 3 20 BETA BLOCK FRIST FLOOR BF10 TR 36 1 20 1 BETA BLOCK FRIST FLOOR BF10 TR 36 1 20 20 BETA BLOCK SECOND FLOOR BS3 FALSE CEILING 9 20 20 BETA BLOCK SECOND FLOOR BS4 FALSE CEILING 9 20 20 BETA BLOCK SECOND FLOOR BS5 FALSE CEILING 9 20 20 BETA BLOCK SECOND FLOOR BS5 TR 36 5 20 20 BETA BLOCK SECOND FLOOR BS6 TR 36 5 20 20	34	BETA BLOCK	FRIST FLOOR	BF7	PL LIGHT	29	36	8 HOURS
BETA BLOCK FRIST FLOOR BF10 TR 36 1 20 BETA BLOCK SECOND FLOOR BS1 TR 36 5 20 BETA BLOCK SECOND FLOOR BS2 TR 36 4 20 20 BETA BLOCK SECOND FLOOR BS3 FALSE CEILING 9 20 20 BETA BLOCK SECOND FLOOR BS5 FALSE CEILING 9 20 20 BETA BLOCK SECOND FLOOR BS5 FALSE CEILING 9 20 20 BETA BLOCK SECOND FLOOR BS6 TR 36 5 20 20 BETA BLOCK SECOND FLOOR BS5 TR 36 5 20 20	35	BETA BLOCK	FRIST FLOOR	BF8	T8 36	ന	20	8 HOURS
BETA BLOCK FRIST FLOOR BF10 TR 36 1 20 BETA BLOCK SECOND FLOOR BS3 TR 36 4 20 20 BETA BLOCK SECOND FLOOR BS3 FALSE CEILING LIGHT 9 20 20 BETA BLOCK SECOND FLOOR BS5 FALSE CEILING LIGHT 9 20 20 BETA BLOCK SECOND FLOOR BS5 TR 36 5 20 20 BETA BLOCK SECOND FLOOR BS6 TR 36 5 20 20	36	BETA BLOCK	FRIST FLOOR	BF9	T8 36	П	20	8 HOURS
BETA BLOCK SECOND FLOOR BS1 TR 36 5 20 BETA BLOCK SECOND FLOOR BS3 FALSE CEILING LIGHT 9 20 BETA BLOCK SECOND FLOOR BS4 FALSE CEILING LIGHT 9 20 BETA BLOCK SECOND FLOOR BS5 FALSE CEILING LIGHT 9 20 BETA BLOCK SECOND FLOOR BS6 TR 36 5 20 BETA BLOCK SECOND FLOOR BS7 TR 36 2 20	37	BETA BLOCK	FRIST FLOOR	BF10	T8 36	1	20	8 HOURS
BETA BLOCK SECOND FLOOR BS3 FALSE CEILING LIGHT 9 20 BETA BLOCK SECOND FLOOR BS4 FALSE CEILING LIGHT 9 20 BETA BLOCK SECOND FLOOR BS5 FALSE CEILING LIGHT 9 20 BETA BLOCK SECOND FLOOR BS6 T8 36 5 20 BETA BLOCK SECOND FLOOR BS7 T8 36 2 20	38	BETA BLOCK	SECOND FLOOR	BS1	T8 36	5	20	8 HOURS
BETA BLOCKSECOND FLOORBS3FALSE CEILING LIGHT920BETA BLOCKSECOND FLOORBS5FALSE CEILING LIGHT920BETA BLOCKSECOND FLOORBS6T8 36520BETA BLOCKSECOND FLOORBS7T8 36220	39	BETA BLOCK	SECOND FLOOR	BS2	T8 36	4	20	8 HOURS
BETA BLOCK SECOND FLOOR BS5 FALSE CEILING LIGHT 9 20 BETA BLOCK SECOND FLOOR BS5 TR 36 5 20 BETA BLOCK SECOND FLOOR BS7 TR 36 5 20	40	BETA BLOCK	SECOND FLOOR	BS3	FALSE CEILING LIGHT	6	20	8 HOURS
BETA BLOCKSECOND FLOORBSSFALSE CEILING LIGHT920BETA BLOCKSECOND FLOORBS7T8 362	41	BETA BLOCK	SECOND FLOOR	BS4	FALSE CEILING LIGHT	6	20	8 HOURS
BETA BLOCK SECOND FLOOR BSS T8 36 5 20 BETA BLOCK SECOND FLOOR BS7 T8 36 2 20	42	BETA BLOCK	SECOND FLOOR	BS5	FALSE CEILING LIGHT	6	20	8 HOURS
BETA BLOCK SECOND FLOOR BS7 T8 36 2 20	43	BETA BLOCK	SECOND FLOOR	BS6	T8 36	2	20	8 HOURS
	44	BETA BLOCK	SECOND FLOOR	BS7	T8 36	2	20	8 HOURS

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			LIGHT DETAILS				
S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	TYPE OF LIGHT	NO OF LIGHTS	WATTAGE	OPERATING HOURS
45	BETA BLOCK	SECOND FLOOR	BS8	T8 36	4	20	8 HOURS
46	BETA BLOCK	SECOND FLOOR	BS9	T8 36	4	20	8 HOURS
47	BETA BLOCK	SECOND FLOOR	BS10	T8 36	П	36	8 HOURS
48	BETA BLOCK	SECOND FLOOR	BS11	T8 36	9	20	8 HOURS
49	BETA BLOCK	SECOND FLOOR	BS12	T8 36	9	20	8 HOURS
20	BETA BLOCK	SECOND FLOOR	BS13	T8 36	5	20	8 HOURS
51	BETA BLOCK	SECOND FLOOR	BS13	T8 36	П	20	8 HOURS
25	BETA BLOCK	SECOND FLOOR	BS14	T8 36	5	20	8 HOURS
23	BETA BLOCK	SECOND FLOOR	BS15	T8 36	П	20	8 HOURS
24	BETA BLOCK	SECOND FLOOR	BS16	T8 36	က	20	8 HOURS
22	BETA BLOCK	SECOND FLOOR	BS17	T8 36	4	20	8 HOURS
26	BETA BLOCK	SECOND FLOOR	BS18	T8 36	1	20	8 HOURS
22	BETA BLOCK	SECOND FLOOR	BS19	T8 36	10	20	8 HOURS
28	BETA BLOCK	Third floor	BT1	T8 36	9	20	8 HOURS
29	BETA BLOCK	Third floor	BT2	T8 36	7	20	8 HOURS
09	BETA BLOCK	Third floor	ВТ3	T8 36	7	20	8 HOURS
61	BETA BLOCK	Third floor	BT4	T8 36	က	20	8 HOURS
62	BETA BLOCK	Third floor	BT5	T8 36	9	20	8 HOURS
63	BETA BLOCK	Third floor	ВТ6	T8 36	4	20	8 HOURS
64	BETA BLOCK	Third floor	BT7	T8 36	3	20	8 HOURS
9	BETA BLOCK	Third floor	BT8	T8 36	П	20	8 HOURS
99	BETA BLOCK	Third floor	ВТ9	T8 36	1	20	8 HOURS
29	BETA BLOCK	Third floor	BT10	T8 36	7	20	8 HOURS
89	BETA BLOCK	Third floor	BT11	T8 36	7	20	8 HOURS
69	BETA BLOCK	Third floor	BT12	T8 36	5	20	8 HOURS
NIN ENE	NIN ENERGY INDIA PRIVATE LIMITED REPORT NO 1530	DRT NO 1530		Page 29 of 60			

			LIGHT DETAILS				
S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	TYPE OF LIGHT	NO OF LIGHTS	WATTAGE	OPERATING HOURS
20	BETA BLOCK	Third floor	BT13	T8 36	4	20	8 HOURS
71	BETA BLOCK	Third floor	BT14	T8 36	1	20	8 HOURS
72	BETA BLOCK	Third floor	BT15	T8 36	3	20	8 HOURS
73	BETA BLOCK	Third floor	BT16	T8 36	1	20	8 HOURS
74	BETA BLOCK	Third floor	BT17	T8 36	က	20	8 HOURS
75	BETA BLOCK	Third floor	BT18	T8 36	4	20	8 HOURS
9/	BETA BLOCK	Third floor	BT19	T8 36	ന	20	8 HOURS
77	BETA BLOCK	Third floor	ВТ20	T8 36	3	20	8 HOURS
78	BETA BLOCK	Third floor	BT21	T8 36	4	20	8 HOURS
79	BETA BLOCK	Third floor	ВТ22	T8 36	4	20	8 HOURS
80	BETA BLOCK	Third floor	ВТ23	T8 36	3	20	8 HOURS
81	BETA BLOCK	Third floor	BT24	T8 36	13	20	8 HOURS
82	DELTA BLOCK	Ground floor	DG1	LED TUBE LIGHT	4	20	8 HOURS
83	DELTA BLOCK	Ground floor	DG2	LED TUBE LIGHT	4	20	8 HOURS
84	DELTA BLOCK	Ground floor	DG3	LED TUBE LIGHT	4	20	8 HOURS
82	DELTA BLOCK	Ground floor	DG4	LED TUBE LIGHT	4	20	8 HOURS
98	DELTA BLOCK	Ground floor	DG5	LED TUBE LIGHT	4	20	8 HOURS
87	DELTA BLOCK	Ground floor	DG6	LED TUBE LIGHT	4	20	8 HOURS
88	DELTA BLOCK	Ground floor	DG7	LED TUBE LIGHT	4	20	8 HOURS
88	DELTA BLOCK	Ground floor	DG8	LED TUBE LIGHT	4	20	8 HOURS
90	DELTA BLOCK	Ground floor	DG9	LED TUBE LIGHT	4	20	8 HOURS
91	DELTA BLOCK	Ground floor	DG10	LED TUBE LIGHT	2	20	8 HOURS
95	DELTA BLOCK	Ground floor	DG11	LED TUBE LIGHT	2	20	8 HOURS
93	DELTA BLOCK	Ground floor	DG12	LED TUBE LIGHT	1	20	8 HOURS
94	DELTA BLOCK	Ground floor	DG13	LED TUBE LIGHT	П	20	8 HOURS
NIN ENE	NIN ENERGY INDIA PRIVATE LIMITED REPORT NO 1530	RT NO 1530		Page 30 of 60			

			LIGHT DETAILS				
S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	TYPE OF LIGHT	NO OF LIGHTS	WATTAGE	OPERATING HOURS
92	DELTA BLOCK	Ground floor	DG14	LED TUBE LIGHT	∞	20	8 HOURS
96	DELTA BLOCK	Ground floor	DG15	LED TUBE LIGHT	7	20	8 HOURS
97	DELTA BLOCK	Ground floor	DG16	LED TUBE LIGHT	m	20	8 HOURS
86	DELTA BLOCK	Ground floor	DG17	LED TUBE LIGHT	4	20	8 HOURS
66	DELTA BLOCK	Ground floor	DG18	LED TUBE LIGHT	8	20	8 HOURS
100	DELTA BLOCK	Ground floor	DG PASSAGE AREA	LED TUBE LIGHT	25	20	8 HOURS
101	DELTA BLOCK	FRIST FLOOR	DF1	LED TUBE LIGHT	10	20	8 HOURS
102	DELTA BLOCK	FRIST FLOOR	DF2	LED TUBE LIGHT	8	20	8 HOURS
103	DELTA BLOCK	FRIST FLOOR	DF3	LED TUBE LIGHT	2	20	8 HOURS
104	DELTA BLOCK	FRIST FLOOR	DF4	LED TUBE LIGHT	8	20	8 HOURS
105	DELTA BLOCK	FRIST FLOOR	DF5	LED TUBE LIGHT	6	20	8 HOURS
106	DELTA BLOCK	FRIST FLOOR	DF6	LED TUBE LIGHT	10	20	8 HOURS
107	DELTA BLOCK	FRIST FLOOR	DF7	LED TUBE LIGHT	2	20	8 HOURS
108	DELTA BLOCK	FRIST FLOOR	DF8	LED TUBE LIGHT	9	20	8 HOURS
109	DELTA BLOCK	FRIST FLOOR	DF9	LED TUBE LIGHT	2	20	8 HOURS
110	DELTA BLOCK	FRIST FLOOR	DF PASSAGE AREA	LED TUBE LIGHT	4	20	8 HOURS
111	DELTA BLOCK	SECOND FLOOR	DS 1	LED TUBE LIGHT	9	20	8 HOURS
112	DELTA BLOCK	SECOND FLOOR	DS 2	LED TUBE LIGHT	5	20	8 HOURS
113	DELTA BLOCK	SECOND FLOOR	DS 3	LED TUBE LIGHT	ന	20	8 HOURS
114	DELTA BLOCK	SECOND FLOOR	DS 4	LED TUBE LIGHT	5	20	8 HOURS
115	DELTA BLOCK	SECOND FLOOR	DS 5	LED TUBE LIGHT	4	20	8 HOURS
116	DELTA BLOCK	SECOND FLOOR	DS 6	LED TUBE LIGHT	4	20	8 HOURS
117	DELTA BLOCK	SECOND FLOOR	DS 7	LED TUBE LIGHT	5	20	8 HOURS
118	DELTA BLOCK	SECOND FLOOR	DS 8	LED TUBE LIGHT	4	20	8 HOURS
119	DELTA BLOCK	SECOND FLOOR	DS 9	LED TUBE LIGHT	2	20	8 HOURS
NIN ENE	NIN ENERGY INDIA PRIVATE LIMITED REPORT NO 1530	ORT NO 1530		Page 31 of 60			

OPERATING HOURS 8 HOURS WATTAGE 20 20 20 20 20 20 20 20 20 20 20 20 NO OF LIGHTS 15 2 9 3 ⊣ 7 1 7 7 4 $^{\circ}$ 2 4 9 4 4 7 7 2 7 LED TUBE LIGHT **TYPE OF LIGHT** LED TUBE LIGHT FALSE CEILING FALSE CEILING FALSE CEILING LIGHT LIGHT LIGHT **LIGHT DETAILS ROOM NUMBER 10** ROOM NUMBER 8 **ROOM NUMBER 2 ROOM NUMBER 3 ROOM NUMBER 4 ROOM NUMBER 5 ROOM NUMBER 6 ROOM NUMBER 9 DS PASSAGE AREA ROOM NUMBER 1 ROOM NUMBER 7** OCATION. DS 10 DT10 DT2 DT3 DT4 DT5 DT6 DT8 DT9 DT1 DT7 **GROUND FLOOR** GROUND FLOOR **GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR** GROUND FLOOR GROUND FLOOR **GROUND FLOOR** SECOND FLOOR SECOND FLOOR Third floor FLOOR NAME OF THE BLOCK OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK DELTA BLOCK** S. NO 120 122 123 124 125 126 130 132 133 134 135 136 138 139 140 141 121 127 128 129 131 137

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OPERATING HOURS 8 HOURS WATTAGE 20 20 20 20 20 20 20 NO OF LIGHTS 10 10 7 7 \vdash 7 7 7 7 7 7 7 7 7 \vdash 7 7 7 7 7 7 LED TUBE LIGHT **TYPE OF LIGHT** Page 33 of 60 **LIGHT DETAILS ROOM NUMBER 16 ROOM NUMBER 18 ROOM NUMBER 13 ROOM NUMBER 14 ROOM NUMBER 15 ROOM NUMBER 19 ROOM NUMBER 20 ROOM NUMBER 23 ROOM NUMBER 11 ROOM NUMBER 12 ROOM NUMBER 17 ROOM NUMBER 21 ROOM NUMBER 22 ROOM NUMBER 2 ROOM NUMBER 3 ROOM NUMBER 4 ROOM NUMBER 5 300M NUMBER 6 ROOM NUMBER 8 ROOM NUMBER 9 ROOM NUMBER 1 ROOM NUMBER 7** 2 COMMON REST PASSAGE AREA ROOM (MEN) LOCATION **GROUND FLOOR GROUND FLOOR GROUND FLOOR** GROUND FLOOR GROUND FLOOR **GROUND FLOOR GROUND FLOOR** FRIST FLOOR FLOOR NAME OF THE BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** S. NO 143 144 145 146 148 149 150 154 156 158 159 160 162 163 142 147 151 152 153 155 157 161 164

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OPERATING HOURS 8 HOURS WATTAGE 20 20 20 20 20 20 NO OF LIGHTS 16 7 7 7 ⊣ ∞ 2 7 7 7 7 7 7 7 7 7 7 7 2 7 7 LED TUBE LIGHT **TYPE OF LIGHT** Page **34** of **60 LIGHT DETAILS ROOM NUMBER 16 ROOM NUMBER 10 ROOM NUMBER 13** ROOM NUMBER 5 **ROOM NUMBER 6 ROOM NUMBER 10 ROOM NUMBER 11 ROOM NUMBER 12 ROOM NUMBER 13 ROOM NUMBER 14 ROOM NUMBER 15 ROOM NUMBER 11 ROOM NUMBER 12 ROOM NUMBER 2 ROOM NUMBER 3 ROOM NUMBER 4 ROOM NUMBER 8 ROOM NUMBER 9 ROOM NUMBER 17 ROOM NUMBER 1 ROOM NUMBER 7** 1 COMMON REST PASSAGE AREA **DINING HALL** ROOM (MEN) LOCATION SECOND FLOOR FRIST FLOOR FLOOR NAME OF THE BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** S. NO 168 170 172 173 174 175 176 177 178 179 180 182 183 184 185 186 188 166 169 171 181 187 167

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OPERATING HOURS 8 HOURS WATTAGE 20 20 20 20 20 20 NO OF LIGHTS 10 10 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 LED TUBE LIGHT **TYPE OF LIGHT** Page 35 of 60 **LIGHT DETAILS ROOM NUMBER 16 ROOM NUMBER 18 ROOM NUMBER 19 ROOM NUMBER 20 ROOM NUMBER 10 ROOM NUMBER 11 ROOM NUMBER 12 ROOM NUMBER 13 ROOM NUMBER 14 ROOM NUMBER 15 ROOM NUMBER 21 ROOM NUMBER 22 ROOM NUMBER 3 ROOM NUMBER 4 ROOM NUMBER 5 ROOM NUMBER 6 ROOM NUMBER 8 ROOM NUMBER 9 ROOM NUMBER 17 ROOM NUMBER 1 ROOM NUMBER 2 ROOM NUMBER 7** 2 COMMON REST PASSAGE AREA ROOM (MEN) LOCATION SECOND FLOOR Third floor FLOOR NAME OF THE BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** S. NO 192 193 195 196 198 199 200 203 204 205 206 207 208 210 190 191 194 197 201 202 209 211 212

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OPERATING HOURS 8 HOURS WATTAGE 20 20 20 20 20 20 20 20 20 20 20 20 20 LIGHTS NO OF 7 10 10 7 7 7 6 6 6 6 6 6 6 6 6 6 LED TUBE LIGHT **TYPE OF LIGHT** FALSE CEILING LIGHT LIGHT LIGHT LIGHT LIGHT LIGHT LIGHT LIGHT LIGHT **LIGHT DETAILS ROOM NUMBER 19 ROOM NUMBER 20 ROOM NUMBER 18 ROOM NUMBER 21 ROOM NUMBER 22** 2 COMMON REST PASSAGE AREA ROOM (MEN) LOCATION ZG10 ZG1 ZG3 ZG4 **ZG**2 99Z **ZG8** 69Z ZG2 **Z**67 SECOND FLOOR **GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR** GROUND FLOOR **GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR** SECOND FLOOR Third floor Third floor Third floor Third floor Third floor FLOOR NAME OF THE BLOCK OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK** ZEETA S. NO 216 214 215 217 218 219 220 221 222 223 224 225 226 228 229 230 227

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	WATTAGE OPERATING HOURS	20 8 HOURS	20 8 HOURS	20 8 HOURS	20 8 HOURS	20 8 HOURS	20 8 HOURS	20 8 HOURS	20 8 HOURS	20 8 HOURS	20 8 HOURS	20 8 HOURS	20 8 HOURS	20 8 HOURS	20 8 HOURS	20 8 HOURS	20 8 HOURS	20 8 HOURS	20 8 HOURS	20 8 HOURS	20 8 HOURS	20 8 HOURS
	NO OF WA'	6	o	o	6	2	2	2	4	11	2	2	2	2	2	2	2	2	2	2	2	2
S	TYPE OF LIGHT	FALSE CEILING LIGHT	FALSE CEILING LIGHT	FALSE CEILING LIGHT	FALSE CEILING LIGHT	LED TUBE LIGHT	LED TUBE LIGHT	LED TUBE LIGHT	LED TUBE LIGHT	LED TUBE LIGHT	LED TUBE LIGHT	LED TUBE LIGHT	LED TUBE LIGHT	LED TUBE LIGHT	LED TUBE LIGHT	LED TUBE LIGHT						
LIGHT DETAILS	LOCATION	ZG11	ZG12	ZG13	ZG14	ZG15	ZG16	ZG17	ZG18	PASSAGE AREA	MEN REST ROOM	WOMENS REST ROOM	ROOM NUMBER 1	ROOM NUMBER 2	ROOM NUMBER 3	ROOM NUMBER 4	ROOM NUMBER 5	ROOM NUMBER 6	ROOM NUMBER 7	ROOM NUMBER 8	ROOM NUMBER 9	ROOM NUMBER 10
	FLOOR	GROUND FLOOR	GROUND FLOOR	GROUND FLOOR	GROUND FLOOR	GROUND FLOOR	GROUND FLOOR	GROUND FLOOR	GROUND FLOOR	GROUND FLOOR	GROUND FLOOR	GROUND FLOOR	GROUND FLOOR	GROUND FLOOR	GROUND FLOOR	GROUND FLOOR	GROUND FLOOR	GROUND FLOOR	GROUND FLOOR	GROUND FLOOR	GROUND FLOOR	GROUND FLOOR
	NAME OF THE BLOCK	ZEETA	ZEETA	ZEETA	ZEETA	ZEETA	ZEETA	ZEETA	ZEETA	ZEETA	ZEETA	ZEETA	Sigma BLOCK	Sigma BLOCK	Sigma BLOCK	Sigma BLOCK	Sigma BLOCK	Sigma BLOCK	Sigma BLOCK	Sigma BLOCK	Sigma BLOCK	Sigma BLOCK
	S. NO	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251

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			LIGHT DETAILS				
S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	TYPE OF LIGHT	NO OF LIGHTS	WA.	WATTAGE
252	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 11	LED TUBE LIGHT	2	20	
253	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 12	LED TUBE LIGHT	2	20	
254	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 13	LED TUBE LIGHT	2	20	
255	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 14	LED TUBE LIGHT	2	20	
256	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 15	LED TUBE LIGHT	2	20	
257	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 16	LED TUBE LIGHT	2	20	
258	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 17	LED TUBE LIGHT	2	20	
259	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 18	LED TUBE LIGHT	2	20	
260	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 19	LED TUBE LIGHT	2	20	
261	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 20	LED TUBE LIGHT	2	20	
797	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 21	LED TUBE LIGHT	2	20	
263	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 22	LED TUBE LIGHT	2	20	
264	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 23	LED TUBE LIGHT	2	20	
265	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 24	LED TUBE LIGHT	2	20	
266	ALPHA BLOCK	GROUND FLOOR	2 WOMENS REAST ROOM	LED TUBE LIGHT	10	20	
267	ALPHA BLOCK	GROUND FLOOR	PASSAGE AREA	FALSE CEILING LIGHT	10	20	
268	ALPHA BLOCK	GROUND FLOOR	STAFF ROOMS	LED TUBE LIGHT	16	20	
269	ALPHA BLOCK	GROUND FLOOR	SRATT ROOM S	FALSE CEILING LIGHT	14	20	
270	ALPHA BLOCK	GROUND FLOOR	2 REST ROOM	LED TUBE LIGHT	5	20	
271	ALPHA BLOCK	FRIST FLOOR	PASSAGE AREA /STAFF ROOM	LED TUBE LIGHT	20	20	
272	ALPHA BLOCK	FRIST FLOOR	SOFTWARE ROOM	FALSE CEILING LIGHT	21	20	
L 2		7 F G C L C C C C C C C C C C C C C C C C C		00 30 00 0000			

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			LIGHT DETAILS				
S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	TYPE OF LIGHT	NO OF LIGHTS	WATTAGE	OPERATING HOURS
273	ALPHA BLOCK	FRIST FLOOR	2 REST ROOMS	LED TUBE LIGHT	2	20	8 HOURS
274	ALPHA BLOCK	SECOND FLOOR	PASSAGE AREA	LED TUBE LIGHT	2	20	8 HOURS
275	ALPHA BLOCK	SECOND FLOOR	ROOMS	FALSE CEILING LIGHT	53	20	8 HOURS
276	THETA BLOCK	Ground floor	DINING AREA AND LIBRARY	LED TUBE LIGHT	45	20	
777	THETA BLOCK	FRIST FLOOR	DINING AREA	LED TUBE LIGHT	27	20	

21.0 CONVENTIONAL FAN DETSILS

The conventional fan details area as follows.

			CEILING FAN DETAILS			
S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	NO OF FANS	WATTAGE	OPERATING HOURS
1	BETA BKLOCK	GROUND FLOOR	BG1	7	80	8 HOURS
2	BETA BKLOCK	GROUND FLOOR	BG2	4	80	8 HOURS
m	BETA BKLOCK	GROUND FLOOR	BG3	∞	80	8 HOURS
4	BETA BKLOCK	GROUND FLOOR	BG4	က	80	8 HOURS
S	BETA BKLOCK	GROUND FLOOR	BG5	2	80	8 HOURS
9	BETA BKLOCK	GROUND FLOOR	BG6	9	80	8 HOURS
7	BETA BKLOCK	GROUND FLOOR	BG8	1	80	8 HOURS
∞	BETA BKLOCK	GROUND FLOOR	BG9	П	80	8 HOURS
6	BETA BKLOCK	GROUND FLOOR	BG10	5	80	8 HOURS
10	BETA BKLOCK	GROUND FLOOR	BG11	1	80	8 HOURS

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OPERATING HOURS 8 HOURS 8 HOURS 8 HOURS 8 HOURS 8 HOURS 8 HOURS **8 HOURS** 8 HOURS **8 HOURS** 8 HOURS 8 HOURS 8 HOURS 8 HOURS 8 HOURS 8 HOURS WATTAGE 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 8 80 80 8 80 80 NO OF FANS 4 \vdash 7 7 7 2 9 9 7 7 7 9 9 / 9 9 4 4 2 \vdash \vdash 7 \vdash **CEILING FAN DETAILS** LOCATION BG16 BG12 BG13 BG15 **BF10 BF12 BF14 BF18 BF19** BF1 BF3 BF4 BF5 BF6 BF9 **BF11 BF13 BF17 BF20 BS3** BF2 BS1 BS2 BS4 **BS5 GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR** SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR FRIST FLOOR FLOOR NAME OF THE BLOCK **BETA BKLOCK BETA BKLOCK** BETA BKLOCK **BETA BKLOCK BETA BKLOCK BETA BKLOCK BETA BKLOCK BETA BKLOCK BETA BKLOCK** BETA BKLOCK **BETA BKLOCK BETA BKLOCK BETA BKLOCK** S. NO 12 13 14 15 16 18 19 20 21 22 24 25 26 27 29 30 31 32 33 11 17 35 34

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OPERATING HOURS 8 HOURS **8 HOURS** 8 HOURS **8 HOURS** 8 HOURS 8 HOURS 8 HOURS WATTAGE 80 80 80 80 80 8 80 80 80 80 80 80 80 80 80 80 80 80 80 8 8 NO OF FANS 9 4 9 2 9 9 4 ന 9 ∞ 9 9 4 \vdash / $^{\circ}$ 7 6 \vdash \vdash **CEILING FAN DETAILS** LOCATION BT13 **BT16 BS10** BS13 **BS14 BS16 BS18** BT10 **BS8 BS9** BS11 **BS12 BS17** BT2 **BT3** BT4 BT5 BT6 **BT9** BT11 **BT12 BT17** BS7 BT1 SECOND FLOOR Third floor FLOOR NAME OF THE BLOCK **BETA BKLOCK BETA BKLOCK** BETA BKLOCK **BETA BKLOCK BETA BKLOCK** S. NO 38 39 40 41 42 43 44 45 46 47 48 49 20 **51** 23 22 26 27 28 62 37 54

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OPERATING HOURS 8 HOURS 8 HOURS 8 HOURS 8 HOURS 8 HOURS 8 HOURS **8 HOURS** 8 HOURS **8 HOURS** 8 HOURS WATTAGE 8 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 8 80 NO OF FANS 10 13 က ന က 2 2 2 2 2 2 3 ⊣ \vdash m 2 $^{\circ}$ 2 2 2 Н **CEILING FAN DETAILS** LOCATION **DG15 DG16** DG18 **BT18 BT19** DG10 DG12 DG13 **DG14 DG17** BT20 **DG11** BT21 **BT22 BT23** DG1 DG2 DG3 DG4 DG5 99**0 DG7** DG8 DG9 DF1 **Ground floor Ground floor** Ground floor **Ground floor Ground floor** FRIST FLOOR Ground floor **Ground floor Ground floor Ground floor Ground floor** Third floor Third floor Third floor Third floor Third floor Third floor FLOOR NAME OF THE BLOCK **BETA BKLOCK DELTA BLOCK BETA BKLOCK BETA BKLOCK BETA BKLOCK** BETA BKLOCK **BETA BKLOCK DELTA BLOCK DELTA BLOCK** S. NO 75 **61** 62 63 64 **6**2 99 68 69 71 72 73 74 77 79 80 81 83 85 84

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OPERATING HOURS 8 HOURS **8 HOURS** 8 HOURS **8 HOURS** 8 HOURS WATTAGE 80 8 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 NO OF FANS 14 14 10 ∞ 9 4 7 ∞ 9 က 9 9 2 9 6 9 4 9 9 9 / ∞ **CEILING FAN DETAILS** LOCATION **DS10** DF2 DF6 DF8 DF9 DS3 DS4 DS5 DS6 DS8 DS9 DT1 DT4 DT5 DT6 DT9 DF7 DS1 DS2 DS7 DT2 **DT7** SECOND FLOOR **FRIST FLOOR** FRIST FLOOR Third floor FLOOR NAME OF THE BLOCK **DELTA BLOCK DELTA BLOCK** S. NO 103 104 105 106 108 109 110 100 101 102 107 66 88 89 90 91 93 94 92 96 98 87

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OPERATING HOURS 8 HOURS **8 HOURS** 8 HOURS WATTAGE 80 80 80 80 80 80 80 80 80 80 80 80 80 80 8 80 80 80 80 NO OF FANS က 3 $^{\circ}$ 3 3 $^{\circ}$ $^{\circ}$ 3 $^{\circ}$ $^{\circ}$ $^{\circ}$ ന က $^{\circ}$ $^{\circ}$ ന $^{\circ}$ m 3 **ROOM NUMBER 10 ROOM NUMBER 11 ROOM NUMBER 12 ROOM NUMBER 13 ROOM NUMBER 14 ROOM NUMBER 15 ROOM NUMBER 16 ROOM NUMBER 18 ROOM NUMBER 19 ROOM NUMBER 20 ROOM NUMBER 22 ROOM NUMBER 23 ROOM NUMBER 17 ROOM NUMBER 21 ROOM NUMBER 6 ROOM NUMBER 8 ROOM NUMBER 9 ROOM NUMBER 1 ROOM NUMBER 1 ROOM NUMBER 2 ROOM NUMBER 3 ROOM NUMBER 4 ROOM NUMBER 5 ROOM NUMBER 7 CEILING FAN DETAILS** LOCATION **GROUND FLOOR GROUND FLOOR** FRIST FLOOR Third floor FLOOR NAME OF THE BLOCK **OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK DELTA BLOCK** S. NO 113 114 115 116 119 124 125 126 130 135 111 112 117 118 120 121 122 123 127 128 129 131 132 133 134

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OPERATING HOURS 8 HOURS **8 HOURS** 8 HOURS **8 HOURS** 8 HOURS WATTAGE 80 80 80 80 80 8 8 80 80 80 8 8 80 80 80 80 80 80 NO OF FANS 18 ന ന നന 3 $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ \vdash $^{\circ}$ m $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ 3 **ROOM NUMBER 10** ROOM NUMBER 10 **ROOM NUMBER 11 ROOM NUMBER 12 ROOM NUMBER 13 ROOM NUMBER 11 ROOM NUMBER 12 ROOM NUMBER 9 ROOM NUMBER 5 ROOM NUMBER 6 ROOM NUMBER 8** ROOM NUMBER 9 **ROOM NUMBER 2 ROOM NUMBER 5 ROOM NUMBER 6 ROOM NUMBER 8 ROOM NUMBER 2 ROOM NUMBER 3 ROOM NUMBER 4** ROOM NUMBER 7 **ROOM NUMBER 3 ROOM NUMBER 4 ROOM NUMBER 7 ROOM NUMBER 1 DINING HALL CEILING FAN DETAILS** LOCATION SECOND FLOOR FRIST FLOOR FLOOR NAME OF THE BLOCK **OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK S. NO 138 140 144 145 146 147 148 149 155 156 158 136 137 139 141 142 143 150 151 152 153 154 157 159 160

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OPERATING HOURS 8 HOURS **8 HOURS** 8 HOURS **8 HOURS** 8 HOURS WATTAGE 80 80 80 80 80 80 80 80 8 8 80 80 80 80 80 80 80 80 8 80 80 80 80 NO OF FANS m m 3 $^{\circ}$ $^{\circ}$ 3 3 $^{\circ}$ 3 $^{\circ}$ $^{\circ}$ $^{\circ}$ ന က $^{\circ}$ 3 $^{\circ}$ m 3 3 **ROOM NUMBER 14 ROOM NUMBER 15 ROOM NUMBER 16 ROOM NUMBER 18 ROOM NUMBER 19 ROOM NUMBER 20 ROOM NUMBER 10 ROOM NUMBER 12 ROOM NUMBER 13 ROOM NUMBER 14 ROOM NUMBER 15 ROOM NUMBER 16 ROOM NUMBER 17 ROOM NUMBER 21 ROOM NUMBER 22 ROOM NUMBER 11 ROOM NUMBER 3 ROOM NUMBER 4 ROOM NUMBER 5 ROOM NUMBER 6 ROOM NUMBER 8 ROOM NUMBER 9 ROOM NUMBER 1 ROOM NUMBER 2 ROOM NUMBER 7 CEILING FAN DETAILS** LOCATION SECOND FLOOR Third floor FLOOR NAME OF THE BLOCK **OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK S. NO 165 170 173 174 175 176 178 179 180 161 162 163 164 166 167 168 169 171 172 177 181 182 183 184 185

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OPERATING HOURS 8 HOURS **8 HOURS** 8 HOURS **8 HOURS** 8 HOURS 8 HOURS 8 HOURS 8 HOURS 8 HOURS WATTAGE 80 80 80 80 80 80 80 80 80 80 80 80 8 8 80 80 80 80 80 8 80 80 NO OF FANS 3 9 9 9 6 $^{\circ}$ 9 9 9 9 9 $^{\circ}$ $^{\circ}$ $^{\circ}$ 4 4 4 2 \vdash 4 **ROOM NUMBER 17 ROOM NUMBER 18 ROOM NUMBER 19 ROOM NUMBER 20 ROOM NUMBER 21 ROOM NUMBER 22** PASSAGE AREA **CEILING FAN DETAILS** LOCATION ZG18 ZG13 ZG15 ZG16 ZG10 ZG12 ZG14 ZG17 ZG11 ZG1 ZG3 **ZG4 ZG**2 99Z ZG7 **ZG8** 69Z ZG2 **GROUND FLOOR GROUND FLOOR** GROUND FLOOR Third floor Third floor Third floor Third floor Third floor Third floor FLOOR NAME OF THE BLOCK **OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK** OMEGA BLOCK ZEETA S. NO 188 190 194 195 199 203 204 205 206 208 186 187 189 191 192 193 196 197 198 200 201 202 207 209

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			CEILING FAN DETAILS			
S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	NO OF FANS	WATTAGE	OPERATING HOURS
211	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 1	3	80	8 HOURS
212	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 2	က	80	8 HOURS
213	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 3	3	80	8 HOURS
214	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 4	3	80	8 HOURS
215	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 5	3	80	8 HOURS
216	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 6	က	80	8 HOURS
217	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 7	က	80	8 HOURS
218	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 8	Н	80	8 HOURS
219	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 9	2	80	8 HOURS
220	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 10	3	80	8 HOURS
221	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 11	က	80	8 HOURS
222	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 12	3	80	8 HOURS
223	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 13	3	80	8 HOURS
224	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 14	3	80	8 HOURS
225	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 15	3	80	8 HOURS
526	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 16	3	80	8 HOURS
722	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 17	3	80	8 HOURS
228	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 18	3	80	8 HOURS
229	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 19	က	80	8 HOURS
230	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 20	3	80	8 HOURS
231	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 21	3	80	8 HOURS
232	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 22	3	80	8 HOURS
233	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 23	Н	80	8 HOURS
234	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 24	Н	80	8 HOURS
235	ALPHA BLOCK	GROUND FLOOR	STAFF ROOMS	17	80	8 HOURS

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			CEILING FAN DETAILS			
S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	NO OF FANS	WATTAGE	WATTAGE OPERATING HOURS
236	ALPHA BLOCK	FRIST FLOOR	STAFF ROOMS	18	80	8 HOURS
237	THETA BLOCK	Ground floor	DINING AREA AND LIBRARY	39	80	8 HOURS
238	THETA BLOCK	FRIST FLOOR	DINING AREA	18	80	8 HOURS

22.0 AIR CONDITIONER DETAILS

The air conditioner details area are follows.

			AIR CONDITIONER DETAILS	NER DET	AILS		
S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	MAKE	MODEL (Split / Window)	NO OF AC'S	OPERATING HOURS
1	BETA BLOCK	GROUND FLOOR	SEVER ROOM	HITACHI	SPILT	1	8 HOURS
7	BETA BLOCK	FRIST FLOOR	PLACEMENT OFFICE	HITACHI	SPILT	1	8 HOURS
က	BETA BLOCK	FRIST FLOOR	MEETING ROOM	CARRIER	DUCTED A/C (5 TON)	1	8 HOURS
4	BETA BLOCK	FRIST FLOOR	MEETING ROOM	CARRIER	DUCTED A/C (8 TON)	1	8 HOURS
2	DELTA BLOCK	GROUND FLOOR	PRINCIPAL ROOM	HITACHI	SPILT	1	8HOURS
9	DELTA BLOCK	GROUND FLOOR	COMPUTER LAB	HITACHI	SPILT	1	8HOURS
7	DELTA BLOCK	GROUND FLOOR	COMPUTER LAB	HITACHI	SPILT	1	8HOURS
∞	DELTA BLOCK	THIRD FLOOR	MEETING ROOM	CARRIER	DUCTED A/C (5 TON)	1	8HOURS
6	ZEETA BLOCK	GROUND FLOOR	LAB	HITACHI	SPILT	1	8HOURS
10	ALPHA BLOCK	GROUND FLOOR	PRINCIPAL ROOM	HITACHI	SPILT	1	8HOURS
11	ALPHA BLOCK	GROUND FLOOR	STAFF ROOM	HITACHI	SPILT	1	8HOURS
12	ALPHA BLOCK	GROUND FLOOR	STAFF ROOM	HITACHI	SPILT	1	8HOURS
13	ALPHA BLOCK	FRIST FLOOR	SEVER ROOM	HITACHI	SPILT	Н	8HOURS
14	ALPHA BLOCK	FRIST FLOOR	STAFF ROOM	HITACHI	SPILT	1	8HOURS
15	ALPHA BLOCK	FRIST FLOOR	STAFF ROOM	HITACHI	SPILT	1	8HOURS

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			AIR CONDITIONER DETAILS	NER DET	TAILS		
S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	MAKE	MODEL (Split / Window)	NO OF AC'S	OPERATING HOURS
16	ALPHA BLOCK	FRIST FLOOR	SOFTWARE	Pl	SPILT	1	8HOURS
17	ALPHA BLOCK	FRIST FLOOR	SOFTWARE	WESTER	SPILT	1	8HOURS
18	ALPHA BLOCK	FRIST FLOOR	SOFTWARE	WESTER	SPILT	1	8HOURS
19	ALPHA BLOCK	FRIST FLOOR	SOFTWARE	HITACHI	SPILT	1	8HOURS
20	ALPHA BLOCK	FRIST FLOOR	SOFTWARE	general	SPILT	1	8HOURS
21	ALPHA BLOCK	FRIST FLOOR	STAFF ROOM	HITACHI	SPILT	1	8HOURS
22	ALPHA BLOCK	SECOND FLOOR	CHIRMAN SIR ROOM	CARRIER	SPILT	1	8HOURS
23	ALPHA BLOCK	SECOND FLOOR	CHIRMAN SIR ROOM	CARRIER	SPILT	1	8HOURS
24	ALPHA BLOCK	SECOND FLOOR	COO SIR ROOM	CARRIER	SPILT	1	8HOURS
25	ALPHA BLOCK	SECOND FLOOR	DINING HALL	CARRIER	SPILT	1	8HOURS
2 6	ALPHA BLOCK	SECOND FLOOR	GUEST ROOM	CARRIER	SPILT	1	8HOURS

23.0 WALL MOUNTED FAN DETAILS

The wall mounted fan details are as follows.

	WALL MOUNTED FAN DETAILS						
S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	NO OF FANS	WATTAGE	OPERATING HOURS	
1	ALPHA	GROUND FLOOR	STAFF ROOM 1	1	120	8 HOURS	
2	ALPHA	GROUND FLOOR	STAFF ROOM 2	1	120	8 HOURS	
3	ALPHA	GROUND FLOOR	STAFF ROOM 3	1	120	8 HOURS	
4	ALPHA	GROUND FLOOR	STAFF ROOM 4	1	120	8 HOURS	
5	ALPHA	GROUND FLOOR	STAFF ROOM 5	1	120	8 HOURS	
6	ALPHA	FRIST FLOOR	SEVER ROOM	1	120	8 HOURS	
7	ALPHA	FRIST FLOOR	SOFTWARE ROOM	8	120	8 HOURS	
8	ALPHA	SECOND FLOOR	LAB	4	120	8 HOURS	
9	ZEETA BLOCK	GROUND FLOOR	STAFF ROOM 1	1	120	8 HOURS	
10	ZEETA BLOCK	GROUND FLOOR	STAFF ROOM 2	1	120	8 HOURS	

24.0 EXECUTIVE SUMMARY

S. No	Energy Efficiency Measures	Estimate annual Energy Savings, kWh/Annum	Estimated Investment, INR	Monetary Savings, INR	Simple payback Period, Months
1	Replace existing T8 36 Tube light 36W to 18W LED Light	11,232	1,24,800	71,323	21
2	Replace existing 1018 Nos of 80W Ceiling fan to 30W Energy efficient BLDC Fan	101800	3563000	6,46,430	66
3	Replace existing 20 Nos of 120W Wall mounted fan to 30W Energy efficient BLDC Fan	3,600	70,000	22,860	37
	Total	1,16,632	37,57,800	7,40,613	41

Annual Electrical Energy consumption, kWh/Annum	3,18,425
Annual Electrical Energy Savings, kWh/Annum	116632
Electrical Energy Savings, %	36.6

25.0 ENERGY CONSERVATIVE MEASURES

25.1 Replace existing Conventional fan to BLDC Fan

Observation:

During audit it was observed that conventional ceiling fans were used for ventilation purposes.

Recommendation:

It is recommended to replace those conventional ceiling fans with Energy efficient BLDC fans to observe the following energy savings.

Estimated Savings:

Replace existing Conventional fan to BLDC Fan				
Description	Units	Values		
Quantity of existing Conventional fan	Nos	1,018		
Wattage of Conventional fan	W	80		
Present operating hours	Hours/Annum	2,000		
Average unit cost	INR/kWh	6.35		
Energy Consumption by existing Conventional fan	kWh/Annum	1,62,880		
Wattage of BLDC Fan	W	30		
Energy Consumption by BLDC Fan	kWh/Annum	61,080		
Cost of one BLDC Fan	INR	3,500		
Energy savings	kWh/Annum	1,01,800		
Cost Savings	INR/Annum	6,46,430		
Investment	INR	35,63,000		
Payback Period	Months	66		

25.2 Replace existing Wall mounted fan to BLDC Fan

Observation:

During audit it was observed that conventional wall mounted fans were used for ventilation purposes.

Recommendation:

It is recommended to replace the conventional fan to BLDC fan to reduce energy consumption.

Estimated Savings:

Replace existing Wall mounted fan to BLDC Fan				
Description	Units	Values		
Quantity of existing Wall mounted fan	Nos	20		
Wattage of Wall Mounted fan	W	120		
Present operating hours	Hours/Annum	2,000		
Average unit cost	INR/kWh	6.35		
Energy Consumption by existing Wall mounted fan	kWh/Annum	4,800		
Wattage of BLDC Fan	W	30		
Energy Consumption by BLDC Fan	kWh/Annum	1,200		
Cost of one BLDC Fan	INR	3,500		
Energy savings	kWh/Annum	3,600		
Cost Savings	INR/Annum	22,860		
Investment	INR	70,000		
Payback Period	Months	37		

25.3 Replace Existing CFL light to LED light.

Observation:

During audit it was observed that few T8 36 Tube light was used for illumination purpose. T8 36 Tube light consumes high power than LED Lights.

Recommendation:

It is recommended to replace those T8 36 Tube lights with LED lights for better lumens and to lower the power consumption. The lumens of T8 36 Tube light are 63 per watt whereas the lumens of LED light are 120 per watt.

Estimated Savings:

Replace existing T8 36 Tube light to LED Light				
Description	Units	Values		
Quantity of existing T8 36 Tube light	Nos	312		
Wattage of T8 36 Tube light	W	36		
Present operating hours	Hours/Annum	2,000		
Average unit cost	INR/kWh	6.35		
Energy Consumption by existing T8 36 Tube light Lights	kWh/Annum	22,464		
Wattage of LED	W	18		
Energy Consumption by LED	kWh/Annum	11,232		
Cost of one LED	INR	400		
Energy savings	kWh/Annum	11,232		
Cost Savings	INR/Annum	71,323		
Investment	INR	1,24,800		
Payback Period	Months	21		

26.0 ACCREDITED ENERGY AUDITOR CERTIFICATES



BUREAU OF ENERGY EFFICIENCY

Examination Registration No. EA-3201

Accreditation Registration No. AEA-0023



Certificate of Accreditation

The certificate is subject to the provisions of the Bureau of Energy Efficiency (Qualifications for Accredited Energy Auditors and Maintenance of their List) Regulations, 2010.

This certificate shall be valid until it is cancelled under regulation 9 of the Bureau of Energy Efficiency (Qualifications for Accredited Energy Auditors and Maintenance of their List) Regulations, 2010

On cancellation, the certificate of accreditation shall be surrendered to the Bureau within fifteen days from the date of receipt of order of cancellation.

Your name has been entered at AEA No...0023.. in the register of list of accredited energy auditors. Your name shall be liable to be struck out on the grounds specified in regulation 8 of the Bureau of Energy Efficiency (Qualifications for Accredited Energy Auditors and Maintenance of their List) Regulations, 2010.

Given under the seal of the Bureau of Energy Efficiency, Ministry of Power, this26th day of May 2014

Secretary, Bureau of Energy Efficiency

New Delhi





In association with



THIS IS TO CERTIFY THAT

B. Senthil Kumar

has successfully completed a course approved by the Institute of Environmental Management & Assessment in

ADVANCED EMS AUDITOR (ISO 14001:2004)

(achieving an overall mark of 75%)

13th to 17th October 2008

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Gooff His

Signed for igms

Swiso India Private Limited 507 Pragati Tower • 26 Rajendra Place New Delhi • 110 008 • (India) Tel: +91-11-41539720 Fax: +91-11-41539721 email: info@swisoindia.com

email: info@swisoindia.com Web: www.swisoindia.com

Signed for Swiso India Private Limited

IQ - EMS42357

CERTIFICATE NUMBER

iqms Course No. IQM/EMS4/07/308/UK approved by JEMA







F.No.09/06/07/IMPL/ECBC/5939-6028

August 21, 2019

Shri Praveen Kumar Yadav Environmental Design Solution Pvt Ltd A-4/3, Basement, Vasant Vihar, New Delhi - 110057

Subject: Empanelment of ECBC Expert Professional

Dear Shri Praveen,

This has reference to your application for empanelment of ECBC Expert Professional for implementing the Energy Conservation Building Code (ECBC). We are pleased to inform that you have been shortlisted to act as the ECBC Expert professional for helping in building technical capacity, compliance with code and effective implementation of it. The validity of the empanelment is for two years or till the creation of a pool of Certified Energy Auditors (Buildings), whichever is earlier. A brief on roles and responsibilities of professionals will be as per the prevailing ECBC Rules, 2018, is enclosed herewith.

It may be further noted that "the professional working with ECBC Cell in States/UTs shall not work on the projects for the same State/UT during their tenure as a part of ECBC cells and after one year from the last date of their incumbent in the ECBC cell. Such professionals may provide technical assistance in other State/UT for other projects."

With best regards.

Yours sincerely,

(Saurabh Diddi)

Director

Encl: As above



Certificate of Compliance

This is to certify that

NIN Energy India Private Limited

JUSA Complex, New No 47, Old No 21/2, Ponniamman Koil Street, Kottur, Chennai - 600085 (Tamil Nadu), India.

has been assessed by RSI and found to comply with the requirements of

ISO/IEC 17020:2012

Operation of various types of bodies performing inspection - Requirements

for the following activities:

Mandatory Energy Audit, Environment Audit, Green Audit, PAT Measurement and Verification (M&V),
Power Quality Audit, Infrared Thermography, Electrical Safety Audit, Energy Management Training,
Energy Management System, Measurement & Verification, Green Building Services,
Renewable Energy Services, Carbon Foot Printing and Water Audit

Certificaat Nummer / Certificate No. : IE-BV-2207-5410

Datum Van Publicatie / Date of Issue: 27/07/2022 Vervaldatum / Date of Expiry : 26/07/2025 Ist Annual surveillance audit due on: 26/06/2023

IInd Annual surveillance audit due on: 26/06/2024

Royal Stancert B.V.

Certificaat Nummer / Certificate No. : Q-xx-xxxx-xxxx

Regd. Office - Joop Geesinkweg 701, 1114 AB Amsterdam. The Netherlands. (KvK-Nummer 71431802 / RSIN 858713159 - Rechtsvorm - Besloten Vennootschap).

This certificate remains the property of Royal Stancert B.V. and must be returned whenever demanded. The validity of this certificate can be verified at http://www.royalstancert.org. Royal Stancert B.V. is an independent system, product and personal assessment body accredited by Global Euro Accreditation Centre, Georgia. (GCIN - 654). Email: info@royalstancert.org

Doule.

Director (Certification)





Approved by AICTE, Affiliated to Anna University Accredited by NAAC | Recognized by UGC with 2(F)

Academic Year 2022-2023



REPORT ON ENERGY, ENVIRONMENT AND GREEN AUDIT



PERI INSTITUTE OF TECHNOLOGY

PERI KNOWLEDGE PARK, MANNIVAKKAM, WEST
TAMBARAM, CHENNAI- 600 048.

AUDIT CONDUCTED AND REPORT PREPARED BY



NIN ENERGY INDIA PRIVATE LIMITED
JUSA COMPLEX, NEW NO 47,OLD NO 21/2
PONNIAMMAN KOIL STREET, KOTTUR,
CHENNAI-600085
TAMILNADU, INDIA

JANUARY 2023

Dr. R. PALSON KENNEDY, M.E., Pho PRINCIPAL PERI INSTITUTE OF TECHNOLOGY

wannivakkam, Chennai - n

ACKNOWLEDGEMENT

We thank management of PERI INSTITUTE OF TECHNOLOGY for awarding the Energy, Environment and Green Audit study at their facility at PERI Knowledge Park, Mannivakkam, West Tambaram, Chennai – 600 048 to NIN Energy India Private Limited. This report is the result of Energy Audit conducted at PERI INSTITUTE OF TECHNOLOGY from 20/01/2023 to 21/01/2023.

We wish to thank the management of PERI INSTITUTE OF TECHNOLOGY for the support during the audit and for successful completion of the audit.

For NIN ENERGY INDIA PRIVATE LIMITED

(B. SENTHILKUMAR)

ACCREDITED ENERGY AUDITOR (AEA 023)

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ABBREVIATIONS

EE	Energy Efficiency
Dept	Department
EER	Energy Efficiency Ratio
INR	Indian Rupees
KLD	Kilo Litre per day
kWh	Kilo Watt hour
LED	Light Emitting Diode
LPG	Liquified petroleum gas
tCO2	Tonne of Co2

1.0 INTRODUCTION ABOUT GREEN AUDIT

Green Audit is the process of assessing the environmental impact of an organization, process, project, product, etc.

Green Audit is assigned to the Criteria 7 of NAAC, National Assessment and Accreditation Council which is a self-governing organization of India that declares the institutions as Grade A, Grade B or Grade C according to the scores assigned at the time of accreditation.

2.0 OBJECTIVES

In recent time, the Green Audit of an institution has been becoming a paramount important for self-assessment of the institution which reflects the role of the institution in mitigating the present environmental problems.

The college has been putting efforts to keep our environment clean since its inception. Therefore, the purpose of the present green audit is to identify, quantify, describe, and prioritize framework of Environment Sustainability in compliance with the applicable regulations, policies and standards.

The main objectives of carrying out Green Audit are:

- To map the Geographical Location of the college
- To document the floral and faunal diversity of the college
- To record the meteorological parameter of college
- To document the ambient environmental condition of weather, air, water, and noise of the college
- To document the waste disposal system
- To estimate the Energy requirements of the college
- To report the expenditure on green initiatives during the last five years

3.0 ABOUT THE COLLEGE / UNIVERSITY

PERI Institute of Technology (PERI IT) was established in 2010 by the PERI Educational and Charitable Trust with the objective of providing quality technical education. The Institute is built at Mannivakkam, Chennai in a sprawling area of 15 acres replete with A/C classrooms, well equipped labs, A/C transport, cafeteria, and a vast library.

PERI IT offers both B.E. and M.E. courses and is recognized as an institution offering technical education by AICTE, New Delhi. It is affiliated to Anna University of Technology, Chennai.

GENESIS

The PERI Educational and Charitable Trust was founded in 2007. The vision of the trust is to provide a world class nodal centre of education where academics, communication, comprehension, visualization, practical application, and leadership skills are imparted through encouraging research, training, and development in technical and non-technical areas.

As part of its vision, the trust established PERI Institute of Technology in 2010 with B.E. courses in Mechanical, Civil, Computers and EEE. In 2011, B.E. ECE was introduced. M.E. Applied Electronics and M.E. Computer Science were added in 2012. M.E. Power Electronics & Drives and M.E. Communication Systems were introduced in 2014.

PERI IT is the brainchild of Mr. Saravanan Periasamy, the founding President & CEO of PERI Software Solutions Inc., a leading multinational IT Consulting and Services Company based in USA and the Chairman of the PERI Educational and Charitable Trust. He is the source of inspiration and the pathfinder for this institution.

ADMINISTRATIVE

PERI IT is administered by a governing council which comprises of representatives of the PERI Educational & Charitable Trust, representatives of the State Government, the Anna University of Technology, Chennai, the All-India Council of Technical Education, New Delhi and eminent scholars and industrialists. The Governing Council is responsible for planning and monitoring all academic and administrative activities of PERI IT. The day-to-day management is conducted by an academic and administrative set up helmed by Mr. Saravanan Periasamy.

4.0 ABOUT NIN ENERGY INDIA PRIVATE LIMITED

NIN Energy India Private Limited is providing Energy Related services like Energy Audit, Power Quality Audit, Infrared Thermography, Thermal Audit, PAT Monitoring and Verification Audit, PAT Consultancy, Green Building Commissioning, Electrical Safety Audit, Internet of Things, Carbon Foot Printing, etc. We have experienced team and helping the customers to manage and reduce their energy consumption.

We are providing complete Energy Services under one roof at a competitive price. Our team members are having more than 10 years of experience in Energy, Renewable Energy and Environmental Engineering with good Academic background.

Our Team Strength

- Accredited Energy Auditor by Bureau of Energy Efficiency, Government of India
- Certified Energy Auditors by Bureau of Energy Efficiency, Ministry of power
- Certified Measurement and Verification Professionals (CMVP) by EVO
- Certified Level II Thermographer
- Enlisted with Tamil Nādu Energy Development Agency (TEDA) as a system Integrator for Solar PV systems.
- Lead Auditors for ISO 50001 (Energy Management System)
- Lead Auditors for ISO 14064 (Green House Gas inventory and verification)
- Lead Auditors for ISO14000 (Environmental Management System)

4.1 AUDIT TEAM

The NIN Energy India private Limited team did the green audit assessment. Team details are as follows.

Name	Designation
Mr. B Senthil Kumar	Accredited Energy Auditor
Mr. T Karthikeyan	Certified Energy Auditor
Mr. S Senthamil Selvan	Sr. Engineer
Mr. S Harishragavendhar	Sr. Engineer

4.2 INSTRUMENTS USED FOR THE AUDIT

The NIN Energy India private Limited team did the green audit assessment. Instruments used for audit are as follows.

S. No	Name of the instrument
1	Air quality meter
2	Noise meter
3	Lux meter
4	Thermal Imager
5 Clamp meter	

5.0 LOCATION OF THE INSTITUTION

Latitude

12.8859° N

Longitude

80.0608° E

6.0 GEOGRAPHICAL LOCATION WITH CAMPUS MAP IN SCALE

Land use data

CATEGORIES OF LAND USE	INDEX
Alpha Block	6117 Sq. ft
Zeta Block	23319 Sq. ft
Omega Block	12912 Sq. ft
Sigma Block	12912 Sq. ft
Beta Block	14463 Sq. ft
Delta Block	12143 Sq. ft
Theta Block	5159 Sq. ft
Plantation Area	206183 Sq. ft
Total Area	272.49 m ²

7.0 ENVIRONMENTAL AUDIT

Carbon footprint is the total sum of greenhouse gases (GHG) emission caused by an organization, event, product, or person. As we are aware, the increasing concentration of GHGs in the atmosphere can accelerate climate change and global warming, it is very necessary to measure these emissions from our day-to-day activities. The first step towards managing GHG emissions is to measure them. There are some standards and guidelines to measure GHG emissions like GHG protocol, ISO 14064, the more comprehensive one Life Cycle Assessment (LCA), and market-based mechanisms. Out of them, ISO 14064 is an offset protocol and independent, voluntary GHG project accounting standard helps to quantify GHG emission of the organization, event, product, or person.

Our day-to-day activities are dependent on electricity which is mostly coming from coal-based power plants, Diesel and Petrol for our vehicles and LPG for cooking in our kitchen. All the energy we use is derived from these fossil fuels which are GHG intensive. The following Petrol, Diesel, and LPG.

Floristic status of the institution:

The Current situation of planted trees are as follows:

Type of Trees	Total no of Trees
No of matured trees (Age more than 10 years)	157
No of Semi matured trees (Age below 10 years)	1527
No of plants/herbs/Shrubs	440
No of medicinal plants	2
Any other plants details if any	6
Total	2132

Carbon absorption by flora in the Institution

Carbon absorption capacity of one matured tree = 6.8 kg of CO2. Carbon absorption capacity of one full grown tree = 3.4 kg of CO2. In bushes it absorbs an average of 200 g of CO2. The carbon absorption capacity of a 10-sq.ft. area of lawn is 1 g CO2.

- 1. Therefore, the carbon absorption capacity of 157 matured trees in the campus of the Institution ($157 \times 6.8 \text{ kg CO2/Annum}$) = 1067 kg of CO2/Annum.
- 2. The carbon absorption capacity of 1527 semi-grown trees in campus of 1527 \times 3.4 kg CO2/Annum) = 5192 kg of CO2/Annum.

NIN ENERGY INDIA PRIVATE LIMITED REPORT NO 1530

3. There are 440 bushes of various species being raised in the gardens of the Institution, total carbon absorption was calculated to be $440 \times 200 \text{ g CO2/Annum}$) = 88 kg of CO2/Annum The grand total of carbon absorption by the flora in the campus is 6347 kg per year.

CO2 REDUCTION MEASURES:

Energy Saving measures	CO2 reduction, Tons/Annum
Replace existing Conventional fan to BLDC Fan	1.06
Replace existing Wall mounted fan to BLDC Fan	103.84
Replace existing CFL to LED Light	3.67
Total	108.57

Net Carbon emission of the campus

Description	Unit	Values
Carbon emitted due to the energy consumption in the campus	tCO2 /year	298.10
Carbon absorption by mature trees, semi mature trees, bushes, and lawns	tCO2 /year	-63.47
Net carbon emission of the campus	tCO2 /year	234.63
Carbon reduction opportunities by energy saving projects	tCO2 /year	126.06

8.0 GREEN AUDIT

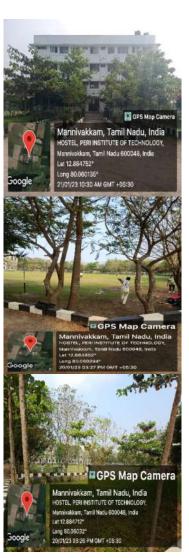
The list of tree species available in site

S. No	Botanical Name	Common Name	Numbers	
1.	Azedaraches indica	Neem Tree	25	
2.	Albizia lebbeck	Rain tree	15	
3.	Tectona grandis Linn.	Teak	20	
4.	Grevillea robusta	Silver Oak	20	
5.	Acacia arabica	Black catechu	20	

9.0 THE INSTITUTIONAL INITIATIVES FOR GREENING THE CAMPUS ARE AS FOLLOWS







10.0 LAND USE ANALYSIS

GENERAL OVERVIEW OF THE CONCEPT OF LANDUSE Land use refers to man's activities and the various uses which are carried on and derived from land. Viewing the earth from space, it is now very crucial in man's activities on natural resource. In situations of rapid changes in land use, observations of the Earth from space give the information of human activities and utilization of the landscape. Remote sensing and GIS techniques are now providing new tools for advanced land use mapping and planning. The collection of remotely sensed data facilitates the synoptic analyses of earth system, functions, patterning, and change in the local, regional as well as at global scales over time. Satellite imagery particularly is a valuable tool for generating land use map.

11.0 LAND USE (BUILT UP AREA) ANALYSIS

S. No	Name of the Building	Year of Construction	No of Rooms	No. Of Labs
1	Alpha Block	2010	11	5
2	Beta Block	2010	36	27
3	Delta Block (Ground Floor+2)	2010	45	3
4	Delta Block (3rd Floor)	2013	45	3
5	Theta Block	2010	Canteen a	and Library
6	Omega Block (G.F)	2010	87	Days Hastal
7	Omega Block (first to third)	2014	67	Boys Hostel
8	Sigma Block (GF)	2015	24	Girls Hostel
9	Zeta Block (GF)	2016	11	6
10	Driver & Security Cabin	2011	1	0

12.0 STAFFS AND STUDENTS' DETAILS

The staff and student details are as follows.

No of student's details	1048
No of Teaching staff	95
No of Non-Teaching staff	25

13.0 TREE DIVERSITY OF THE COLLEGE/ UNIVERSITY

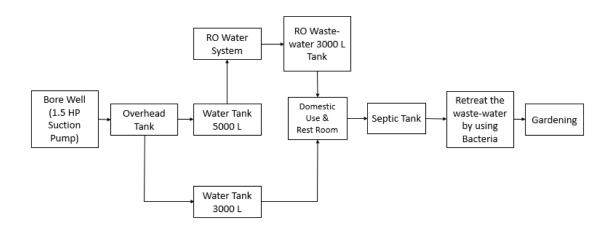
The list of tree species available in site

S. No	Botanical Name	Common Name	Numbers
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2.	Albizia lebbeck	Rain tree	15
3.	Tectona grandis Linn.	Teak	20
4.	Grevillea robusta	Silver Oak	20
5.	Acacia arabica	Black catechu	20

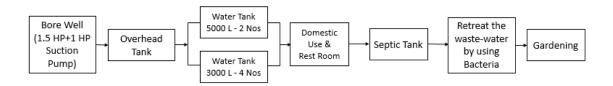
14.0 WATER AUDIT

14.1 DIFFERENT SOURCES OF WATER AND QUANTITY RECEIVED ON MONTHLY BASIS AND AREAS OF UTILIZATION

BETA BLOCK WATER RESOURCE LAYOUT



OMEGA BLOCK WATER RESOURCE LAYOUT

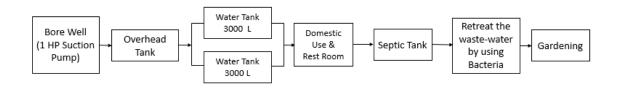


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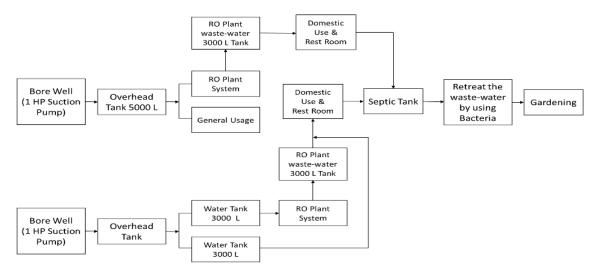
SIGMA BLOCK WATER RESOURCE LAYOUT



ZETA BLOCK WATER RESOURCE LAYOUT



DELTA BLOCK WATER RESOURCE LAYOUT



ALPHA BLOCK WATER RESOURCE LAYOUT



NIN ENERGY INDIA PRIVATE LIMITED REPORT NO 1530

S. No	Parameters	Response
1	Source of water	GROUND SIDE WATER
2	No of Wells	2
3	No of bore wells used	7
4	No of motors used	8
5	Overall average water consumption in the institution per day (in litres)	1,02000 LITES
6	Average drinking water consumption in the hostel per day (in litres)	1,200 LITES
7	Average drinking water consumption in the college per day (in litres)	5,700 LITES
8	Average Water consumption for washroom per day (in litres)	45,000 LITES
9	Average Water consumption for gardening per day (in litres)	50,000 LITES

COOKING

LPG CYLINDER					
S. No	Description	Details			
1	No of students in a hostel	404			
2	8 PER WEEK				
3	Average LPG cylinder usage per month	32			
4	Average LPG cylinder usage per Year	384			
5	Cost of one LPG cylinder	1,700 RS (19 KGS)			
6	Food wasted by students/staff per day?	160 KG PER DAY			

REST ROOM (TOILETS)

	HYGIENIC MEASURES					
S. No	Description	Details				
1	No of rest rooms available in the campus	32 NOS				
2	Availability of lighting and ventilation facilities?	YES				
3	Frequency of cleaning the rest rooms per day / week?	PER DAY ONES				

14.2 WATER CONSERVATION FACILITIES AVAILABLE IN THE INSTITUTION

14.2.1 Rainwater harvesting



14.2.2 Borewell /Open well recharge



15.0 TYPES OF DEGRADABLE AND NON-DEGRADABLE WASTE

Relevant documents like agreements/ MoUs with Government and other approved agencies Geotagged photographs of the facilities.

16.0 LUX LEVEL

The lux level survey is carried out in various location of campus and details are as follows.

S. No	Block	Floor	Location	Average Lux level	Recommended lux level as per standard
1	BETA	Ground floor	BG-3_ Manufacturing technology	87	300
2	BETA	Ground floor	Engines lab and Thermal lab	187	300
3	BETA	Ground floor	BG-1_ Electrical machines lab	100	300
4	BETA	Ground floor	Engineering practical lab (Mechanical)	79	300
5	BETA	Ground floor	Gents rest room	77	100
6	BETA	Ground floor	Hydraulics' and FM Lab	102	300
7	BETA	Ground floor	Mechanical HOD room	133	300
8	BETA	Ground floor	CSE Project lab	227	300
9	BETA	First floor	BF-8	292	300
10	BETA	First floor	Project lab	80	300
11	BETA	First floor	BF-4_ Microprocessor lab	96	300
12	BETA	First floor	Conference hall	134	300
13	BETA	Second floor	BS-7_ Tutorial room	99	300
14	BETA	Second floor	Communication lab	500	300
15	BETA	Third floor	IOT Lab	391	300
16	BETA	Third floor	Classroom	322	300
17	DELTA	Ground floor	Classroom	140	300
18	DELTA	Ground floor	Computer science lab	167	300
19	DELTA	Ground floor	Staff room	113	300
20	DELTA	First floor	DF-3	100	300
21	DELTA	First floor	DF-3	213	300
22	DELTA	First floor	DF-1_ Staff room	213	300
23	DELTA	First floor	Chemistry lab	224	300
24	DELTA	First floor	DF-6_ Physics lab	134	300
25	DELTA	Second floor	DS-10_ Classroom	127	300
26	DELTA	Second floor	Lecture hall	196	300
27	DELTA	Third floor	DT-7 classroom	216	300
28	DELTA	Third floor	DT-1 Classroom	160	300
29	THETA	Ground floor	Library	209	300
30	THETA	First floor	Canteen	261	300

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S. No	Block	Floor	Location	Average Lux level	Recommended lux level as per standard
31	ZETA	Ground floor	Classroom	286	300
32	ZETA	Ground floor	Classroom	274	300
33	ZETA	Ground floor	Lab-1	561	300
34	ZETA	Ground floor	Lab-2	521	300
35	ZETA	Ground floor	Lab-4	297	300
36	ZETA	Ground floor	Lab-5	228	300
37	OMEGA	Ground floor	Boys hostel_ Rooms	201	200
38	OMEGA	Ground floor	Boys hostel_ Canteen	91	200
39	ALPHA	Ground floor	Waiting hall	49	300
40	ALPHA	Ground floor	Admin office	39	300
41	ALPHA	Ground floor	Lab	132	300
42	ALPHA	Ground floor	Classroom	81	300
43	GAMMA	Ground floor	Ladies hostel_ Rooms	113	200
44	GAMMA	Ground floor	Ladies hostel_ Rooms	213	200

Remarks:

It is observed that over all lux level is good in campus. Only few areas lux level needs to be improved by adding addition light.

17.0 AIR QUALITY OF THE COLLEGE

The Air (Prevention and Control of Pollution) Act 1981 was enacted by the Central Government with the objective of arresting the deterioration of air quality. The Air (Prevention and Control of Pollution) Act 1981 describes the main functions of the Central Pollution Control Board (CPCB) as follows:

- To Advise the Central Government on any matter concerning the improvement of the quality the air and the prevention, control, and abatement of air pollution.
- To plan and cause to be executed a nation-wide programme for the prevention, control and abatement of air pollution.
- To provide technical assistance and guidance to the State Pollution Control Board.
- To carry out and sponsor investigations and research related to prevention, control and abatement of air pollution.
- To collect, compile and publish technical and statistical data related to air pollution; and
- To lay down and annul standards for the quality of air.

Particulate Matter (PM10 & PM2.5)

A mixture of particles with liquid droplets in the air forms particulate matter. PM 10 are particles that have a size of less than or equal to 10 microns whereas PM2.5 are ultra-fine particles having a size of less than or equal to 2.5 microns.

Sources:

Particulate Matter is released from constructions, smoking, cleanings, renovations, demolitions, constructions, natural hazards such as earthquakes, volcanic eruptions, and emissions from industries such as brick kilns, paper & pulp, etc.

Related effects:

These particles, when inhaled, can penetrate deeper into the respiratory system, and cause respiratory ailments such as asthma, coughing, sneezing, irritation in the airways, eyes, nose, throat irritation, etc. Studies have also shown links between PM exposure and diabetes.

The air quality details are as follows.

				Air Quality level		/el
S. No	Block	Floor	Location	PM 1.0	PM 2.5	PM 10
1	ВЕТА	Ground floor	BG-3_ Manufacturing technology	58	133	144
2	BETA	Ground floor	Engines lab and Thermal lab	44	79	91
3	BETA	Ground floor	BG-1_ Electrical machines lab	46	81	93
4	BETA	Ground floor	Engineering practical lab (Mechanical)	41	71	88
5	BETA	Ground floor	Gents rest room	43	75	91
6	BETA	Ground floor	Hydraulics' and FM Lab	43	87	98
7	ВЕТА	Ground floor	Mechanical HOD room	44	77	92
8	BETA	Ground floor	CSE Project lab	46	89	97
9	BETA	First floor	BF-8	46	89	98
10	BETA	First floor	Project lab	41	79	95
11	BETA	First floor	BF-4_ Microprocessor lab	46	80	90
12	BETA	First floor	Conference hall	26	45	59
13	BETA	Second floor	BS-7_ Tutorial room	47	81	93
14	BETA	Second floor	Communication lab	47	82	93
15	BETA	Third floor	IOT Lab	44	83	94
16	BETA	Third floor	Classroom	40	74	87
17	DELTA	Ground floor	Classroom	40	72	87
18	DELTA	Ground floor	Computer science lab	39	68	79
19	DELTA	Ground floor	Staff room	38	62	82
20	DELTA	First floor	DF-3	38	61	81
21	DELTA	First floor	DF-3	39	61	79
22	DELTA	First floor	DF-1_ Staff room	37	74	86
23	DELTA	First floor	Chemistry lab	39	61	79
24	DELTA	First floor	DF-6_ Physics lab	41	89	105
25	DELTA	Second floor	DS-10_ Classroom	39	64	79
26	DELTA	Second floor	Lecture hall	38	67	82

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		_		Air Quality level		
S. No	Block	Floor	Location	PM 1.0	PM 2.5	PM 10
27	DELTA	Third floor	DT-7 classroom	38	60	78
28	DELTA	Third floor	DT-1 Classroom	36	61	77
29	THETA	Ground floor	Library	36	61	79
30	THETA	First floor	Canteen	39	64	81
31	ZETA	Ground floor	Classroom	31	51	63
32	ZETA	Ground floor	Classroom	31	51	63
33	ZETA	Ground floor	Lab-1	35	57	69
34	ZETA	Ground floor	Lab-2	36	57	72
35	ZETA	Ground floor	Lab-4	33	61	74
36	ZETA	Ground floor	Lab-5	33	57	75
37	OMEGA	Ground floor	Boys hostel_ Rooms	37	63	74
38	OMEGA	Ground floor	Boys hostel_ Canteen	38	66	85
39	ALPHA	Ground floor	Waiting hall	38	66	82
40	ALPHA	Ground floor	Admin office	38	68	85
41	ALPHA	Ground floor	Lab	36	71	89
42	ALPHA	Ground floor	Classroom	39	70	82
43	GAMMA	Ground floor	Ladies hostel_ Rooms	49	87	97
44	GAMMA	Ground floor	Ladies hostel_ Rooms	51	93	107

Remarks:

It is observed that Air quality is found to be satisfactory.

18.0 NOISE LEVEL IN THE SURROUNDING OF COLLEGE

THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000

(The Principal Rules were published in the Gazette of India, vide S.O. 123(E), dated 14.2.2000 and subsequently amended vide S.O. 1046(E), dated 22.11.2000, S.O. 1088(E), dated 11.10.2002, S.O. 1569 (E), dated 19.09.2006 and S.O. 50 (E) dated 11.01.2010 under the Environment (Protection) Act, 1986.)

Ambient Air Quality Standards in respect of Noise

Avec Code	Catanama Of Amas /7ama	Limits In dB(A) Leq*		
Area Code	Category Of Area/Zone	Day Time	Night-time	
(A)	Industrial area	75	70	
(B)	Commercial area	65	55	
(C)	Residential area	55	45	
(D)	Silence Zone	50	40	

Note: -

- 1. Day time shall mean from 6.00 a.m. to 10.00 p.m.
- 2. Night-time shall mean from 10.00 p.m. to 6.00 a.m.
- 3. Silence zone is an area comprising not less than 100 metres around hospitals, educational institutions, courts, religious places, or any other area which is declared as such by the competent authority.
- 4. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.
- 5. * dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
- 6. A "decibel" is a unit in which noise is measured.
- 7. "A", in dB(A) Leq, denotes the frequency weighting in the measurement of
- 8. noise and corresponds to frequency response characteristics of the human ear.
- 9. Leq: It is an energy mean of the noise level over a specified period.

The noise level in the campus details are as follows.

S. No	Block	Floor	Location	Noise level, dB
1	BETA	Ground floor	BG-3_ Manufacturing technology	67.3
2	BETA	Ground floor	Engines lab and Thermal lab	70.8
3	BETA	Ground floor	BG-1_ Electrical machines lab	84.4
4	BETA	Ground floor	Engineering practical lab (Mechanical)	79.6
5	BETA	Ground floor	Gents rest room	71.6
6	BETA	Ground floor	Hydraulics' and FM Lab	84.3
7	BETA	Ground floor	Mechanical HOD room	78.4
8	BETA	Ground floor	CSE Project lab	91.8
9	BETA	First floor	BF-8	97.3
10	BETA	First floor	Project lab	104.6
11	BETA	First floor	BF-4_ Microprocessor lab	103.2
12	BETA	First floor	Conference hall	111
13	BETA	Second floor	BS-7_ Tutorial room	101.4
14	BETA	Second floor	Communication lab	100
15	BETA	Third floor	IOT Lab	94
16	BETA	Third floor	Classroom	97
17	DELTA	Ground floor	Classroom	67.3
18	DELTA	Ground floor	Computer science lab	57.6
19	DELTA	Ground floor	Staff room	63.8
20	DELTA	First floor	DF-3	64.2
21	DELTA	First floor	DF-3	64
22	DELTA	First floor	DF-1_ Staff room	82.7
23	DELTA	First floor	Chemistry lab	65.8
24	DELTA	First floor	DF-6_ Physics lab	63.8
25	DELTA	Second floor	DS-10_ Classroom	63.5
26	DELTA	Second floor	Lecture hall	61.5
27	DELTA	Third floor	DT-7 classroom	54.3
28	DELTA	Third floor	DT-1 Classroom	63.9
29	THETA	Ground floor	Library	55
30	THETA	First floor	Canteen	61
31	ZETA	Ground floor	Classroom	54.6
32	ZETA	Ground floor	Classroom	54.6
33	ZETA	Ground floor	Lab-1	50.6
34	ZETA	Ground floor	Lab-2	54.3
35	ZETA	Ground floor	Lab-4	63.8
36	ZETA	Ground floor	Lab-5	66.8

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S. No	Block	Floor	Location	Noise level, dB
37	OMEGA	Ground floor	Boys hostel_ Rooms	61.8
38	OMEGA	Ground floor	Boys hostel_ Canteen	60.9
39	ALPHA	Ground floor	Waiting hall	91.3
40	ALPHA	Ground floor	Admin office	81.3
41	ALPHA	Ground floor	Lab	79.8
42	ALPHA	Ground floor	Classroom	69.9
43	GAMMA	Ground floor	Ladies hostel_ Rooms	64.7
44	GAMMA	Ground floor	Ladies hostel_ Rooms	64.8

Remarks:

It is observed that few areas noise level is higher than 65 db. It is recommended to reduce the noise level in mentioned location.

19.0 ENERGY AUDIT

Source of Electricity - 1

The plant receives two LT EB supply from TNEB. The LT Supply details as follows.

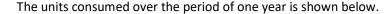
Source Of Power Supply	:	TNEB
Electric Power Supply is received from TANGEDCO	:	LT supply
Service number	:	09-571-001-3041
Sanction Load, kW	:	112
Annual Electricity Consumption, kWh	:	278579.2
Avg. Annual Power factor	:	0.99
Unit charges, Rs/kWh	:	6.35

The one-year Electricity Bills for 2021-22 bill has been analysed and details as follows.

		SEF	RVICE NUI	MBER: 09-571	-001-3041			
Month	Maximum Demand, kW	Excess demand penalty, INR	Power Factor	Consumed Units, kWh	Fixed Charges, INR	Current Consumption Charges, INR	E-Tax, INR	Total bill, INR
Jan-22	65	0	0.98	11403	6720	85521	4474	96715
Feb-22	31	0	0.98	11579	6720	86841	4438	97999
Mar-22	64	0	0.99	23780	6720	178353	9110	194183
Apr-22	63	0	0.99	23514	6720	176358	9007	192085
May-22	65	0	0.99	24151	6720	181134	9252	197106
Jun-22	75	0	0.99	29611	6720	222081	11329	240130
Jul-22	66	0	0.99	26348	6720	197613	10079	214412
Aug-22	70	0	0.98	24518	6720	183888	9404	200012
Sep-22	86	0	1.00	27310	24304	232135	12382	265666
Oct-22	93	0	0.99	31325	36400	279577	15490	331468
Nov-22	74	0	0.99	24283	36400	216724	12039	265163
Dec-22	85	0	0.99	20756	36400	185247	10644	232291

Remarks:

The plant has maintained power factor close to unity which is good.





The maximum unit is consumed in the month of January 2022 and minimum unit is consumed in the month of October 2022.

The recorded demand over the period of one year is shown below.



The recorded demand is maximum in the month of February 2022 and minimum in the month of October 2022.



The bill details over the period of one year is shown below.

The maximum bill is paid in the month of January 2022 and minimum in the month of October 2022.

Source of Electricity - 2

The plant receives two LT EB supply from TNEB. The LT Supply details as follows.

Source Of Power Supply	:	TNEB
Electric Power Supply is received from TANGEDCO	:	LT supply
Service number	:	09-571-001-6732
Sanction Load, kW	:	112
Annual Electricity Consumption, kWh	:	72127
Avg. Annual Power factor	:	0.95
Unit charges, Rs/kWh	:	6.35

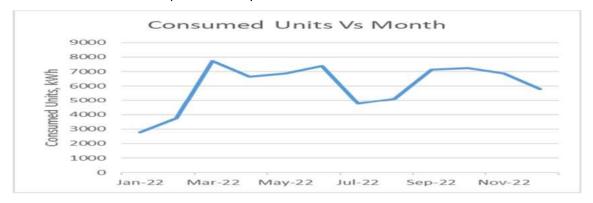
The one-year Electricity Bills for 2021-22 bill has been analysed and details as follows.

		S	ERVICE NUM	BER: 09-571-0	001-6732			
Month	Maximum Demand, kW	Excess demand penalty, INR	Power Factor	Consumed Units, kWh	Fixed Charges, INR	Current Consumption Charges, INR	ETax, INR	Total bill, INR
Jan-22	35	0	0.96	2780	7840	22379	1245	31464
Feb-22	38	0	0.93	3752	7840	30204	1643	39687
Mar-22	44	0	0.95	7728	7840	62210	3268	73318
Apr-22	47	0	0.96	6644	7840	53484	2842	64166
May-22	39	0	0.96	6880	7840	55384	2909	66133
Jun-22	52	0	0.96	7396	7840	59537	3162	70540
Jul-22	31	0	0.94	4772	7840	38415	2033	48287
Aug-22	45	0	0.95	5115	7840	47752	2219	51210
Sep-22	45	0	0.95	7128	23035	67716	3768	92699
Oct-22	46	0	0.93	7256	33600	72379	4324	110303
Nov-22	45	0	0.94	6872	33600	68548	4102	106251
Dec-22	37	0	0.95	5804	33600	57895	33600	94960

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Remarks: The plant has maintained average power factor of 0.95 which is good.

The units consumed over the period of one year is shown below.



The maximum unit is consumed in the month of January 2022 and minimum unit is consumed in the month of March 2022.

The recorded demand over the period of one year is shown below.



The recorded demand is maximum in the month of July 2022 and minimum in the month of June 2022.

The bill details over the period of one year is shown below.



The maximum bill is paid in the month of January 2022 and minimum in the month of June 2022.

20.0 LIGHT DETAILS

The light details of the campus are as follows.

			LIGHT DETAILS				
S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	TYPE OF LIGHT	NO OF LIGHTS	WATTAGE	OPERATING HOURS
1	BETA BLOCK	Ground floor	BG1	LED TUBE LIGHT	12	20	8 HOURS
2	BETA BLOCK	Ground floor	BG 2	LED TUBE LIGHT	4	20	8 HOURS
ĸ	BETA BLOCK	Ground floor	BG3	LED TUBE LIGHT	9	20	8 HOURS
4	BETA BLOCK	Ground floor	BG4	LED TUBE LIGHT	က	20	8 HOURS
2	BETA BLOCK	Ground floor	BG5	LED TUBE LIGHT	2	20	8 HOURS
9	BETA BLOCK	Ground floor	BG6	LED TUBE LIGHT	9	20	8 HOURS
7	BETA BLOCK	Ground floor	BG7	LED TUBE LIGHT	3	20	8 HOURS
∞	BETA BLOCK	Ground floor	BG8	LED TUBE LIGHT	1	20	8 HOURS
6	BETA BLOCK	Ground floor	BG9	LED TUBE LIGHT	1	20	8 HOURS
10	BETA BLOCK	Ground floor	BG10	LED TUBE LIGHT	7	20	8 HOURS
11	BETA BLOCK	Ground floor	BG11	LED TUBE LIGHT	2	20	8 HOURS
12	BETA BLOCK	Ground floor	BG12	LED TUBE LIGHT	9	20	8 HOURS
13	BETA BLOCK	Ground floor	BG13	LED TUBE LIGHT	4	20	8 HOURS
14	BETA BLOCK	Ground floor	BG14	LED TUBE LIGHT	1	20	8 HOURS
15	BETA BLOCK	Ground floor	BG15	LED TUBE LIGHT	2	20	8 HOURS
16	BETA BLOCK	Ground floor	BG16	LED TUBE LIGHT	11	20	8 HOURS
17	BETA BLOCK	FRIST FLOOR	BF11	LED TUBE LIGHT	9	20	8 HOURS
18	BETA BLOCK	FRIST FLOOR	BF12	LED TUBE LIGHT	8	20	8 HOURS
19	BETA BLOCK	FRIST FLOOR	BF13	LED TUBE LIGHT	9	20	8 HOURS
20	BETA BLOCK	FRIST FLOOR	BF14	LED TUBE LIGHT	2	20	8 HOURS
21	BETA BLOCK	FRIST FLOOR	BF15	LED TUBE LIGHT	1	20	8 HOURS
22	BETA BLOCK	FRIST FLOOR	BF16	LED TUBE LIGHT	က	20	8 HOURS

OPERATING HOURS 8 HOURS 8 HOURS WATTAGE 20 20 20 20 20 20 20 20 36 20 20 20 20 20 20 20 20 20 20 LIGHTS 29 4 4 ⊣ 3 2 7 $^{\circ}$ / $^{\circ}$ 2 6 6 6 \vdash 4 LED TUBE LIGHT FALSE CEILING FALSE CEILING FALSE CEILING **TYPE OF LIGHT** PL LIGHT LIGHT LIGHT LIGHT **LIGHT DETAILS** LOCATION **BF19** BF20 **BF17 BF18** BF21 BF10 BF1 BF3 BF4 BF5 BF6 BF8 BF2 BF7 BF9 **BS1 BS5 BS2** BS3 BS4 SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR FRIST FLOOR FLOOR NAME OF THE BLOCK **BETA BLOCK BETA BLOCK** S. NO 25 26 28 29 30 31 32 33 34 35 36 39 4 49 40 23 24 27 37 38

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6.NO NAME OF THE BLOCK FLOOR LOCATION TYPE OF LIGHT A DOT LIGHTS WATTAGE DEFATING HOURS 40 BETA BLOCK SECOND FLOOR BSS LED TUBE LIGHT 2 20 8 HOURS 40 BETA BLOCK SECOND FLOOR BSS LED TUBE LIGHT 4 20 8 HOURS 40 BETA BLOCK SECOND FLOOR BSS LED TUBE LIGHT 4 20 8 HOURS 41 BETA BLOCK SECOND FLOOR BSS LED TUBE LIGHT 4 20 8 HOURS 42 BETA BLOCK SECOND FLOOR BSS LED TUBE LIGHT 5 20 8 HOURS 43 BETA BLOCK SECOND FLOOR BSS LED TUBE LIGHT 5 20 8 HOURS 44 BETA BLOCK SECOND FLOOR BSS LED TUBE LIGHT 5 20 8 HOURS 45 BETA BLOCK SECOND FLOOR BSS LED TUBE LIGHT 5 20 8 HOURS 46 BETA BLOCK SECOND FLOOR				LIGHT DETAILS				
BETA BLOCK SECOND FLOOR BSG LED TUBE LIGHT 5 20 BETA BLOCK SECOND FLOOR BS3 LED TUBE LIGHT 2 20 BETA BLOCK SECOND FLOOR BS39 LED TUBE LIGHT 4 20 BETA BLOCK SECOND FLOOR BS110 TUBE LIGHT 6 20 BETA BLOCK SECOND FLOOR BS13 LED TUBE LIGHT 6 20 BETA BLOCK SECOND FLOOR BS13 LED TUBE LIGHT 6 20 BETA BLOCK SECOND FLOOR BS13 LED TUBE LIGHT 5 20 BETA BLOCK SECOND FLOOR BS14 LED TUBE LIGHT 5 20 BETA BLOCK SECOND FLOOR BS14 LED TUBE LIGHT 4 20 BETA BLOCK SECOND FLOOR BS16 LED TUBE LIGHT 4 20 BETA BLOCK SECOND FLOOR BS18 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT1 LED TUBE LIGHT 7 20	S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	TYPE OF LIGHT	NO OF LIGHTS	WATTAGE	OPERATING HOURS
BETA BLOCK SECOND FLOOR BSS LED TUBE LIGHT 2 0 BETA BLOCK SECOND FLOOR BSS LED TUBE LIGHT 4 20 BETA BLOCK SECOND FLOOR BS30 LED TUBE LIGHT 4 20 BETA BLOCK SECOND FLOOR BS31 LED TUBE LIGHT 5 20 BETA BLOCK SECOND FLOOR BS13 LED TUBE LIGHT 5 20 BETA BLOCK SECOND FLOOR BS13 LED TUBE LIGHT 5 20 BETA BLOCK SECOND FLOOR BS13 LED TUBE LIGHT 5 20 BETA BLOCK SECOND FLOOR BS14 LED TUBE LIGHT 5 20 BETA BLOCK SECOND FLOOR BS14 LED TUBE LIGHT 4 20 BETA BLOCK SECOND FLOOR BS13 LED TUBE LIGHT 4 20 BETA BLOCK SECOND FLOOR BS13 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT3 LED TUBE LIGHT 7 20 BETA	40	BETA BLOCK	SECOND FLOOR	BS6	LED TUBE LIGHT	5	20	8 HOURS
BETA BLOCK SECOND FLOOR BSS LED TUBE LIGHT 4 20 BETA BLOCK SECOND FLOOR BS310 LED TUBE LIGHT 4 20 BETA BLOCK SECOND FLOOR BS31 LED TUBE LIGHT 6 20 BETA BLOCK SECOND FLOOR BS13 LED TUBE LIGHT 6 20 BETA BLOCK SECOND FLOOR BS13 LED TUBE LIGHT 5 20 BETA BLOCK SECOND FLOOR BS13 LED TUBE LIGHT 5 20 BETA BLOCK SECOND FLOOR BS14 LED TUBE LIGHT 5 20 BETA BLOCK SECOND FLOOR BS15 LED TUBE LIGHT 3 20 BETA BLOCK SECOND FLOOR BS14 LED TUBE LIGHT 4 20 BETA BLOCK SECOND FLOOR BS13 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT1 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT3 LED TUBE LIGHT 5 20	40	BETA BLOCK	SECOND FLOOR	BS7	LED TUBE LIGHT	2	20	8 HOURS
BETA BLOCK SECOND FLOOR BS30 LED TUBE LIGHT 4 20 BETA BLOCK SECOND FLOOR BS11 LED TUBE LIGHT 1 36 20 BETA BLOCK SECOND FLOOR BS13 LED TUBE LIGHT 6 20 20 BETA BLOCK SECOND FLOOR BS13 LED TUBE LIGHT 5 20 20 BETA BLOCK SECOND FLOOR BS13 LED TUBE LIGHT 5 20 20 BETA BLOCK SECOND FLOOR BS13 LED TUBE LIGHT 5 20 20 BETA BLOCK SECOND FLOOR BS14 LED TUBE LIGHT 3 20 20 BETA BLOCK SECOND FLOOR BS13 LED TUBE LIGHT 4 20 20 BETA BLOCK Third floor BT1 LED TUBE LIGHT 7 20 20 BETA BLOCKThird floor BT2 LED TUBE LIGHT 7 20 20 BETA BLOCKThird floor BT3 LED TUBE LIGHT 7 20 20 <th>40</th> <th>BETA BLOCK</th> <th>SECOND FLOOR</th> <th>BS8</th> <th>LED TUBE LIGHT</th> <th>4</th> <th>20</th> <th>8 HOURS</th>	40	BETA BLOCK	SECOND FLOOR	BS8	LED TUBE LIGHT	4	20	8 HOURS
BETA BLOCK SECOND FLOOR BS11 TUBE LIGHT 1 36 BETA BLOCK SECOND FLOOR BS11 LED TUBE LIGHT 6 20 BETA BLOCK SECOND FLOOR BS13 LED TUBE LIGHT 6 20 BETA BLOCK SECOND FLOOR BS13 LED TUBE LIGHT 5 20 BETA BLOCK SECOND FLOOR BS14 LED TUBE LIGHT 5 20 BETA BLOCK SECOND FLOOR BS14 LED TUBE LIGHT 3 20 BETA BLOCK SECOND FLOOR BS14 LED TUBE LIGHT 3 20 BETA BLOCK SECOND FLOOR BS14 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT1 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT3 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT3 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT3 LED TUBE LIGHT 7 20	40	BETA BLOCK	SECOND FLOOR	BS9	LED TUBE LIGHT	4	20	8 HOURS
BETA BLOCK SECOND FLOOR BS11 LED TUBE LIGHT 6 20 BETA BLOCK SECOND FLOOR BS13 LED TUBE LIGHT 6 20 BETA BLOCK SECOND FLOOR BS13 LED TUBE LIGHT 5 20 BETA BLOCK SECOND FLOOR BS14 LED TUBE LIGHT 5 20 BETA BLOCK SECOND FLOOR BS15 LED TUBE LIGHT 5 20 BETA BLOCK SECOND FLOOR BS16 LED TUBE LIGHT 3 20 BETA BLOCK SECOND FLOOR BS18 LED TUBE LIGHT 4 20 BETA BLOCK SECOND FLOOR BS18 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT1 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT3 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT3 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT4 LED TUBE LIGHT 7 20	40	BETA BLOCK	SECOND FLOOR	BS10	TUBE LIGHT	1	36	8 HOURS
BETA BLOCK SECOND FLOOR BS13 LED TUBE LIGHT 6 20 BETA BLOCK SECOND FLOOR BS13 LED TUBE LIGHT 5 20 BETA BLOCK SECOND FLOOR BS14 LED TUBE LIGHT 5 20 BETA BLOCK SECOND FLOOR BS15 LED TUBE LIGHT 3 20 BETA BLOCK SECOND FLOOR BS16 LED TUBE LIGHT 4 20 BETA BLOCK SECOND FLOOR BS13 LED TUBE LIGHT 4 20 BETA BLOCK SECOND FLOOR BS13 LED TUBE LIGHT 1 20 BETA BLOCK Third floor BT1 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT3 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT3 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT3 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT3 LED TUBE LIGHT 7 20	41	BETA BLOCK	SECOND FLOOR	BS11	LED TUBE LIGHT	9	20	8 HOURS
BETA BLOCK SECOND FLOOR BS13 LED TUBE LIGHT 5 20 BETA BLOCK SECOND FLOOR BS14 LED TUBE LIGHT 1 20 BETA BLOCK SECOND FLOOR BS15 LED TUBE LIGHT 5 20 BETA BLOCK SECOND FLOOR BS16 LED TUBE LIGHT 3 20 BETA BLOCK SECOND FLOOR BS16 LED TUBE LIGHT 4 20 BETA BLOCK SECOND FLOOR BS18 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT1 LED TUBE LIGHT 10 20 BETA BLOCK Third floor BT3 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT3 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT3 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT4 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT5 LED TUBE LIGHT 4 20	42	BETA BLOCK	SECOND FLOOR	BS12	LED TUBE LIGHT	9	20	8 HOURS
BETA BLOCK SECOND FLOOR BS13 LED TUBE LIGHT 1 20 BETA BLOCK SECOND FLOOR BS14 LED TUBE LIGHT 5 20 BETA BLOCK SECOND FLOOR BS15 LED TUBE LIGHT 3 20 BETA BLOCK SECOND FLOOR BS18 LED TUBE LIGHT 4 20 BETA BLOCK SECOND FLOOR BS18 LED TUBE LIGHT 1 20 BETA BLOCK SECOND FLOOR BS18 LED TUBE LIGHT 1 20 BETA BLOCK Third floor BT1 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT2 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT3 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT3 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT4 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT5 LED TUBE LIGHT 7 20	43	BETA BLOCK	SECOND FLOOR	BS13	LED TUBE LIGHT	5	20	8 HOURS
BETA BLOCK SECOND FLOOR BS14 LED TUBE LIGHT 5 20 BETA BLOCK SECOND FLOOR BS15 LED TUBE LIGHT 1 20 BETA BLOCK SECOND FLOOR BS16 LED TUBE LIGHT 4 20 BETA BLOCK SECOND FLOOR BS18 LED TUBE LIGHT 1 20 BETA BLOCK Third floor BT1 LED TUBE LIGHT 6 20 BETA BLOCK Third floor BT3 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT3 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT3 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT4 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT4 LED TUBE LIGHT 6 20 BETA BLOCK Third floor BT5 LED TUBE LIGHT 6 20 BETA BLOCK Third floor BT5 LED TUBE LIGHT 4 20 <td< th=""><th>44</th><th>BETA BLOCK</th><th>SECOND FLOOR</th><th>BS13</th><th>LED TUBE LIGHT</th><th>Н</th><th>20</th><th>8 HOURS</th></td<>	44	BETA BLOCK	SECOND FLOOR	BS13	LED TUBE LIGHT	Н	20	8 HOURS
BETA BLOCK SECOND FLOOR BS15 LED TUBE LIGHT 1 20 BETA BLOCK SECOND FLOOR BS17 LED TUBE LIGHT 3 20 BETA BLOCK SECOND FLOOR BS13 LED TUBE LIGHT 4 20 BETA BLOCK SECOND FLOOR BS13 LED TUBE LIGHT 10 20 BETA BLOCK Third floor BT3 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT3 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT4 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT4 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT5 LED TUBE LIGHT 6 20 BETA BLOCK Third floor BT5 LED TUBE LIGHT 6 20 BETA BLOCK Third floor BT5 LED TUBE LIGHT 6 20 BETA BLOCK Third floor BT6 LED TUBE LIGHT 4 20 <t< th=""><th>45</th><th>BETA BLOCK</th><th>SECOND FLOOR</th><th>BS14</th><th>LED TUBE LIGHT</th><th>2</th><th>20</th><th>8 HOURS</th></t<>	45	BETA BLOCK	SECOND FLOOR	BS14	LED TUBE LIGHT	2	20	8 HOURS
BETA BLOCK SECOND FLOOR BS16 LED TUBE LIGHT 3 20 BETA BLOCK SECOND FLOOR BS17 LED TUBE LIGHT 4 20 BETA BLOCK SECOND FLOOR BS18 LED TUBE LIGHT 10 20 BETA BLOCK Third floor BT1 LED TUBE LIGHT 6 20 BETA BLOCK Third floor BT3 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT3 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT4 LED TUBE LIGHT 6 20 BETA BLOCK Third floor BT5 LED TUBE LIGHT 6 20 BETA BLOCK Third floor BT5 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT6 LED TUBE LIGHT 4 20	46	BETA BLOCK	SECOND FLOOR	BS15	LED TUBE LIGHT	1	20	8 HOURS
BETA BLOCK SECOND FLOOR BS18 LED TUBE LIGHT 4 20 BETA BLOCK SECOND FLOOR BS18 LED TUBE LIGHT 10 20 BETA BLOCK Third floor BT1 LED TUBE LIGHT 6 20 BETA BLOCK Third floor BT3 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT3 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT5 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT5 LED TUBE LIGHT 6 20 BETA BLOCK Third floor BT5 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT6 LED TUBE LIGHT 4 20	47	BETA BLOCK	SECOND FLOOR	BS16	LED TUBE LIGHT	3	20	8 HOURS
BETA BLOCK SECOND FLOOR BS18 LED TUBE LIGHT 1 20 BETA BLOCK Third floor BT1 LED TUBE LIGHT 6 20 BETA BLOCK Third floor BT2 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT3 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT4 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT5 LED TUBE LIGHT 6 20 BETA BLOCK Third floor BT5 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT6 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT6 LED TUBE LIGHT 3 20	48	BETA BLOCK	SECOND FLOOR	BS17	LED TUBE LIGHT	4	20	8 HOURS
BETA BLOCK SECOND FLOOR BS19 LED TUBE LIGHT 10 20 BETA BLOCK Third floor BT2 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT3 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT4 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT5 LED TUBE LIGHT 6 20 BETA BLOCK Third floor BT6 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT6 LED TUBE LIGHT 4 20	49	BETA BLOCK	SECOND FLOOR	BS18	LED TUBE LIGHT	1	20	8 HOURS
BETA BLOCK Third floor BT2 LED TUBE LIGHT 6 20 BETA BLOCK Third floor BT3 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT4 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT5 LED TUBE LIGHT 6 20 BETA BLOCK Third floor BT6 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT7 LED TUBE LIGHT 4 20	20	BETA BLOCK	SECOND FLOOR	BS19	LED TUBE LIGHT	10	20	8 HOURS
BETA BLOCK Third floor BT3 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT4 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT5 LED TUBE LIGHT 6 20 BETA BLOCK Third floor BT6 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT7 LED TUBE LIGHT 3 20	51	BETA BLOCK	Third floor	BT1	LED TUBE LIGHT	9	20	8 HOURS
BETA BLOCK Third floor BT4 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT5 LED TUBE LIGHT 6 20 BETA BLOCK Third floor BT6 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT7 LED TUBE LIGHT 3 20	52	BETA BLOCK	Third floor	ВТ2	LED TUBE LIGHT	7	20	8 HOURS
BETA BLOCK Third floor BTA LED TUBE LIGHT 3 20 BETA BLOCK Third floor BTS LED TUBE LIGHT 6 20 BETA BLOCK Third floor BT7 LED TUBE LIGHT 3 20	23	BETA BLOCK	Third floor	ВТ3	LED TUBE LIGHT	7	20	8 HOURS
BETA BLOCKThird floorBTSLED TUBE LIGHT620BETA BLOCKThird floorBT7LED TUBE LIGHT320	54	BETA BLOCK	Third floor	BT4	LED TUBE LIGHT	3	20	8 HOURS
BETA BLOCKThird floorBTGLED TUBE LIGHT420BETA BLOCKThird floorBT7LED TUBE LIGHT320	22	BETA BLOCK	Third floor	BT5	LED TUBE LIGHT	9	20	8 HOURS
BETA BLOCK Third floor BT7 LED TUBE LIGHT 3 20	99	BETA BLOCK	Third floor	ВТ6	LED TUBE LIGHT	4	20	8 HOURS
	22	BETA BLOCK	Third floor	BT7	LED TUBE LIGHT	3	20	8 HOURS

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S.NO NAME OF THE BLOCK FLOOR DOCATION TYPE OF LIGHT ANT ACT PRETABLICAC PROUNTS 5.9 BETA BLOCK Third floor BT3 LED TUBE LIGHT 1 20 8 HOUNS 6.0 BETA BLOCK Third floor BT3 LED TUBE LIGHT 7 20 8 HOUNS 6.1 BETA BLOCK Third floor BT11 LED TUBE LIGHT 7 20 8 HOUNS 6.3 BETA BLOCK Third floor BT13 LED TUBE LIGHT 7 20 8 HOUNS 6.3 BETA BLOCK Third floor BT13 LED TUBE LIGHT 3 20 8 HOUNS 6.5 BETA BLOCK Third floor BT15 LED TUBE LIGHT 3 20 8 HOUNS 6.9 BETA BLOCK Third floor BT12 LED TUBE LIGHT 3 20 8 HOUNS 6.9 BETA BLOCK Third floor BT13 LED TUBE LIGHT 3 20 8 HOUNS 7.0 BETA BLOCK Third floor				LIGHT DETAILS				
BETA BLOCK Third floor BTS LED TUBE LIGHT 1 20 BETA BLOCK Third floor BT30 LED TUBE LIGHT 1 20 BETA BLOCK Third floor BT13 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT13 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT14 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT15 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT15 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT13 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT13 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT23 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT23 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT23 LED TUBE LIGHT 4 20	S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	туре оғ шант	NO OF LIGHTS	WATTAGE	OPERATING HOURS
BETA BLOCK Third floor BT30 LED TUBE LIGHT 1 20 BETA BLOCK Third floor BT31 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT31 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT13 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT14 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT15 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT15 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT13 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT20 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT20 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT23 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT23 LED TUBE LIGHT 4 20	28	BETA BLOCK	Third floor	BT8	LED TUBE LIGHT	1	20	8 HOURS
BETA BLOCK Third floor BT10 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT11 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT13 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT14 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT15 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT13 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT13 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT13 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT20 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT22 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT23 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT23 LED TUBE LIGHT 4 20	29	BETA BLOCK	Third floor	ВТ9	LED TUBE LIGHT	1	20	8 HOURS
BETA BLOCK Third floor BT11 LED TUBE LIGHT 7 20 BETA BLOCK Third floor BT12 LED TUBE LIGHT 5 20 BETA BLOCK Third floor BT13 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT14 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT15 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT13 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT20 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT21 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT23 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT23 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT23 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT24 LED TUBE LIGHT 4 20	9	BETA BLOCK	Third floor	BT10	LED TUBE LIGHT	7	20	8 HOURS
BETA BLOCK Third floor BT13 LED TUBE LIGHT 5 20 BETA BLOCK Third floor BT14 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT15 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT15 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT17 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT13 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT20 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT22 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT23 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT23 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT23 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT24 LED TUBE LIGHT 4 20	61	BETA BLOCK	Third floor	BT11	LED TUBE LIGHT	7	20	8 HOURS
BETA BLOCK Third floor BT13 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT14 LED TUBE LIGHT 1 20 BETA BLOCK Third floor BT15 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT17 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT18 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT20 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT21 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT22 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT23 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT24 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT24 LED TUBE LIGHT 4 20 DELIA BLOCK Ground floor DG2 LED TUBE LIGHT 4 20	62	BETA BLOCK	Third floor	BT12	LED TUBE LIGHT	5	20	8 HOURS
BETA BLOCK Third floor BT14 LED TUBE LIGHT 1 20 BETA BLOCK Third floor BT15 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT17 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT19 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT20 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT20 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT22 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT23 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT23 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT23 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG1 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG3 LED TUBE LIGHT 4 20	63	BETA BLOCK	Third floor	BT13	LED TUBE LIGHT	4	20	8 HOURS
BETA BLOCK Third floor BT15 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT16 LED TUBE LIGHT 1 20 BETA BLOCK Third floor BT13 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT20 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT20 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT21 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT22 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT23 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT23 LED TUBE LIGHT 4 20 DELTA BLOCK Third floor BT24 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG1 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG3 LED TUBE LIGHT 4 20	64	BETA BLOCK	Third floor	BT14	LED TUBE LIGHT	1	20	8 HOURS
BETA BLOCK Third floor BT16 LED TUBE LIGHT 1 20 BETA BLOCK Third floor BT17 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT19 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT20 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT22 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT23 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT23 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT23 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG1 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG3 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG3 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG3 LED TUBE LIGHT 4 20	92	BETA BLOCK	Third floor	BT15	LED TUBE LIGHT	3	20	8 HOURS
BETA BLOCK Third floor BT17 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT19 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT20 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT21 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT23 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT23 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT24 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG3 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG3 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG3 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG4 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG4 LED TUBE LIGHT 4 20	99	BETA BLOCK	Third floor	BT16	LED TUBE LIGHT	1	20	8 HOURS
BETA BLOCK Third floor BT18 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT20 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT21 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT23 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT23 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT24 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG3 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG3 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG3 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG4 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG3 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG4 LED TUBE LIGHT 4 20	6 2	BETA BLOCK	Third floor	BT17	LED TUBE LIGHT	က	20	8 HOURS
BETA BLOCK Third floor BT19 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT20 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT22 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT23 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT24 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG1 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG3 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG3 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG3 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG4 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG5 LED TUBE LIGHT 4 20	89	BETA BLOCK	Third floor	BT18	LED TUBE LIGHT	4	20	8 HOURS
BETA BLOCK Third floor BT20 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT21 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT23 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT24 LED TUBE LIGHT 13 20 DELTA BLOCK Ground floor DG1 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG3 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG3 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG3 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG4 LED TUBE LIGHT 4 20	69	BETA BLOCK	Third floor	BT19	LED TUBE LIGHT	3	20	8 HOURS
BETA BLOCK Third floor BT22 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT22 LED TUBE LIGHT 3 20 BETA BLOCK Third floor BT24 LED TUBE LIGHT 3 20 DELTA BLOCK Ground floor DG1 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG2 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG3 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG3 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG3 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG5 LED TUBE LIGHT 4 20	70	BETA BLOCK	Third floor	BT20	LED TUBE LIGHT	3	20	8 HOURS
BETA BLOCK Third floor BT22 LED TUBE LIGHT 4 20 BETA BLOCK Third floor BT24 LED TUBE LIGHT 3 20 DELTA BLOCK Ground floor DG1 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG3 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG3 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG3 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG4 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG5 LED TUBE LIGHT 4 20	71	BETA BLOCK	Third floor	BT21	LED TUBE LIGHT	4	20	8 HOURS
BETA BLOCK Third floor BT23 LED TUBE LIGHT 3 20 DELTA BLOCK Ground floor DG1 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG2 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG3 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG4 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG5 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG5 LED TUBE LIGHT 4 20	72	BETA BLOCK	Third floor	BT22	LED TUBE LIGHT	4	20	8 HOURS
BETA BLOCK Third floor BT24 LED TUBE LIGHT 13 20 DELTA BLOCK Ground floor DG1 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG3 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG4 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG5 LED TUBE LIGHT 4 20	73	BETA BLOCK	Third floor	BT23	LED TUBE LIGHT	3	20	8 HOURS
DELTA BLOCK Ground floor DG1 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG2 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG4 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG5 LED TUBE LIGHT 4 20	74	BETA BLOCK	Third floor	BT24	LED TUBE LIGHT	13	20	8 HOURS
DELTA BLOCK Ground floor DG2 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG3 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG5 LED TUBE LIGHT 4 20	75	DELTA BLOCK	Ground floor	DG1	LED TUBE LIGHT	4	20	8 HOURS
DELTA BLOCK Ground floor DG3 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG5 LED TUBE LIGHT 4 20	9/	DELTA BLOCK	Ground floor	DG2	LED TUBE LIGHT	4	20	8 HOURS
DELTA BLOCK Ground floor DG4 LED TUBE LIGHT 4 20 DELTA BLOCK Ground floor DG5 LED TUBE LIGHT 4 20	77	DELTA BLOCK	Ground floor	DG3	LED TUBE LIGHT	4	20	8 HOURS
DELTA BLOCK Ground floor DG5 LED TUBE LIGHT 4 20	78	DELTA BLOCK	Ground floor	DG4	LED TUBE LIGHT	4	20	8 HOURS
	79	DELTA BLOCK	Ground floor	DG5	LED TUBE LIGHT	4	20	8 HOURS

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			LIGHT DETAILS				
S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	туре ор шант	NO OF LIGHTS	WATTAGE	OPERATING HOURS
80	DELTA BLOCK	Ground floor	DG6	LED TUBE LIGHT	4	20	8 HOURS
81	DELTA BLOCK	Ground floor	DG7	LED TUBE LIGHT	4	20	8 HOURS
82	DELTA BLOCK	Ground floor	DG8	LED TUBE LIGHT	4	20	8 HOURS
83	DELTA BLOCK	Ground floor	DG9	LED TUBE LIGHT	4	20	8 HOURS
84	DELTA BLOCK	Ground floor	DG10	LED TUBE LIGHT	2	20	8 HOURS
82	DELTA BLOCK	Ground floor	DG11	LED TUBE LIGHT	2	20	8 HOURS
98	DELTA BLOCK	Ground floor	DG12	LED TUBE LIGHT	1	20	8 HOURS
87	DELTA BLOCK	Ground floor	DG13	LED TUBE LIGHT	1	20	8 HOURS
88	DELTA BLOCK	Ground floor	DG14	LED TUBE LIGHT	_∞	20	8 HOURS
88	DELTA BLOCK	Ground floor	DG15	LED TUBE LIGHT	7	20	8 HOURS
06	DELTA BLOCK	Ground floor	DG16	LED TUBE LIGHT	3	20	8 HOURS
91	DELTA BLOCK	Ground floor	DG17	LED TUBE LIGHT	4	20	8 HOURS
92	DELTA BLOCK	Ground floor	DG18	LED TUBE LIGHT	8	20	8 HOURS
93	DELTA BLOCK	Ground floor	DG PASSAGE AREA	LED TUBE LIGHT	25	20	8 HOURS
94	DELTA BLOCK	FRIST FLOOR	DF1	LED TUBE LIGHT	10	20	8 HOURS
92	DELTA BLOCK	FRIST FLOOR	DF2	LED TUBE LIGHT	8	20	8 HOURS
96	DELTA BLOCK	FRIST FLOOR	DF3	LED TUBE LIGHT	5	20	8 HOURS
97	DELTA BLOCK	FRIST FLOOR	DF4	LED TUBE LIGHT	8	20	8 HOURS
86	DELTA BLOCK	FRIST FLOOR	DF5	LED TUBE LIGHT	6	20	8 HOURS
66	DELTA BLOCK	FRIST FLOOR	DF6	LED TUBE LIGHT	10	20	8 HOURS
100	DELTA BLOCK	FRIST FLOOR	DF7	LED TUBE LIGHT	5	20	8 HOURS
101	DELTA BLOCK	FRIST FLOOR	DF8	LED TUBE LIGHT	9	20	8 HOURS

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	OPERATING HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS	8 HOURS
	WATTAGE	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	NO OF LIGHTS	2	4	9	2	က	5	4	4	5	4	2	5	9	က	4	က	က	5	4	9
	TYPE OF LIGHT	LED TUBE LIGHT	LED TUBE LIGHT	LED TUBE LIGHT	LED TUBE LIGHT	LED TUBE LIGHT	LED TUBE LIGHT	LED TUBE LIGHT	LED TUBE LIGHT	LED TUBE LIGHT	LED TUBE LIGHT	LED TUBE LIGHT	LED TUBE LIGHT	LED TUBE LIGHT	LED TUBE LIGHT	LED TUBE LIGHT	LED TUBE LIGHT	LED TUBE LIGHT	LED TUBE LIGHT	FALSE CEILING LIGHT	FALSE CEILING LIGHT
LIGHT DETAILS	LOCATION	DF9	DF PASSAGE AREA	DS 1	DS 2	DS 3	DS 4	DS 5	DS 6	DS 7	DS 8	DS 9	DS 10	DS PASSAGE AREA	DT1	DT2	DT3	DT4	DT5	DT6	DT7
	FLOOR	FRIST FLOOR	FRIST FLOOR	SECOND FLOOR	SECOND FLOOR	SECOND FLOOR	SECOND FLOOR	SECOND FLOOR	SECOND FLOOR	SECOND FLOOR	SECOND FLOOR	SECOND FLOOR	SECOND FLOOR	SECOND FLOOR	Third floor	Third floor					
	NAME OF THE BLOCK	DELTA BLOCK	DELTA BLOCK	DELTA BLOCK	DELTA BLOCK	DELTA BLOCK	DELTA BLOCK	DELTA BLOCK	DELTA BLOCK	DELTA BLOCK	DELTA BLOCK	DELTA BLOCK	DELTA BLOCK	DELTA BLOCK	DELTA BLOCK	DELTA BLOCK	DELTA BLOCK	DELTA BLOCK	DELTA BLOCK	DELTA BLOCK	DELTA BLOCK
	S. NO	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121

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5.NO DELITA BLOCK Third floor DTB TABLE CELLING 15 20 8 HOURS 123 DELITA BLOCK Third floor DTB LED TUBE LIGHT 15 20 8 HOURS 124 DELITA BLOCK Third floor DTB LED TUBE LIGHT 4 20 8 HOURS 125 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 1 LED TUBE LIGHT 4 20 8 HOURS 126 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 3 LED TUBE LIGHT 2 20 8 HOURS 127 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 3 LED TUBE LIGHT 2 20 8 HOURS 128 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 3 LED TUBE LIGHT 2 20 8 HOURS 129 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 3 LED TUBE LIGHT 2 2 8 HOURS 131 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 2 8 HOURS 132 <				LIGHT DETAILS				
DELTA BLOCK Third floor DTS FALSE CELLING 15 20 DELTA BLOCK Third floor DTJO LED TUBE LIGHT 4 20 DELTA BLOCK Third floor DTJO LED TUBE LIGHT 4 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 1 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 3 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 3 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 5 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 9 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 9 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 10 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 1	S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	TYPE OF LIGHT	NO OF LIGHTS	WATTAGE	OPERATING HOURS
DELTA BLOCK Third floor DT9 LED TUBE LIGHT 4 20 DELTA BLOCK Third floor DT10 LED TUBE LIGHT 4 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 1 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 2 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 3 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 5 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 5 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 9 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 10 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 12 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR RO	122	DELTA BLOCK	Third floor	DT8	FALSE CEILING LIGHT	15	20	8 HOURS
DELTA BLOCK Third floor DT10 LED TUBE LIGHT 4 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 1 LED TUBE LIGHT 1 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 3 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 4 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 5 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 6 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 1 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR	123	DELTA BLOCK	Third floor	DT9	LED TUBE LIGHT	4	20	8 HOURS
OMEGA BLOCK GROUND FLOOR ROOM NUMBER 1 LED TUBE LIGHT 1 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 3 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 4 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 5 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 6 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 9 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 10 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 11 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 11 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FL	124	DELTA BLOCK	Third floor	DT10	LED TUBE LIGHT	4	20	8 HOURS
OMEGA BLOCK GROUND FLOOR ROOM NUMBER 3 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 3 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 5 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 6 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 7 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 8 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 10 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 11 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FL	125	OMEGA BLOCK	GROUND FLOOR	ROOM NUMBER 1	LED TUBE LIGHT	1	20	8 HOURS
OMEGA BLOCK GROUND FLOOR ROOM NUMBER 4 LED TUBE LIGHT 2 20 OMFIGA BLOCK GROUND FLOOR ROOM NUMBER 5 LED TUBE LIGHT 2 20 OMFIGA BLOCK GROUND FLOOR ROOM NUMBER 5 LED TUBE LIGHT 2 20 OMFIGA BLOCK GROUND FLOOR ROOM NUMBER 7 LED TUBE LIGHT 2 20 OMFIGA BLOCK GROUND FLOOR ROOM NUMBER 8 LED TUBE LIGHT 2 20 OMFIGA BLOCK GROUND FLOOR ROOM NUMBER 10 LED TUBE LIGHT 2 20 OMFIGA BLOCK GROUND FLOOR ROOM NUMBER 11 LED TUBE LIGHT 2 20 OMFIGA BLOCK GROUND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMFIGA BLOCK GROUND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMFIGA BLOCK GROUND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMFIGA BLOCK GROUND FLOOR ROOM NUMBER 14 LED TUBE LIGHT 2 20 OMFIGA BLOCK <	126	OMEGA BLOCK	GROUND FLOOR	ROOM NUMBER 2	LED TUBE LIGHT	2	20	8 HOURS
OMEGA BLOCK GROUND FLOOR ROOM NUMBER 4 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 5 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 7 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 8 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 10 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 11 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 14 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 14 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND	127	OMEGA BLOCK	GROUND FLOOR	ROOM NUMBER 3	LED TUBE LIGHT	2	20	8 HOURS
OMEGA BLOCK GROUND FLOOR ROOM NUMBER 6 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 7 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 9 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 10 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 10 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 11 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 14 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 14 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND	128	OMEGA BLOCK	GROUND FLOOR	ROOM NUMBER 4	LED TUBE LIGHT	2	20	8 HOURS
OMEGA BLOCK GROUND FLOOR ROOM NUMBER 7 LED TUBE LIGHT 1 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 3 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 10 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 11 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 12 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 14 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 15 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 15 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 15 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUN	129	OMEGA BLOCK	GROUND FLOOR	ROOM NUMBER 5	LED TUBE LIGHT	2	20	8 HOURS
OMEGA BLOCK GROUND FLOOR ROOM NUMBER 3 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 9 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 10 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 11 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 14 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 15 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 15 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 15 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 15 LED TUBE LIGHT 2 20	130	OMEGA BLOCK	GROUND FLOOR	ROOM NUMBER 6	LED TUBE LIGHT	П	20	8 HOURS
OMEGA BLOCK GROUND FLOOR ROOM NUMBER 9 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 10 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 11 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 12 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 15 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 15 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 15 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 15 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 17 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 17 LED TUBE LIGHT 2 20	131	OMEGA BLOCK	GROUND FLOOR	ROOM NUMBER 7	LED TUBE LIGHT	2	20	8 HOURS
OMEGA BLOCK GROUND FLOOR ROOM NUMBER 10 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 11 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 14 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 15 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 16 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 16 LED TUBE LIGHT 2 20 OMEGA BLOCK GROUND FLOOR ROOM NUMBER 17 LED TUBE LIGHT 2 20	132	OMEGA BLOCK	GROUND FLOOR	ROOM NUMBER 8	LED TUBE LIGHT	2	20	8 HOURS
OMEGA BLOCKGROUND FLOORROOM NUMBER 11LED TUBE LIGHT220OMEGA BLOCKGROUND FLOORROOM NUMBER 12LED TUBE LIGHT220OMEGA BLOCKGROUND FLOORROOM NUMBER 13LED TUBE LIGHT220OMEGA BLOCKGROUND FLOORROOM NUMBER 14LED TUBE LIGHT220OMEGA BLOCKGROUND FLOORROOM NUMBER 15LED TUBE LIGHT220OMEGA BLOCKGROUND FLOORROOM NUMBER 16LED TUBE LIGHT220OMEGA BLOCKGROUND FLOORROOM NUMBER 17LED TUBE LIGHT220OMEGA BLOCKGROUND FLOORROOM NUMBER 18LED TUBE LIGHT220	133	OMEGA BLOCK	GROUND FLOOR	ROOM NUMBER 9	LED TUBE LIGHT	2	20	8 HOURS
OMEGA BLOCKGROUND FLOORROOM NUMBER 12LED TUBE LIGHT220OMEGA BLOCKGROUND FLOORROOM NUMBER 13LED TUBE LIGHT220OMEGA BLOCKGROUND FLOORROOM NUMBER 14LED TUBE LIGHT220OMEGA BLOCKGROUND FLOORROOM NUMBER 15LED TUBE LIGHT220OMEGA BLOCKGROUND FLOORROOM NUMBER 16LED TUBE LIGHT220OMEGA BLOCKGROUND FLOORROOM NUMBER 17LED TUBE LIGHT220OMEGA BLOCKGROUND FLOORROOM NUMBER 18LED TUBE LIGHT220	134	OMEGA BLOCK	GROUND FLOOR	ROOM NUMBER 10	LED TUBE LIGHT	2	20	8 HOURS
OMEGA BLOCKGROUND FLOORROOM NUMBER 12LED TUBE LIGHT220OMEGA BLOCKGROUND FLOORROOM NUMBER 14LED TUBE LIGHT220OMEGA BLOCKGROUND FLOORROOM NUMBER 15LED TUBE LIGHT220OMEGA BLOCKGROUND FLOORROOM NUMBER 16LED TUBE LIGHT220OMEGA BLOCKGROUND FLOORROOM NUMBER 17LED TUBE LIGHT220OMEGA BLOCKGROUND FLOORROOM NUMBER 18LED TUBE LIGHT220	135	OMEGA BLOCK	GROUND FLOOR	ROOM NUMBER 11	LED TUBE LIGHT	2	20	8 HOURS
OMEGA BLOCKGROUND FLOORROOM NUMBER 13LED TUBE LIGHT220OMEGA BLOCKGROUND FLOORROOM NUMBER 15LED TUBE LIGHT220OMEGA BLOCKGROUND FLOORROOM NUMBER 15LED TUBE LIGHT220OMEGA BLOCKGROUND FLOORROOM NUMBER 17LED TUBE LIGHT220OMEGA BLOCKGROUND FLOORROOM NUMBER 18LED TUBE LIGHT220	136	OMEGA BLOCK	GROUND FLOOR	ROOM NUMBER 12	LED TUBE LIGHT	2	20	8 HOURS
OMEGA BLOCKGROUND FLOORROOM NUMBER 14LED TUBE LIGHT220OMEGA BLOCKGROUND FLOORROOM NUMBER 15LED TUBE LIGHT220OMEGA BLOCKGROUND FLOORROOM NUMBER 17LED TUBE LIGHT220OMEGA BLOCKGROUND FLOORROOM NUMBER 17LED TUBE LIGHT220	137	OMEGA BLOCK	GROUND FLOOR	ROOM NUMBER 13	LED TUBE LIGHT	2	20	8 HOURS
OMEGA BLOCKGROUND FLOORROOM NUMBER 15LED TUBE LIGHT220OMEGA BLOCKGROUND FLOORROOM NUMBER 17LED TUBE LIGHT220OMEGA BLOCKGROUND FLOORROOM NUMBER 18LED TUBE LIGHT220	138	OMEGA BLOCK	GROUND FLOOR	ROOM NUMBER 14	LED TUBE LIGHT	2	20	8 HOURS
OMEGA BLOCKGROUND FLOORROOM NUMBER 15LED TUBE LIGHT220OMEGA BLOCKGROUND FLOORROOM NUMBER 18LED TUBE LIGHT220	139	OMEGA BLOCK	GROUND FLOOR	ROOM NUMBER 15	LED TUBE LIGHT	2	20	8 HOURS
OMEGA BLOCKGROUND FLOORROOM NUMBER 13LED TUBE LIGHT220OMEGA BLOCKGROUND FLOORROOM NUMBER 18LED TUBE LIGHT220	140	OMEGA BLOCK	GROUND FLOOR	ROOM NUMBER 16	LED TUBE LIGHT	2	20	8 HOURS
OMEGA BLOCK GROUND FLOOR ROOM NUMBER 18 LED TUBE LIGHT 2 20	141	OMEGA BLOCK	GROUND FLOOR	ROOM NUMBER 17	LED TUBE LIGHT	2	20	8 HOURS
	142	OMEGA BLOCK	GROUND FLOOR	ROOM NUMBER 18	LED TUBE LIGHT	2	20	8 HOURS

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	NAME OF THE BLOCK	FLOOR	LOCATION	TYPE OF LIGHT	NO OF LIGHTS	WATTAGE	OPERATING HOURS
143	OMEGA BLOCK	GROUND FLOOR	ROOM NUMBER 19	LED TUBE LIGHT	2	20	8 HOURS
144	OMEGA BLOCK	GROUND FLOOR	ROOM NUMBER 20	LED TUBE LIGHT	2	20	8 HOURS
145 (OMEGA BLOCK	GROUND FLOOR	ROOM NUMBER 21	LED TUBE LIGHT	2	20	8 HOURS
146 (OMEGA BLOCK	GROUND FLOOR	ROOM NUMBER 22	LED TUBE LIGHT	2	20	8 HOURS
147 (OMEGA BLOCK	GROUND FLOOR	ROOM NUMBER 23	LED TUBE LIGHT	1	20	8 HOURS
148 (OMEGA BLOCK	GROUND FLOOR	2 COMMON REST ROOM (MEN)	LED TUBE LIGHT	10	20	8 HOURS
149 (OMEGA BLOCK	GROUND FLOOR	PASSAGE AREA	LED TUBE LIGHT	10	20	8 HOURS
150 (OMEGA BLOCK	FRIST FLOOR	ROOM NUMBER 1	LED TUBE LIGHT	1	20	8 HOURS
151 (OMEGA BLOCK	FRIST FLOOR	ROOM NUMBER 2	LED TUBE LIGHT	2	20	8 HOURS
152 (OMEGA BLOCK	FRIST FLOOR	ROOM NUMBER 3	LED TUBE LIGHT	2	20	8 HOURS
153 (OMEGA BLOCK	FRIST FLOOR	ROOM NUMBER 4	LED TUBE LIGHT	2	20	8 HOURS
154 (OMEGA BLOCK	FRIST FLOOR	ROOM NUMBER 5	LED TUBE LIGHT	2	20	8 HOURS
155 (OMEGA BLOCK	FRIST FLOOR	ROOM NUMBER 6	LED TUBE LIGHT	2	20	8 HOURS
156 (OMEGA BLOCK	FRIST FLOOR	ROOM NUMBER 7	LED TUBE LIGHT	2	20	8 HOURS
157 (OMEGA BLOCK	FRIST FLOOR	ROOM NUMBER 8	LED TUBE LIGHT	2	20	8 HOURS
158 (OMEGA BLOCK	FRIST FLOOR	ROOM NUMBER 9	LED TUBE LIGHT	2	20	8 HOURS
159 (OMEGA BLOCK	FRIST FLOOR	ROOM NUMBER 10	LED TUBE LIGHT	2	20	8 HOURS
160	OMEGA BLOCK	FRIST FLOOR	ROOM NUMBER 11	LED TUBE LIGHT	2	20	8 HOURS
161 (OMEGA BLOCK	FRIST FLOOR	ROOM NUMBER 12	LED TUBE LIGHT	2	20	8 HOURS
162 (OMEGA BLOCK	FRIST FLOOR	ROOM NUMBER 13	LED TUBE LIGHT	1	20	8 HOURS
163	OMEGA BLOCK	FRIST FLOOR	PASSAGE AREA	LED TUBE LIGHT	8	20	8 HOURS

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5.NO NAME OF THE BLOCK FLOOR LOCATION TYPE OF LIGHT % OF MECHANIAN WATTAGE OPERATING HOURS 164 OMEGA BLOCK FRIST FLOOR 1 COMMON REAT LED TUBE LIGHT 16 20 8 HOURS 165 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 1 LED TUBE LIGHT 1 20 8 HOURS 167 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 2 LED TUBE LIGHT 2 2 8 HOURS 168 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 3 LED TUBE LIGHT 2 2 8 HOURS 170 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 5 LED TUBE LIGHT 2 2 8 HOURS 171 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 5 LED TUBE LIGHT 2 2 8 HOURS 173 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 9 LED TUBE LIGHT 2 2 8 HOURS 174 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 1 LED TUBE LIGHT 2 2 8 HOURS </th <th></th> <th></th> <th></th> <th>LIGHT DETAILS</th> <th></th> <th></th> <th></th> <th></th>				LIGHT DETAILS				
OMEGA BLOCK FRIST FLOOR 1 COMMON REST LED TUBE LIGHT 5 20 OMEGA BLOCK FRIST FLOOR ROOM MUMBER 1 LED TUBE LIGHT 16 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 3 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 3 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 3 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 4 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 9 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 9 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 10 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 11 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR	S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	TYPE OF LIGHT	NO OF LIGHTS	WATTAGE	OPERATING HOURS
OMEGA BLOCK FRIST FLOOR DINING HALL LED TUBE LIGHT 16 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 1 LED TUBE LIGHT 20 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 3 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 4 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 5 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 7 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 8 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 10 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 11 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOO	164	OMEGA BLOCK	FRIST FLOOR	1 COMMON REST ROOM (MEN)	LED TUBE LIGHT	5	20	8 HOURS
OMEGA BLOCK SECOND FLOOR ROOM NUMBER 1 LED TUBE LIGHT 1 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 3 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 4 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 5 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 7 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 7 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 10 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 11 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 15 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 15 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FL	165	OMEGA BLOCK	FRIST FLOOR	DINING HALL	LED TUBE LIGHT	16	20	8 HOURS
OMEGA BLOCK SECOND FLOOR ROOM NUMBER 3 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 4 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 5 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 6 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 9 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 9 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 10 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FL	166	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 1	LED TUBE LIGHT	1	20	8 HOURS
OMEGA BLOCK SECOND FLOOR ROOM NUMBER 3 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 5 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 6 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 7 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 8 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 9 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FL	167	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 2	LED TUBE LIGHT	2	20	8 HOURS
OMEGA BLOCK SECOND FLOOR ROOM NUMBER 3 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 5 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 7 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 9 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 10 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 11 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 12 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND	168	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 3	LED TUBE LIGHT	2	20	8 HOURS
OMEGA BLOCK SECOND FLOOR ROOM NUMBER 6 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 7 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 3 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 10 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 10 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 11 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 14 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 14 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND	169	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 4	LED TUBE LIGHT	2	20	8 HOURS
OMEGA BLOCK SECOND FLOOR ROOM NUMBER OF LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER OF LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER OF LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 10 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 11 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 12 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 14 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 15 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK SEC	170	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 5	LED TUBE LIGHT	2	20	8 HOURS
OMEGA BLOCK SECOND FLOOR ROOM NUMBER 3 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 9 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 10 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 12 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 14 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 15 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 16 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 16 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 18 LED TUBE LIGHT 2 20 OMEGA BLOCK SECON	171	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 6	LED TUBE LIGHT	2	20	8 HOURS
OMEGA BLOCK SECOND FLOOR ROOM NUMBER 9 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 10 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 11 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 14 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 15 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 15 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 15 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 16 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 18 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 18 LED TUBE LIGHT 2 20	172	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 7	LED TUBE LIGHT	2	20	8 HOURS
OMEGA BLOCK SECOND FLOOR ROOM NUMBER 10 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 11 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 12 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 14 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 15 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 16 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 16 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 19 LED TUBE LIGHT 2 20	173	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 8	LED TUBE LIGHT	2	20	8 HOURS
OMEGA BLOCK SECOND FLOOR ROOM NUMBER 10 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 12 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 14 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 15 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 16 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 17 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 13 LED TUBE LIGHT 2 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 18 LED TUBE LIGHT 2 20	174	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 9	LED TUBE LIGHT	2	20	8 HOURS
OMEGA BLOCKSECOND FLOORROOM NUMBER 12LED TUBE LIGHT220OMEGA BLOCKSECOND FLOORROOM NUMBER 13LED TUBE LIGHT220OMEGA BLOCKSECOND FLOORROOM NUMBER 14LED TUBE LIGHT220OMEGA BLOCKSECOND FLOORROOM NUMBER 15LED TUBE LIGHT220OMEGA BLOCKSECOND FLOORROOM NUMBER 16LED TUBE LIGHT220OMEGA BLOCKSECOND FLOORROOM NUMBER 17LED TUBE LIGHT220OMEGA BLOCKSECOND FLOORROOM NUMBER 18LED TUBE LIGHT220OMEGA BLOCKSECOND FLOORROOM NUMBER 18LED TUBE LIGHT220	175	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 10	LED TUBE LIGHT	2	20	8 HOURS
OMEGA BLOCKSECOND FLOORROOM NUMBER 13LED TUBE LIGHT220OMEGA BLOCKSECOND FLOORROOM NUMBER 14LED TUBE LIGHT220OMEGA BLOCKSECOND FLOORROOM NUMBER 15LED TUBE LIGHT220OMEGA BLOCKSECOND FLOORROOM NUMBER 16LED TUBE LIGHT220OMEGA BLOCKSECOND FLOORROOM NUMBER 17LED TUBE LIGHT220OMEGA BLOCKSECOND FLOORROOM NUMBER 18LED TUBE LIGHT220OMEGA BLOCKSECOND FLOORROOM NUMBER 18LED TUBE LIGHT220	176	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 11	LED TUBE LIGHT	2	20	8 HOURS
OMEGA BLOCKSECOND FLOORROOM NUMBER 13LED TUBE LIGHT220OMEGA BLOCKSECOND FLOORROOM NUMBER 15LED TUBE LIGHT220OMEGA BLOCKSECOND FLOORROOM NUMBER 16LED TUBE LIGHT220OMEGA BLOCKSECOND FLOORROOM NUMBER 17LED TUBE LIGHT220OMEGA BLOCKSECOND FLOORROOM NUMBER 18LED TUBE LIGHT220OMEGA BLOCKSECOND FLOORROOM NUMBER 18LED TUBE LIGHT220	177	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 12	LED TUBE LIGHT	2	20	8 HOURS
OMEGA BLOCKSECOND FLOORROOM NUMBER 14LED TUBE LIGHT220OMEGA BLOCKSECOND FLOORROOM NUMBER 15LED TUBE LIGHT220OMEGA BLOCKSECOND FLOORROOM NUMBER 17LED TUBE LIGHT220OMEGA BLOCKSECOND FLOORROOM NUMBER 18LED TUBE LIGHT220OMEGA BLOCKSECOND FLOORROOM NUMBER 18LED TUBE LIGHT220	178	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 13	LED TUBE LIGHT	2	20	8 HOURS
OMEGA BLOCKSECOND FLOORROOM NUMBER 15LED TUBE LIGHT220OMEGA BLOCKSECOND FLOORROOM NUMBER 17LED TUBE LIGHT220OMEGA BLOCKSECOND FLOORROOM NUMBER 13LED TUBE LIGHT220OMEGA BLOCKSECOND FLOORROOM NUMBER 18LED TUBE LIGHT220	179	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 14	LED TUBE LIGHT	2	20	8 HOURS
OMEGA BLOCKSECOND FLOORROOM NUMBER 16LED TUBE LIGHT220OMEGA BLOCKSECOND FLOORROOM NUMBER 18LED TUBE LIGHT220OMEGA BLOCKSECOND FLOORROOM NUMBER 18LED TUBE LIGHT220	180	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 15	LED TUBE LIGHT	2	20	8 HOURS
OMEGA BLOCKSECOND FLOORROOM NUMBER 13LED TUBE LIGHT220OMEGA BLOCKSECOND FLOORROOM NUMBER 19LED TUBE LIGHT220	181	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 16	LED TUBE LIGHT	2	20	8 HOURS
OMEGA BLOCK SECOND FLOOR ROOM NUMBER 18 LED TUBE LIGHT 2 20 20 OMEGA BLOCK SECOND FLOOR ROOM NUMBER 19 LED TUBE LIGHT 2 20 20	182	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 17	LED TUBE LIGHT	2	20	8 HOURS
OMEGA BLOCK SECOND FLOOR ROOM NUMBER 19 LED TUBE LIGHT 2 20	183	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 18	LED TUBE LIGHT	2	20	8 HOURS
	184	OMEGA BLOCK	SECOND FLOOR	ROOM NUMBER 19	LED TUBE LIGHT	2	20	8 HOURS

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OPERATING HOURS 8 HOURS 8 HOURS **8 HOURS** 8 HOURS 8 HOURS 8 HOURS 8 HOURS **8 HOURS** 8 HOURS WATTAGE 20 20 20 20 20 20 LIGHTS NO OF 10 10 7 \vdash 7 7 7 7 7 7 7 7 7 7 7 7 7 ~ 7 LED TUBE LIGHT **TYPE OF LIGHT LIGHT DETAILS ROOM NUMBER 10 ROOM NUMBER 13 ROOM NUMBER 14 ROOM NUMBER 15 ROOM NUMBER 16 ROOM NUMBER 20 ROOM NUMBER 11 ROOM NUMBER 12 ROOM NUMBER 21 ROOM NUMBER 22 ROOM NUMBER 2 ROOM NUMBER 3 ROOM NUMBER 4 ROOM NUMBER 5 ROOM NUMBER 6 ROOM NUMBER 8 ROOM NUMBER 9 ROOM NUMBER 1 ROOM NUMBER 7** 2 COMMON REST PASSAGE AREA ROOM (MEN) LOCATION SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR SECOND FLOOR Third floor FLOOR NAME OF THE BLOCK OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK** S. NO 186 188 190 193 195 196 198 199 200 202 203 204 185 187 189 191 192 194 197 201 187

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OPERATING HOURS 8 HOURS WATTAGE 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 LIGHTS NO OF 10 10 7 6 6 7 7 7 6 6 6 6 6 6 LED TUBE LIGHT FALSE CEILING **TYPE OF LIGHT** FALSE CEILING FALSE CEILING FALSE CEILING FALSE CEILING FALSE CEILING FALSE CEILING LIGHT LIGHT LIGHT LIGHT LIGHT LIGHT LIGHT **LIGHT DETAILS ROOM NUMBER 18 ROOM NUMBER 19** ROOM NUMBER 20 **ROOM NUMBER 17 ROOM NUMBER 21 ROOM NUMBER 22** 2 COMMON REST PASSAGE AREA ROOM (MEN) LOCATION **Z**G2 **Z**G3 **Z**G2 99Z **ZG8** ZG1 ZG4 **Z**₆7 SECOND FLOOR GROUND FLOOR **GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR** SECOND FLOOR Third floor Third floor Third floor Third floor Third floor Third floor FLOOR NAME OF THE BLOCK **OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** ZEETA ZEETA ZEETA ZEETA ZEETA ZEETA ZEETA ZEETA S. NO 208 210 205 206 207 209 211 212 213 214 215 216 217 218 219 220

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OPERATING HOURS 8 HOURS **8 HOURS** WATTAGE 20 20 20 20 20 20 20 20 20 LIGHTS NO OF 11 7 4 2 2 6 6 6 6 6 6 7 7 7 7 LED TUBE LIGHT FALSE CEILING **TYPE OF LIGHT** FALSE CEILING FALSE CEILING FALSE CEILING FALSE CEILING FALSE CEILING LIGHT LIGHT LIGHT LIGHT LIGHT **LIGHT DETAILS WOMENS REST ROOM ROOM NUMBER 4 ROOM NUMBER 1 ROOM NUMBER 2 ROOM NUMBER 3 MEN REST ROOM** PASSAGE AREA LOCATION ZG18 ZG10 ZG12 ZG13 ZG14 ZG15 ZG16 ZG17 ZG11 69Z **GROUND FLOOR** GROUND FLOOR **GROUND FLOOR GROUND FLOOR** GROUND FLOOR **GROUND FLOOR** GROUND FLOOR **GROUND FLOOR GROUND FLOOR** FLOOR NAME OF THE BLOCK Sigma BLOCK Sigma BLOCK Sigma BLOCK Sigma BLOCK ZEETA S. NO 223 224 225 226 228 229 230 230 231 232 233 234 235 236 221 222 227

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OPERATING HOURS 8 HOURS 8 HOURS WATTAGE 2 2 2 2 20 LIGHTS 10 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 LED TUBE LIGHT **TYPE OF LIGHT LIGHT DETAILS ROOM NUMBER 14 ROOM NUMBER 15 ROOM NUMBER 16 ROOM NUMBER 18 ROOM NUMBER 19** ROOM NUMBER 20 **ROOM NUMBER 10 ROOM NUMBER 12 ROOM NUMBER 13 ROOM NUMBER 17 ROOM NUMBER 22 ROOM NUMBER 23 ROOM NUMBER 24 ROOM NUMBER 5 ROOM NUMBER 6 ROOM NUMBER 8 ROOM NUMBER 9 ROOM NUMBER 11 ROOM NUMBER 21 ROOM NUMBER 7** 2 WOMENS REAST LOCATION ROOM **GROUND FLOOR** GROUND FLOOR **GROUND FLOOR GROUND FLOOR** GROUND FLOOR **GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR** GROUND FLOOR **GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR** GROUND FLOOR **GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR** FLOOR NAME OF THE BLOCK **ALPHA BLOCK** Sigma BLOCK S. NO 239 240 242 243 244 245 246 247 248 249 250 253 256 238 241 251 252 254 255 257 237

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			LIGHT DETAILS				
S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	TYPE OF LIGHT	NO OF LIGHTS	WATTAGE	OPERATING HOURS
258	ALPHA BLOCK	GROUND FLOOR	PASSAGE AREA	FALSE CEILING LIGHT	10	20	8 HOURS
259	ALPHA BLOCK	GROUND FLOOR	STAFF ROOMS	LED TUBE LIGHT	16	20	8 HOURS
260	ALPHA BLOCK	GROUND FLOOR	SRATT ROOM S	FALSE CEILING LIGHT	14	20	8 HOURS
261	ALPHA BLOCK	GROUND FLOOR	2 REST ROOM	LED TUBE LIGHT	2	20	8 HOURS
262	ALPHA BLOCK	FRIST FLOOR	PASSAGE AREA /STAFF ROOM	LED TUBE LIGHT	20	20	8 HOURS
263	ALPHA BLOCK	FRIST FLOOR	SOFTWARE ROOM	FALSE CEILING LIGHT	21	20	8 HOURS
264	ALPHA BLOCK	FRIST FLOOR	2 REST ROOMS	LED TUBE LIGHT	5	20	8 HOURS
265	ALPHA BLOCK	SECOND FLOOR	PASSAGE AREA	LED TUBE LIGHT	5	20	8 HOURS
266	ALPHA BLOCK	SECOND FLOOR	ROOMS	FALSE CEILING LIGHT	53	20	8 HOURS
267	THETA BLOCK	Ground floor	DINING AREA AND LIBRARY	LED TUBE LIGHT	45	20	
268	THETA BLOCK	FRIST FLOOR	DINING AREA	LED TUBE LIGHT	27	20	

21.0 CONVENTIONAL FAN DETSILS

The conventional fan details area as follows.

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OPERATING HOURS 8 HOURS 8 HOURS 8 HOURS 8 HOURS 8 HOURS 8 HOURS **8 HOURS** 8 HOURS 8 HOURS 8 HOURS **8 HOURS** 8 HOURS WATTAGE 80 NO OF FANS 4 ∞ 7 9 9 4 7 4 2 \vdash 9 $^{\circ}$ \vdash S 4 7 7 2 **CEILING FAN DETAILS** LOCATION BG10 BG13 BG16 BG11 BG15 BG12 **BF10** BG2 BG3 BG4 BG5 **B**G6 BG8 **B**G9 BF2 BF3 BF4 BF5 BF6 BF9 **BF11** BF1 **GROUND FLOOR GROUND FLOOR** FRIST FLOOR NAME OF THE BLOCK **BETA BKLOCK BETA BKLOCK** BETA BKLOCK **BETA BKLOCK BETA BKLOCK BETA BKLOCK BETA BKLOCK BETA BKLOCK BETA BKLOCK** BETA BKLOCK **BETA BKLOCK BETA BKLOCK BETA BKLOCK BETA BKLOCK BETA BKLOCK** S. NO 10 12 13 14 15 16 17 18 19 20 21 11 22 23 ო Н ~ 4 Ŋ 9 / ∞ 6

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OPERATING HOURS 8 HOURS WATTAGE 8 8 8 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 **NO OF FANS** 9 7 9 9 / 9 9 9 9 4 Т 9 2 9 9 4 ന **CEILING FAN DETAILS** LOCATION **BF18 BF13 BF14 BF19 BF20 BS10 BS14** BS16 **BF17** BS1 **BS3 BS5 BS6 BS8 BS9 BS11 BS12 BS13 BS17 BS2 BS4** BS7 SECOND FLOOR FRIST FLOOR NAME OF THE BLOCK **BETA BKLOCK** BETA BKLOCK **BETA BKLOCK BETA BKLOCK** BETA BKLOCK BETA BKLOCK **BETA BKLOCK BETA BKLOCK** S. NO 35 24 25 26 28 29 30 31 32 33 34 38 33 40 41 42 43 4 45 37

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OPERATING HOURS 8 HOURS **8 HOURS** 8 HOURS WATTAGE 80 **NO OF FANS** 9 ∞ က 9 9 / 6 က 2 2 4 $^{\circ}$ \mathfrak{C} ന $^{\circ}$ $^{\circ}$ $^{\circ}$ **CEILING FAN DETAILS** LOCATION **BS18** BT10 BT13 **BT16 BT19** BT11 BT17 **BT18** BT20 BT22 BT1 BT2 **BT6 BT9 BT12** BT21 **BT23** DG1 DG2 DG3 SECOND FLOOR **Ground floor Ground floor Ground floor** Third floor NAME OF THE BLOCK **BETA BKLOCK BETA BKLOCK DELTA BLOCK DELTA BLOCK DELTA BLOCK BETA BKLOCK BETA BKLOCK BETA BKLOCK BETA BKLOCK BETA BKLOCK** S. NO 47 48 49 20 51 23 24 22 26 57 58 59 9 61 62 63 64 **6**2 99 89 69 **67** 52

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			CEILING FAN DETAILS			
S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	NO OF FANS	WATTAGE	OPERATING HOURS
70	DELTA BLOCK	Ground floor	DG4	5	80	8 HOURS
7.1	DELTA BLOCK	Ground floor	DG5	2	80	8 HOURS
72	DELTA BLOCK	Ground floor	DG6	5	80	8 HOURS
73	DELTA BLOCK	Ground floor	DG7	5	80	8 HOURS
74	DELTA BLOCK	Ground floor	DG8	5	80	8 HOURS
75	DELTA BLOCK	Ground floor	DG9	2	80	8 HOURS
9/	DELTA BLOCK	Ground floor	DG10	2	80	8 HOURS
77	DELTA BLOCK	Ground floor	DG11	က	80	8 HOURS
78	DELTA BLOCK	Ground floor	DG12	1	80	8 HOURS
79	DELTA BLOCK	Ground floor	DG13	1	80	8 HOURS
80	DELTA BLOCK	Ground floor	DG14	10	80	8 HOURS
81	DELTA BLOCK	Ground floor	DG15	1	80	8 HOURS
82	DELTA BLOCK	Ground floor	DG16	3	80	8 HOURS
83	DELTA BLOCK	Ground floor	DG17	5	80	8 HOURS
84	DELTA BLOCK	Ground floor	DG18	1	80	8 HOURS
85	DELTA BLOCK	FRIST FLOOR	DF1	13	80	8 HOURS
98	DELTA BLOCK	FRIST FLOOR	DF2	10	80	8 HOURS
87	DELTA BLOCK	FRIST FLOOR	DF3	7	80	8 HOURS
88	DELTA BLOCK	FRIST FLOOR	DF4	∞	80	8 HOURS
88	DELTA BLOCK	FRIST FLOOR	DF5	14	80	8 HOURS
90	DELTA BLOCK	FRIST FLOOR	DF6	14	80	8 HOURS
91	DELTA BLOCK	FRIST FLOOR	DF7	9	80	8 HOURS
92	DELTA BLOCK	FRIST FLOOR	DF8	4	80	8 HOURS

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OPERATING HOURS 8 HOURS 8 HOURS 8 HOURS 8 HOURS 8 HOURS 8 HOURS **8 HOURS** 8 HOURS **8 HOURS** 8 HOURS WATTAGE 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 NO OF FANS 10 ∞ 9 က 9 9 9 9 6 9 ∞ 9 9 9 ∞ $^{\circ}$ 4 _ $^{\circ}$ **ROOM NUMBER 2 ROOM NUMBER 3 ROOM NUMBER 4 ROOM NUMBER 1 CEILING FAN DETAILS** LOCATION DT10 **DS10** DS2 DS3 DS4 DS5 DS6 DS7 DS8 DS9 DT1 DT2 DT4 DT5 DT7 DT9 **GROUND FLOOR GROUND FLOOR GROUND FLOOR GROUND FLOOR** SECOND FLOOR FRIST FLOOR Third floor FLOOR NAME OF THE BLOCK **OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK** OMEGA BLOCK **DELTA BLOCK DELTA BLOCK** S. NO 102 104 105 106 108 109 110 111 113 114 115 100 101 103 107 112 66 94 96 98

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OPERATING HOURS 8 HOURS 8 HOURS 8 HOURS 8 HOURS 8 HOURS 8 HOURS **8 HOURS** 8 HOURS 8 HOURS 8 HOURS 8 HOURS **8 HOURS** 8 HOURS **8 HOURS** 8 HOURS 8 HOURS 8 HOURS WATTAGE 80 80 80 80 80 80 8 8 8 80 80 80 80 80 80 80 80 80 **NO OF FANS** က $^{\circ}$ $^{\circ}$ 3 $^{\circ}$ m α $^{\circ}$ $^{\circ}$ $^{\circ}$ m 3 m $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ **ROOM NUMBER 10 ROOM NUMBER 12 ROOM NUMBER 13 ROOM NUMBER 14 ROOM NUMBER 15 ROOM NUMBER 16 ROOM NUMBER 18 ROOM NUMBER 19 ROOM NUMBER 20 ROOM NUMBER 23 ROOM NUMBER 9 ROOM NUMBER 11 ROOM NUMBER 17 ROOM NUMBER 21 ROOM NUMBER 22 ROOM NUMBER 5 ROOM NUMBER 6 ROOM NUMBER 8 ROOM NUMBER 2 ROOM NUMBER 3 ROOM NUMBER 4 ROOM NUMBER 7 ROOM NUMBER 1 CEILING FAN DETAILS** LOCATION **GROUND FLOOR GROUND FLOOR** FRIST FLOOR FRIST FLOOR FRIST FLOOR **FRIST FLOOR** NAME OF THE BLOCK **OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK** S. NO 116 118 119 120 124 125 126 129 133 134 135 136 117 121 122 123 127 128 130 131 132 137 138

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OPERATING HOURS 8 HOURS 8 HOURS **8 HOURS** 8 HOURS 8 HOURS **8 HOURS** 8 HOURS 8 HOURS 8 HOURS 8 HOURS 8 HOURS **8 HOURS** 8 HOURS 8 HOURS 8 HOURS 8 HOURS **8 HOURS** 8 HOURS 8 HOURS 8 HOURS 8 HOURS 8 HOURS WATTAGE 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 NO OF FANS 18 က $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ α $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ α ന $^{\circ}$ $^{\circ}$ $^{\circ}$ 3 $^{\circ}$ 3 **ROOM NUMBER 10 ROOM NUMBER 11 ROOM NUMBER 10 ROOM NUMBER 12 ROOM NUMBER 13 ROOM NUMBER 14 ROOM NUMBER 5 ROOM NUMBER 9 ROOM NUMBER 12 ROOM NUMBER 8 ROOM NUMBER 11 ROOM NUMBER 6 ROOM NUMBER 8 ROOM NUMBER 3 ROOM NUMBER 4 ROOM NUMBER 5 ROOM NUMBER 6 ROOM NUMBER 9 ROOM NUMBER 7 ROOM NUMBER 1 ROOM NUMBER 2 ROOM NUMBER 7 DINING HALL CEILING FAN DETAILS** LOCATION SECOND FLOOR FRIST FLOOR NAME OF THE BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK** S. NO 139 140 143 145 146 148 149 154 155 156 159 141 142 144 147 150 151 152 153 157 158 160 161

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OPERATING HOURS 8 HOURS **8 HOURS** 8 HOURS **8 HOURS** 8 HOURS 8 HOURS 8 HOURS WATTAGE 80 80 80 80 80 80 8 8 8 80 80 80 80 80 80 80 80 80 **NO OF FANS** $^{\circ}$ $^{\circ}$ $^{\circ}$ 3 α α $^{\circ}$ $^{\circ}$ $^{\circ}$ m 3 m $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ **ROOM NUMBER 15 ROOM NUMBER 16 ROOM NUMBER 18 ROOM NUMBER 19 ROOM NUMBER 20** ROOM NUMBER 10 **ROOM NUMBER 11 ROOM NUMBER 12 ROOM NUMBER 13 ROOM NUMBER 14 ROOM NUMBER 15 ROOM NUMBER 17 ROOM NUMBER 21** ROOM NUMBER 22 **ROOM NUMBER 6 ROOM NUMBER 9 ROOM NUMBER 3 ROOM NUMBER 4 ROOM NUMBER 5 ROOM NUMBER 8 ROOM NUMBER 1 ROOM NUMBER 2 ROOM NUMBER 7 CEILING FAN DETAILS** LOCATION SECOND FLOOR Third floor NAME OF THE BLOCK **OMEGA BLOCK** OMEGA BLOCK OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK** S. NO 166 169 170 173 174 175 176 178 179 180 162 163 164 165 167 168 171 172 177 181 182 183 184

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OPERATING HOURS 8 HOURS **8 HOURS** 8 HOURS WATTAGE 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 **NO OF FANS** ന ന 9 9 9 9 9 9 9 9 4 4 2 $^{\circ}$ 3 α 6 m 4 **ROOM NUMBER 16 ROOM NUMBER 18 ROOM NUMBER 19 ROOM NUMBER 20 ROOM NUMBER 22 ROOM NUMBER 17 ROOM NUMBER 21 CEILING FAN DETAILS** LOCATION ZG16 ZG10 ZG12 ZG14 ZG15 ZG11 ZG13 ZG2 ZG3 ZG4 **ZG**2 99Z ZG7 2G8 69Z ZG1 **GROUND FLOOR GROUND FLOOR** Third floor NAME OF THE BLOCK **OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK OMEGA BLOCK** OMEGA BLOCK **OMEGA BLOCK** ZEETA S. NO 185 186 195 200 202 203 204 205 206 187 188 189 190 191 192 193 194 196 197 198 199 201 207

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OPERATING HOURS 8 HOURS 8 HOURS 8 HOURS 8 HOURS 8 HOURS **8 HOURS** 8 HOURS 8 HOURS 8 HOURS 8 HOURS **8 HOURS** 8 HOURS 8 HOURS 8 HOURS 8 HOURS 8 HOURS 8 HOURS **8 HOURS** 8 HOURS 8 HOURS 8 HOURS WATTAGE 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 **NO OF FANS** 3 $^{\circ}$ ന m 7 $^{\circ}$ m 3 m $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ **ROOM NUMBER 10 ROOM NUMBER 11 ROOM NUMBER 13 ROOM NUMBER 14 ROOM NUMBER 15 ROOM NUMBER 16 ROOM NUMBER 17 ROOM NUMBER 18 ROOM NUMBER 19 ROOM NUMBER 20 ROOM NUMBER 6 ROOM NUMBER 9 ROOM NUMBER 12 ROOM NUMBER 4 ROOM NUMBER 5 ROOM NUMBER 8 ROOM NUMBER 2 ROOM NUMBER 3 ROOM NUMBER 7 ROOM NUMBER 1** PASSAGE AREA **CEILING FAN DETAILS** LOCATION ZG18 ZG17 **GROUND FLOOR GROUND FLOOR** GROUND FLOOR **GROUND FLOOR GROUND FLOOR** NAME OF THE BLOCK Sigma BLOCK ZEETA ZEETA ZEETA S. NO 210 213 214 215 216 218 219 220 223 224 225 226 228 208 209 211 212 217 221 222 227 229 230

NIN ENERGY INDIA PRIVATE LIMITED REPORT NO 1530

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			CEILING FAN DETAILS			
S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	NO OF FANS	WATTAGE	WATTAGE OPERATING HOURS
231	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 21	က	80	8 HOURS
232	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 22	က	80	8 HOURS
233	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 23	1	80	8 HOURS
234	Sigma BLOCK	GROUND FLOOR	ROOM NUMBER 24	Т	80	8 HOURS
235	ALPHA BLOCK	GROUND FLOOR	STAFF ROOMS	17	80	8 HOURS
236	ALPHA BLOCK	FRIST FLOOR	STAFF ROOMS	18	80	8 HOURS
237	THETA BLOCK	Ground floor	DINING AREA AND LIBRARY	39	80	8 HOURS
238	THETA BLOCK	FRIST FLOOR	DINING AREA	18	80	8 HOURS

22.0 AIR CONDITIONER DETAILS

The air conditioner details area are follows.

			AIR CONDITIONER DETAILS	NER DET	AILS		
S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	MAKE	MODEL (Split / Window)	NO OF AC'S	OPERATING HOURS
1	BETA BLOCK	GROUND FLOOR	SEVER ROOM	HITACHI	SPILT	1	8 HOURS
7	BETA BLOCK	FRIST FLOOR	PLACEMENT OFFICE	HITACHI	SPILT	1	8 HOURS
m	BETA BLOCK	FRIST FLOOR	MEETING ROOM	CARRIER	DUCTED A/C (5 TON)	1	8 HOURS
4	BETA BLOCK	FRIST FLOOR	MEETING ROOM	CARRIER	DUCTED A/C (8 TON)	1	8 HOURS
Ŋ	DELTA BLOCK	GROUND FLOOR	PRINCIPAL ROOM	HITACHI	SPILT	1	8HOURS
9	DELTA BLOCK	GROUND FLOOR	COMPUTER LAB	HITACHI	SPILT	1	8HOURS
7	DELTA BLOCK	GROUND FLOOR	COMPUTER LAB	HITACHI	SPILT	П	8HOURS

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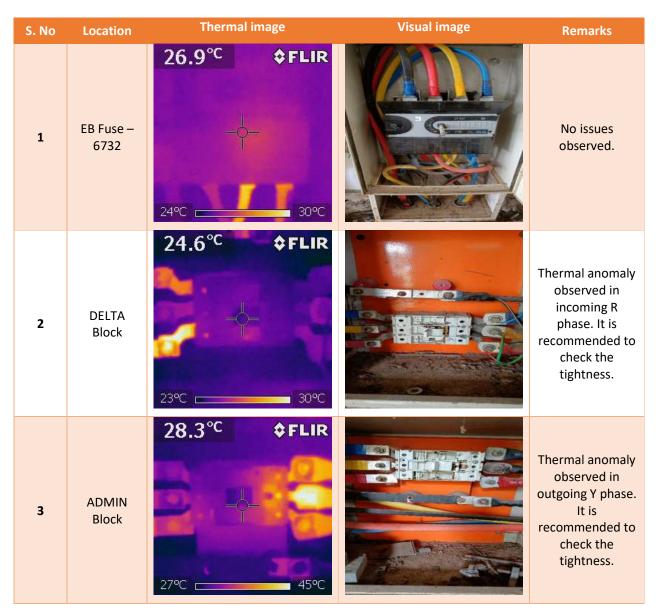
			AIR CONDITIONER DETAILS	NER DET	AILS		
S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	MAKE	MODEL (Split / Window)	NO OF AC'S	OPERATING HOURS
œ	DELTA BLOCK	THIRD FLOOR	MEETING ROOM	CARRIER	DUCTED A/C (5 TON)	1	8HOURS
6	ZEETA BLOCK	GROUND FLOOR	LAB	HITACHI	SPILT	1	8HOURS
10	ALPHA BLOCK	GROUND FLOOR	PRINCIPAL ROOM	HITACHI	SPILT	1	8HOURS
11	ALPHA BLOCK	GROUND FLOOR	STAFF ROOM	HITACHI	SPILT	1	8HOURS
12	ALPHA BLOCK	GROUND FLOOR	STAFF ROOM	HITACHI	SPILT	1	8HOURS
13	ALPHA BLOCK	FRIST FLOOR	SEVER ROOM	HITACHI	SPILT	1	8HOURS
14	ALPHA BLOCK	FRIST FLOOR	STAFF ROOM	HITACHI	SPILT	1	8HOURS
15	ALPHA BLOCK	FRIST FLOOR	STAFF ROOM	HITACHI	SPILT	1	8HOURS
16	ALPHA BLOCK	FRIST FLOOR	SOFTWARE	Pl	SPILT	1	8HOURS
17	ALPHA BLOCK	FRIST FLOOR	SOFTWARE	WESTER	SPILT	1	8HOURS
18	ALPHA BLOCK	FRIST FLOOR	SOFTWARE	WESTER	SPILT	П	8HOURS
19	ALPHA BLOCK	FRIST FLOOR	SOFTWARE	HITACHI	SPILT	1	8HOURS
20	ALPHA BLOCK	FRIST FLOOR	SOFTWARE	general	SPILT	1	8HOURS
21	ALPHA BLOCK	FRIST FLOOR	STAFF ROOM	HITACHI	SPILT	1	8HOURS
22	ALPHA BLOCK	SECOND FLOOR	CHIRMAN SIR ROOM	CARRIER	SPILT	1	8HOURS
23	ALPHA BLOCK	SECOND FLOOR	CHIRMAN SIR ROOM	CARRIER	SPILT	1	8HOURS
24	ALPHA BLOCK	SECOND FLOOR	COO SIR ROOM	CARRIER	SPILT	1	8HOURS
25	ALPHA BLOCK	SECOND FLOOR	DINING HALL	CARRIER	SPILT	П	8HOURS
56	ALPHA BLOCK	SECOND FLOOR	GUEST ROOM	CARRIER	SPILT	1	8HOURS

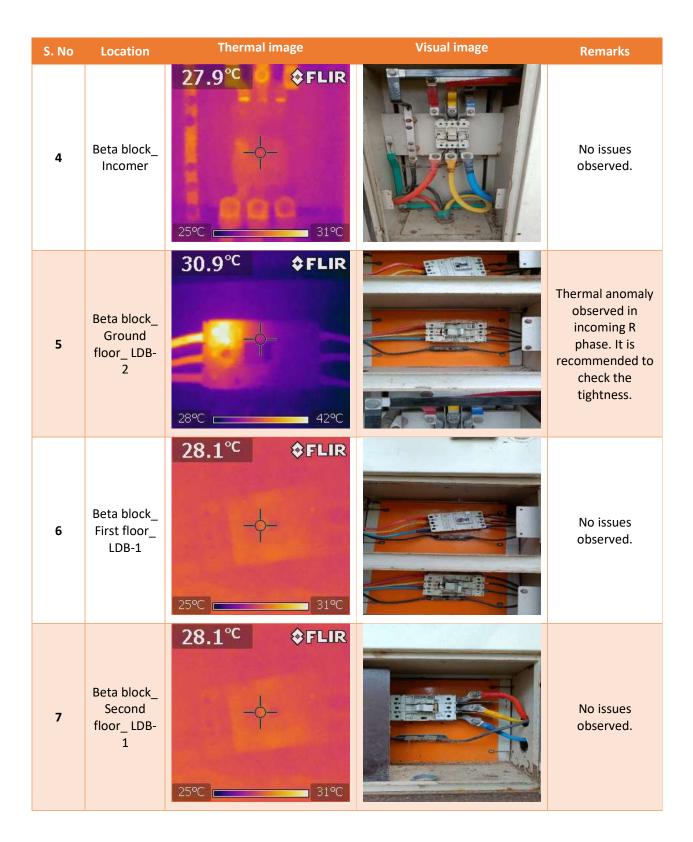
23.0 WALL MOUNTED FAN DETAILS

The wall mounted fan details are as follows.

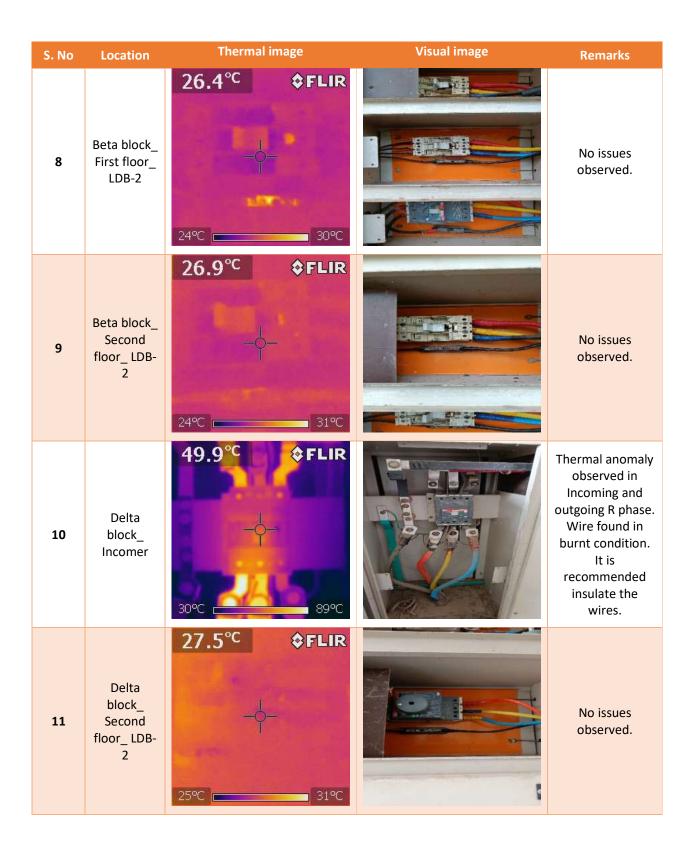
		WALL M	OUNTED FAN	DETAILS		
S. NO	NAME OF THE BLOCK	FLOOR	LOCATION	NO OF FANS	WATTAGE	OPERATING HOURS
1	ALPHA	GROUND FLOOR	STAFF ROOM 1	1	120	8 HOURS
2	ALPHA	GROUND FLOOR	STAFF ROOM 2	1	120	8 HOURS
3	ALPHA	GROUND FLOOR	STAFF ROOM 3	1	120	8 HOURS
4	ALPHA	GROUND FLOOR	STAFF ROOM 4	1	120	8 HOURS
5	ALPHA	GROUND FLOOR	STAFF ROOM 5	1	120	8 HOURS
6	ALPHA	FRIST FLOOR	SEVER ROOM	1	120	8 HOURS
7	ALPHA	FRIST FLOOR	SOFTWARE ROOM	8	120	8 HOURS
8	ALPHA	SECOND FLOOR	LAB	4	120	8 HOURS
9	ZEETA BLOCK	GROUND FLOOR	STAFF ROOM 1	1	120	8 HOURS
10	ZEETA BLOCK	GROUND FLOOR	STAFF ROOM 2	1	120	8 HOURS

24.0 THERMOGRAPHY STUDY

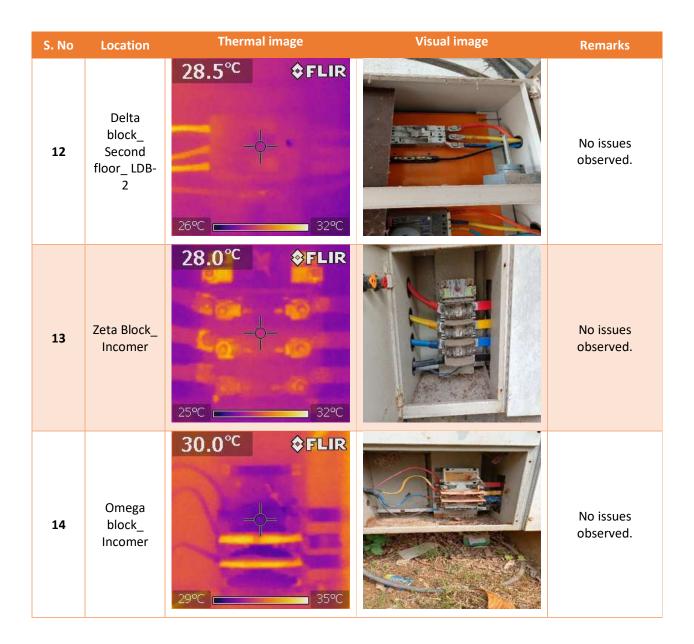




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25.0 EXECUTIVE SUMMARY

9	S. No	Energy Efficiency Measures	Estimate annual Energy Savings, kWh/Annum	Estimated Investment, INR	Monetary Savings, INR	Simple payback Period, Months
	1	Replace existing 29 Nos of 36W CFL to 18W LED Light	1,044	11,600	6,629	21
	2	Replace existing 1018 Nos of 80W Ceiling fan to 30W Energy efficient BLDC Fan	101800	3563000	6,46,430	66
	3	Replace existing 20 Nos of 120W Wall mounted fan to 30W Energy efficient BLDC Fan	3,600	70,000	22,860	37
	Total		1,06,444	36,44,600	6,75,919	41

Annual Electrical Energy consumption, kWh/Annum	3,50,706	
Annual Electrical Energy Savings, kWh/Annum	106444	
Electrical Energy Savings, %	30.4	

26.0 ENERGY CONSERVATIVE MEASURES

26.1 Replace existing Conventional fan to BLDC Fan

Observation:

During audit it was observed that conventional ceiling fans were used for ventilation purposes.

Recommendation:

It is recommended to replace those conventional ceiling fans with Energy efficient BLDC fans to observe the following energy savings.

Estimated Savings:

Replace existing Conventional fan to BLDC Fan				
Description	Units	Values		
Quantity of existing Conventional fan	Nos	1,018		
Wattage of Conventional fan	W	80		
Present operating hours	Hours/Annum	2,000		
Average unit cost	INR/kWh	6.35		
Energy Consumption by existing Conventional fan	kWh/Annum	1,62,880		
Wattage of BLDC Fan	W	30		
Energy Consumption by BLDC Fan	kWh/Annum	61,080		
Cost of one BLDC Fan	INR	3,500		
Energy savings	kWh/Annum	1,01,800		
Cost Savings	INR/Annum	6,46,430		
Investment	INR	35,63,000		
Payback Period	Months	66		

26.2 Replace existing Wall mounted fan to BLDC Fan

Observation:

During audit it was observed that conventional wall mounted fans were used for ventilation purposes.

Recommendation:

It is recommended to replace the conventional fan to BLDC fan to reduce energy consumption.

Estimated Savings:

Replace existing Wall mounted fan to BLDC Fan				
Description	Units	Values		
Quantity of existing Wall mounted fan	Nos	20		
Wattage of Wall Mounted fan	W	120		
Present operating hours	Hours/Annum	2,000		
Average unit cost	INR/kWh	6.35		
Energy Consumption by existing Wall mounted fan	kWh/Annum	4,800		
Wattage of BLDC Fan	W	30		
Energy Consumption by BLDC Fan	kWh/Annum	1,200		
Cost of one BLDC Fan	INR	3,500		
Energy savings	kWh/Annum	3,600		
Cost Savings	INR/Annum	22,860		
Investment	INR	70,000		
Payback Period	Months	37		

26.3 Replace Existing CFL light to LED light.

Observation:

During audit it was observed that few CFL lights were used for illumination purpose. CFL lights consumes high power than LED Lights.

Recommendation:

It is recommended to replace those CFL lights with LED lights for better lumens and to lower the power consumption. The lumens of CFL light are 63 per watt whereas the lumens of LED light is 120 per watt.

Estimated Savings:

Replace existing CFL to LED Light				
Description	Units	Values		
Quantity of existing CFL light	Nos	29		
Wattage of CFL	W	36		
Present operating hours	Hours/Annum	2,000		
Average unit cost	INR/kWh	6.35		
Energy Consumption by existing CFL Lights	kWh/Annum	2,088		
Wattage of LED	W	18		
Energy Consumption by LED	kWh/Annum	1,044		
Cost of one LED	INR	400		
Energy savings	kWh/Annum	1,044		
Cost Savings	INR/Annum	6,629		
Investment	INR	11,600		
Payback Period	Months	21		

27.0 ACCREDITED ENERGY AUDITOR CERTIFICATES



BUREAU OF ENERGY EFFICIENCY

Examination Registration No. AEA-0023

Accreditation Registration No. AEA-0023



Certificate of Accreditation

The certificate is subject to the provisions of the Bureau of Energy Efficiency (Qualifications for Accredited Energy Auditors and Maintenance of their List) Regulations, 2010.

This certificate shall be valid until it is cancelled under regulation 9 of the Bureau of Energy Efficiency (Qualifications for Accredited Energy Auditors and Maintenance of their List) Regulations, 2010

On cancellation, the certificate of accreditation shall be surrendered to the Bureau within fifteen days from the date of receipt of order of cancellation.

Your name has been entered at AEA No...0023.. in the register of list of accredited energy auditors. Your name shall be liable to be struck out on the grounds specified in regulation 8 of the Bureau of Energy Efficiency (Qualifications for Accredited Energy Auditors and Maintenance of their List) Regulations, 2010.

Given under the seal of the Bureau of Energy Efficiency, Ministry of Power, this 26th day of May 2014.

Secretary, Bureau of Energy Efficiency

New Delhi

9



SWISO

In association with

THIS IS TO CERTIFY THAT

B. Senthil Kumar

has successfully completed a course approved by the Institute of Environmental Management & Assessment in

ADVANCED EMS AUDITOR (ISO 14001:2004)

(achieving an overall mark of 75%)

13th to 17th October 2008

iqms
Business & Innovation Centre
Sunderland • SR5 2TA • UK
Tel: +44 (0)870 8708188
Fax: +44 (0)870 8708199
email: enquiries@iqms.co.uk
Web: www.iqms.co.uk

Gooff His

Signed for igms

Swiso India Private Limited 507 Pragati Tower • 26 Rajendra Place New Delhi • 110 008 • (India) Tel: +91-11-41539720

Fax: +91-11-41539721 email: info@swisoindia.com Web: www.swisoindia.com

Signed for Swiso India Private Limited

IQ - EMS42357

CERTIFICATE NUMBER
iqms Course No. IQM/EMS4/07308/UK approved by JEMA

NIN ENERGY INDIA PRIVATE LIMITED REPORT NO 1530







F.No.09/06/07/IMPL/ECBC/5977-6028

August 21, 2019

Shri Praveen Kumar Yadav Environmental Design Solution Pvt Ltd A-4/3, Basement, Vasant Vihar, New Delhi - 110057

Subject: Empanelment of ECBC Expert Professional

Dear Shri Praveen,

This has reference to your application for empanelment of ECBC Expert Professional for implementing the Energy Conservation Building Code (ECBC). We are pleased to inform that you have been shortlisted to act as the ECBC Expert professional for helping in building technical capacity, compliance with code and effective implementation of it. The validity of the empanelment is for two years or till the creation of a pool of Certified Energy Auditors (Buildings), whichever is earlier. A brief on roles and responsibilities of professionals will be as per the prevailing ECBC Rules, 2018, is enclosed herewith.

It may be further noted that "the professional working with ECBC Cell in States/UTs shall not work on the projects for the same State/UT during their tenure as a part of ECBC cells and after one year from the last date of their incumbent in the ECBC cell. Such professionals may provide technical assistance in other State/UT for other projects."

With best regards.

Yours sincerely,

(Saurabh Diddi) Director

Encl: As above



Certificate of Compliance

This is to certify that

NIN Energy India Private Limited

JUSA Complex, New No 47, Old No 21/2, Ponniamman Koil Street, Kottur, Chennai - 600085 (Tamil Nadu), India.

has been assessed by RSI and found to comply with the requirements of

ISO/IEC 17020:2012

Operation of various types of bodies performing inspection - Requirements

for the following activities:

Mandatory Energy Audit, Environment Audit, Green Audit, PAT Measurement and Verification (M&V), Power Quality Audit, Infrared Thermography, Electrical Safety Audit, Energy Management Training, Energy Management System, Measurement & Verification, Green Building Services, Renewable Energy Services, Carbon Foot Printing and Water Audit

Certificaat Nummer / Certificate No.: IE-BV-2207-5410

Datum Van Publicatie / Date of Issue: 27/07/2022 Vervaldatum / Date of Expiry Ist Annual surveillance audit due on: 26/06/2023

IInd Annual surveillance audit due on: 26/06/2024

Royal Stancert B.V. Certificaat Nummer / Certificate No. : Q-xx-xxxx-xxxxx

Regd. Office - Joop Geesinkweg 701, 1114 AB Amsterdam. The Netherlands. (KvK-Nummer 71431802 / RSIN 858713159 - Rechtsvorm - Besloten Vennootschap).

This certificate remains the property of Royal Stancert B.V. and must be returned whenever demanded. The validity of this certificate can be verified at http://www.royalstancert.org. Royal Stancert B.V. is an independent system, product and personal assessment body accredited by Global Euro Accreditation Centre, Georgia. (GCIN - 654). Email: info@royalstancert.org

Director (Certification)



PAC-GEAC-1506-299



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7.1.3 Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following

7.1.3 -3 Clean and green campus initiatives





Green Campus Policy

PERI Institute of Technology is committed to protect its environment with its green campus initiatives. A Green Campus is a place where environmental friendly practices and education combine to promote sustainable and eco-friendly practices in the campus. Environment consciousness is enshrined in the mission of the institute and tree plantation is the major concern of the management to maintain the pristine purity and beauty of the college to provide a congenial atmosphere for the academic and non-academic pursuits. The entire campus has landscaping with green grass, ornamental plants and shady trees making the campus very green and beautiful. College is very proud of this green and pollution-free atmosphere which is conducive for good educational ambience. Conservation of natural resources and maintaining the eco system of the campus is the primary goal of Green Policy of PERI Institute of Technology

Objectives of Green Policy

- To impart understanding about the importance of environment in students and all stake holders and their accountability to take environment friendly initiatives to save environment.
- To facilitate students, take small steps in protecting and conserving the environment and sustain natural resources within the campus
- To bring awareness amongst students and staff regarding usage of water and there is no unnecessary wastage of water.
- To protect and maintain natural resources within the campus.
- To integrate environmental concerns into community development policies, programs and outreach activities.
- To regulate and minimize running of vehicle in the campus.
- To ensure judicious use of environmental resources to meet the need and aspirations of the present and future generations.
- To make the campus, plastic free.
- To slowly adopt rain water harvesting in campus



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- Sustainably improve the efficient use of all resources, including energy and water, as well as reduce the use and amount of wasting the resources and recycle the wasted resources if possible.
- To protect flora and fauna on the campus.
- To audit and continuously improve the efficient use of all resources, including energy, water and to reduce consumption and the amount of waste produced, recovering and recycling waste where possible.
- To promote usage of digital technology and minimize the usage of paper.

The Institute will make all the necessary efforts to involve the students, faculty and staff in "Green Campus Initiatives" by designating the volunteers of NSS & YRC.

10000000

Dr. R. PALSON KENNEDY, M.E., Ph.D., PRINCIPAL PERI INSTITUTE OF TECHNOLOGY Mannivakkam, Chennai - 600 048.





CERTIFICATE OF GREEN AUDIT

This is to certify that

PERI INSTITUTE OF TECHNOLOGY

PERI KNOWLEDGE PARK, MANNIVAKKAM, WEST TAMBARAM, CHÉNNAI – 600 048

has successfully undergone an ENERGY, ENVIRONMENT AND GREEN AUDIT for the year **2019** on and assessed the Electrical Energy conservation, Energy saving, measures and sustainability in compliance with the applicable regulations, policies and standards in the campus were found to be 'Satisfactory'

R. Sermil Krmaj.

Channai-85)-1

V. Dirya.

B. SENTHIL KUMAR, DIRECTOR,

NIN ENERGY INDIA PRIVATE LIMITED

ACCREDITED ENERGY AUDITOR BY BUREAU OF ENERGY EFFICIENCY

V. DIVYA, DIRECTOR

NIN ENERGY INDIA PRIVATE LIMITED

Date: 17/01/2019



CERTIFICATE OF GREEN AUDIT

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PERI KNOWLEDGE PARK, MANNIVAKKAM, WEST TAMBARAM, CHÉNNAI – 600 048

has successfully undergone an ENERGY, ENVIRONMENT AND GREEN AUDIT for the year **2020** on and assessed the Electrical Energy conservation, Energy saving, measures and sustainability in compliance with the applicable regulations, policies and standards in the campus were found to be 'Satisfactory'

R. Sermil Krmaj.

Channai-85

V. Dirya.

B. SENTHIL KUMAR, DIRECTOR,

NIN ENERGY INDIA PRIVATE LIMITED

ACCREDITED ENERGY AUDITOR BY BUREAU OF ENERGY EFFICIENCY

V. DIVYA, DIRECTOR

NIN ENERGY INDIA PRIVATE LIMITED

Date: 23/01/2020



CERTIFICATE OF GREEN AUDIT

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Channal-85

V. Dirya

B. SENTHIL KUMAR, DIRECTOR,

NIN ENERGY INDIA PRIVATE LIMITED

ACCREDITED ENERGY AUDITOR BY BUREAU OF ENERGY EFFICIENCY

V. DIVYA, DIRECTOR

NIN ENERGY INDIA PRIVATE LIMITED

Date: 04/01/2022



CERTIFICATE OF GREEN AUDIT

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PERI KNOWLEDGE PARK, MANNIVAKKAM, WEST TAMBARAM, CHÉNNAI – 600 048

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R. Sermilkmay.

Channai-85

V. Divya.

B. SENTHIL KUMAR, DIRECTOR,

NIN ENERGY INDIA PRIVATE LIMITED

ACCREDITED ENERGY AUDITOR BY BUREAU OF ENERGY EFFICIENCY

V. DIVYA, DIRECTOR

NIN ENERGY INDIA PRIVATE LIMITED

Date: 22/01/2023



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Criterion 7 Institutional Values and Best Practices

Key Indicator 7.1 Institutional Values and Social Responsibilities

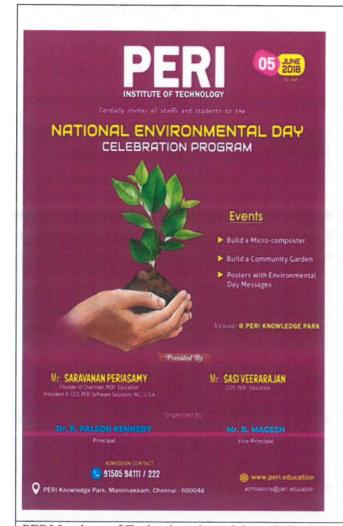
7.1.3 Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following

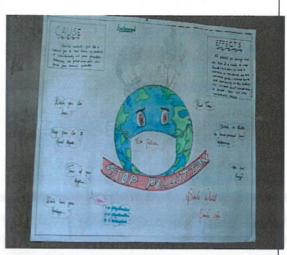
7.1.3 - 4 Beyond the campus environmental promotion and sustainability activities





Environmental Day Program on 05.06.2018







PERI Institute of Technology hascelebrated Environmental Day with staff and students on 05.06.2018

1000/02/00/

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Temple Clean up on 29/01/2019









Temple cleaning campaign was organized by the YRC unit, PERI Institute of Technology on 29/01/2019, Arulmigu Parvathavarthini Ambal with Ramalingeswarar temple.

Muscology

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Tree Plantation Day on 26/02/2019





As a part of the YRC activity, the students of PERI Institute of Technology engaged in planting of saplings on 26th February, 2019 on campus with 58 participants.

Pochosens

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Environmental Day Program on 05/06/2019



PERI Institute of Technology has celebrated Environmental Day with staff and students on 05/06/2019

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NSS conducted a Camp at Salavakkam Village on 23/12/2019





NSS of PERI Institute of Technology has conducted a camp at Salavakkam village on 23/12/2019 .The major problem faced by villagers were improper open water bodies, improper garbage disposal in households, lack of plastic disposal awareness, and unrepaired roads. The students have done cleaning and repairing of halt place.

Dr. R. PALSON KENNEDY, M.E., Ph.D.,



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NSS Camp Addressed Environmental Concerns and Promotes Green Initiatives at Govt. Higher Secondary School, Padappai on 08/01/2021







The NSS Club of PERI Institute of Technology organized a one-day camp in the Govt. Higher Secondary School, Padappai near Vandalur on 08/01/2021. The major issues identified by the team were improper garbage disposal, lack of awareness regarding plastic disposal, and unrepaired grounds. The NSS team distributed a wide variety of plant and tree saplings to the school students, who then planted the saplings in the school and began working to maintain their growth.

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Environmental Day awareness program on 19/03/2021









PERI Institute of Technology has celebrated World Environmental Day awareness program with staff and students at PERI IT campus on 19/03/2021.

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No Plastic Awareness Program 21/02/2022





The YRC Club of PERI Institute of Technology organized "NO PLASTIC" awareness program on 21/02/2022 at 12.30 A.M to 4.00 P.M at Padappai village.YRC Volunteers and Students of PERIIT actively participated in the event.

Dr. R. PALSON KENNEDY, M.E., Ph.D.,
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PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 848.





Swachh Bharat Mission on 25/04/2022







PERI IT Youth Red Cross and NSS Club has conducted Swachh Bharat Mission on 25/04/2022

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Mannivakkam, Chennai - 600 048.



PERI Knowledge Park, Mannivakkam, Chennai - 600 048. Tamilnadu.

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NSS Camp Addressed Environmental Concerns and Promotes Green Initiatives at Govt.

Higher Secondary School, Aadhanur on 04/07/2022









The NSS Club of PERI Institute of Technology organized a one-day camp in the Govt. Higher Secondary School, Aadhanur near Vandalur on 04/07/2022. The major issues identified by the team were improper garbage disposal, lack of awareness regarding plastic disposal, and unrepaired grounds. Volunteers cleaned and repaired the school grounds and planted the Saplings.

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NSS Camp Addressed Environmental Concerns and Promotes Green Initiatives at Government High School at Mannivakkam near Vandaluron 11/08/2022









The NSS Club of PERI Institute of Technology organized a one-day camp in the Government High School at Mannivakkam nearVandalur on 11/08/2022. The major issues identified by the team were improper garbage disposal, lack of awareness regarding plastic disposal, and unrepaired grounds. Volunteers done the work of cleaning and repairing of School Ground.



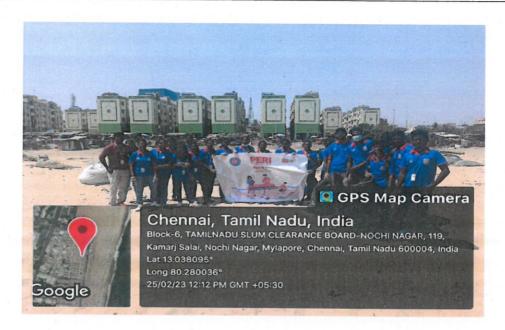
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Marina Beach Cleaning Campaign on 25/02/2023





PERI Institute of Technology, NSS Unit has organized Marina Beach Cleaning Campaignwith student volunteers at Marina Beach on 25/02/2023.

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Dr. R. PALSON KENNEDY, M.E., Ph.D.,
PRINCIPAL

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Lake Cleaning Campaign on 01/04/2023







PERI Institute of Technology, NSS Unit has organized Lake Cleaning Campaign with student volunteers at Padappai Lake on 01/04/2023.

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World Environmental Day Celebration on 06/06/2023









PERI Institute of Technology had celebrated World Environmental Day with students at PERI IT campus on 06/06/2023

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