NIZAM COLLEGE (AUTONOMOUS)

HYDERABAD-500001

ENERGY MANAGEMENT AUDIT REPORT

Prepared by

Energy Management Assessment Team
for the year
2022-23

Certificate

HYM International Certifications Pvt. Ltd.

Certified that the Energy Management System of

NIZAM COLLEGE (AUTONOMOUS)

A CONSITUENT COLLEGE OF OSMANIA UNIVERSITY

Basheerbagh, Hyderabad - 500 001, Telangana State, India

has been assessed and found to be in accordance with the requirements of the Energy standards

ISO 50001 : 2018

for the following scope of certification

IMPLEMENTATION OF ENERGY SAVING PRACTICES

Further information about the scope of this certificate and applicability of ISO 50001 : 2018 requirements may be obtained by consulting the organization.

Issue Date : 10/06/2021

Renewal Date : 09/06/2024

1st Surveillance 09/06/2022

2nd Surveillance 09/06/2023

Authorised Signature

Certificate No : En91864140117

HYM International Certifications Pvt. Ltd

NOTE: This Certificate is Valid From 09/06/2022 to 09/06/2023

This is an accredited certificate authorized for issue by Accreditation Service for Certifying Bodies [Europe] Limited who have assessed M/s.HYM International Certifications Pvt. Ltd. against defined criteria and in cognisance of ISO 17021:2015 "Conformity Assessment - Requirements for bodies providing audit and Certification of management Systems".

www.hymcertifications.com on for checking the validation of the Certification

Regd. Office : Plot No. 265/C, Addagutta Society, Opp. JNTU, Kukatpally, Hyderabad - 500 072, Telangana State, India.
E-mail: siva@hymcertifications.com, Website: www.hymcertifications.com

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A Constituent College of Osmania University

PRINCIPAL'S MESSAGE

Nizam College energy audit report presents the findings, recommendations, and potential energy-savingopportunities identified through a comprehensive assessment of the facilities and practices at NizamCollege. The audit aimed to analyze energy usage patterns, identify areas of inefficiency, and proposeactionable strategies to enhance energy conservation and reduce operational costs. The audit outlinesthe importance of energy conservation and the potential benefits for the college including cost savings,environmental sustainability, and regulatory compliance.

Analysis of energy consumption data for electricity, natural gas, water, and other relevant resources wasdone by examining utility bills and metering data, the audit determines baseline energy usage profilesand benchmarks performance against industry standards. The audit explores the feasibility ofintegrating renewable energy sources, such as solar photovoltaic (PV) systems, increasing solar panels,increasing green cover and using sensor-based technology would ensure a better environment.This energy audit report serves as a valuable roadmap for Nizam College to enhance operationalefficiency, reduce energy costs, and demonstrate environmental leadership in today competitivemarketplace.

By implementing the recommended strategies and embracing a culture of sustainability,
Nizam College can achieve its energy conservation goals while creating lasting value for stakeholdersand the community and SAVE THE PLANET.

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ABOUT THE COLLEGE

Established in 1887 by the amalgamation of Hyderabad School and the Madarsa-i-Aliya, Nizam College is one of the oldest and most esteemed institutions of higher education in South India. It was affiliated to the University of Madras for 60 years after its inception, and was made a Constituent College of Osmania University on 19th February 1947.

Nizam College offers both undergraduate and postgraduate courses in the Faculties of Arts, Social Sciences, Commerce and Sciences in addition to professional courses such as MBA, MCA, M.Sc.(IS) and BCA. Several of our students are also pursuing doctoral and postdoctoral research. The college received the status of the College with Potential for Excellence both under the X Plan and the XI Plan period. The College is accredited by NAAC in March 2019 with 'B++' grade with a CGPA of 2.92.

The Placement Centre organizes on-campus recruitments involving industries and MNC's like Wipro, Infosys, Cognizant, Satyam, Nipuna, GE, etc. totaling to more than 25 to 50 reputed companies visit the college every year. Students come from a wide range of social status and different regions which creates a healthy atmosphere and an ambience of a global community with rich cultural exchange. Nizam College is foremost in the preference of students from various Asian and African countries. Foreign students constitute 25% of the total strength of the college.

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VISION AND MISSION

Vision

To continue as a centre of excellence in education and research, and consolidate our position as areputed Institution of Higher Education.

Mission

• To build across the college a culture of excellence in teaching and learning, attract both global and national students and mould them into responsible future citizens through various support activities.

Core Values

- Provide the students with a teaching learning experience that develops in them the capacities for creativity, critical judgment, effective communication, and in-depth knowledge
- Enhance interaction with industry/ business /academic in teaching programmes through guestlectures, seminars, adjunct faculty programs, and industrial/business/academic internships forstudents
- Ensure effective evaluation of teaching/ learning curricula, co-curricular opportunities of students and teachers
- Provide incentives to teachers/learners for research and consultancy
- To develop an environment-friendly campus.
- Create innovators, leaders and entrepreneurs
- Achieve excellence in application-oriented research in different areas so as to contribute todevelopment of the region and the nation
- Promote co-curricular activities for over-all personality development of the students
- Develop responsible citizenship through awareness and acceptance of value-based education
- Provide efficient administration and responsive support for all activities of the college
- Provide remedial courses to preferentially admitted students and special attention to the Divyangjan students.
- Ensure Gender Equity
- Build alumni family, friends to create a network of allegiance and support for college

OBJECTIVES OF ENERGY MANAGEMENT

- To achieve and maintain optimum energy procurement and utilization, throughout the organization
- To minimize energy costs/waste without affecting production & quality
- To minimize environmental effects.
- Raising awareness of the importance of energy conservation
- Generate energy at the lowest possible rate
- Select low-investment technology to meet present requirements and environment conditions

CHECK LIST

The purpose of this checklist is to assist in systematically reviewing energy use in thecollege to identify focus areas that could benefit most from "energy efficiency" programmes. It provides a clearpicture of which modifications and adjustments the college could make in order to achieve optimal and energy efficient operation.

- √ Energy Committee
- √ Energy Policy
- √ Energy objectives
- √ LED lights
- √ Solar panel details and capacity
- √ Total no. of power consumables
- √ Power consumed in watts
- √ Energy conservation methods
- √ Energy saving slogans

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ORDERS

The following faculty are appointed as members for the Energy Audit Committee for the year 2022-23

S. No	Name	Designation	Signature
1	Prof. B. Bhima	Principal	
2	Dr. G. Upender Reddy	Vice - Principal	
3	Dr. M. Radhika	Academic Coordinator	
4	Dr. Kaleem Ahmed Jaleeli	Dept of Physics	
5	Dr. Shashidhar Bale	Dept of Physics	
6	Dr. B. Kavitha, Faculty	Dept of Physics	
7	Dr. B. Madhavi, Faculty	Dept of Business Management	
8	Dr. S. Renuka	Dept of Mathematics	
9	Dr. B. Manju	Dept of Environmental Science	
10	Ms. S. Geetha	Deputy Registrar	
11	Dr. B. Kumar	Librarian	

Energy Audit Committee

The following faculties are appointed as members for the Energy Audit Committee for the Academic year 2022-23

S. No	Name	Designation	Signature
1	Prof. B. Bhima	Chairman & Principal, Nizam College	
2	Dr. G. Upender Reddy	Vice - Principal	
3	Dr. M. Radhika	Academic Coordinator	
4	Dr. Kaleem Ahmed Jaleeli	Member, Dept. of Physics	
5	Dr. Shashidhar Bale	Member, Dept. of Physics	
6	Dr. B. Kavitha	Member, Dept. of Physics	
7	Dr. B. Madhavi	Dept of Business Management	
8	Dr. S. Renuka	Dept of Mathematics	
9	Dr. B. Manju	Dept of Environmental Science	
10	Ms. S. Geetha	Deputy Registrar	
11	Dr. B. Kumar	Librarian	

INTRODUCTION

Energy management: The planning and operation of systems that produce, distribute, store, and consume energy.Human civilization relies on several sources of energy: the sun, plants, and animals in various forms, the splitting of atoms, gravity, the heat of the Earth, and rocks. These sources yield numerous forms of energy, including firewood (plants) and dung (animals) nuclear power (split atoms), tidal (gravity), coal (a rock), and many more.

Sources of energy can be **abiotic** (not derived from living things) or **biotic** (derived from living things).Energy can be **renewable** (you can use it over and over) or **non-renewable** (once you use it, usually by burning it, then it is gone and you have to find more).

Different forms of energy are harnessed, stored, converted, transmitted, and utilized inside machines or in networks across vast distances.The entire system of energy that we rely on has to be managed for it to work properly.

The fundamental goal of energy management is to produce goods and provide services with the least cost and least environmental effect.The term energy management means many things to many people. One definition of energy management is:"The judicious and effective use of energy to maximize profits (minimize costs) and enhance competitive positions"(Cape Hart, Turner, and Kennedy, Guide to Energy Management Fairmont Press Inc. 1997).

Another comprehensive definition is"The strategy of adjusting and optimizing energy, using systems and procedures to reduce energy requirements per unit of output while holding constant or reducing total costs of producing the output from these systems"

Energy audits will help to understand the ways energy and fuel are used in any industry and help in identifying the areas where waste can occur and where scope for improvement exists. It would give a positive orientation to energy cost reduction, preventive maintenance, and quality control programs which are vital for production and utility activities.

AUDITING FOR ENERGY MANAGEMENT

1. **List ways that you use energy in your college. (Electricity, electric stove, kettle, microwave, LPG, firewood, Petrol, diesel, and others).**

A. Electricity, printers, water heater, electric stove, incubator, refrigerator etc.

2. Electricity bill amount for the last year

A.₹19,09,847

3. AmountpaidforLPGcylindersforlastyear

A.₹112434

4. **Weight of fire wood used per month and amount of money spent? Also, mention the t spent on petrol/diesel/others for generators.**

A. We use diesel to run generators which monthly cost around ₹28000.

5. Are there any energy-saving methods employed in your college? If yes, pleases specify. If not, suggest some.

A. Yes, we follow energy-saving methods such as:

- Adjusting day-to-day behaviors
- Using energy efficient appliances
- Using solar energy to reduce expenses
- Using updated ventilation and air conditioning systems

6. How much money does your college spend on energy such as electricity, gas, firewood, etc. in a month?

A.₹22400

7. How many CFL bulbs has your college installed? Mention use(Hours used/day for how many days in a month?

A. We installed 1260 CFL bulbs,they are used 150 hours per month

8. What Energy is used by each bulb per month? (for example- 60watt bulb x 4hours x number of bulbs=kwh).

A. 2457000Kwh

9. How many LED bulbs are used in your college? Mention the use (Hours used/day for how many days in a month)

A.300 LED bulbs are used for 200 hours in a month

10. What Energy used by each bulb per month?(Kwh).

A. 2250Kwh

11. How many incandescent (tungsten) bulbs have your college installed? Mentionsuse (Hours used /day for how many days in a month)

A. Replaced incandescent bulbs with LEDs

12. Energy used by each bulb per month?(Kwh).

A. 2250Kwh

13. How many fans are installed in your college? Mention use (Hours used/day for how many days in a month)

A. 850 fans are installed in our college which runs for a duration of 150 hours in a month.

14. What Energyis usedbyeachfanpermonth?(kwh)

A. 9360Kwh

15. Howmanyairconditionersareinstalledinyourcollege? Mention use (Hours used/day, for how many days in a month)

A. 66 Air Conditioners are used in our college and they are used for 104 hours in a month

16. Energy used by each air conditioner per month?(Kwh).

A. 1456Kwh energy is used per month

17. How many electrical equipment including weighing balance are installed in your college? Mention the use (Hours used/day for how many days in a month)

A. There are 60 Electrical equipments in our college which are used for 100 hours per month

18. Energy used by each electrical equipment per month?(kwh).

A.28.66Kw/hr

19. How many computers are there in your college? Mention the use (Hours used/day for how many days in a month)

A. There are around 300 computers in our college ,which are used for 208 hours in a month

20. Energy used by each computer per month? (kwh)

A.7000Kwh energy is used by each computer in a month.

21. How many photo copiers are installed by your college? Mention use (Hours used / day for how many days in a month).

A. There are around 5 photocopier machines in our college which are used for 13 hours a month

22. How many cooling apparatuses are installed in your college? Mention the use (Hours used/day for how many days in a month)

A. There are 10 cooling apparatuses in our college which are used for 30 days in a month

23. Energy used by each cooling apparatus per month? (kwh) Mention use (Hours used/day for how many days in a month.

A. 180000Kwh energy is used per month

24. Energy used by each photocopier per month? (kwh) Mention the use (Hours used /day for how many days in a month) how many inverters has yourcollege installed? Mentions use (Hours used/day for how many days in amonth)

A.3950Kwh energy is used by each photocopier in a month

25. Energy used by each inverter per month?(kwh)

A. 2625Kwh energy is used by each inverter per month

26. How much electrical equipment is used in different labs of your college? Mention the use(Hours used/day for how many days in a month)

A.160 pieces of equipment are used in different labs of our college which are used for 125 hours in a month

27. Energy used by each piece of equipment per month?(kwh)

A. 28.66Kwh energy is used by each piece of equipment in a month

28. How many heaters are used in the canteen of your college? Mention the use(Hours used/ day for how many days in a month)

A. A single heater used in the canteen of our college which runs approximately for 270 hours in a month

29. Energy used by each heater per month?(kwh)

A. 5400Kwh energy is used by the heater

30. No. of street lights in your college

A. There are around 24 street lights in our college

31. What Energy is used by each street light per month? (kwh)

A. 24998Kwh energy is used by them in a month

32. No. of TV in your college and hostels?

A. There is a TV in the hostel.

33. What Energy is used by each TV per month?(kwh)

A. 6200Kwh energy is used by TV in a month

34. Any other item that uses energy (Please write the energy used per month) Mention the use (Hours used /day for how many days in a month)

A. NO

35. Are any alternative energy sources/nonconventional energy sources employed / installed in your college? (Photo voltaic cells for solar energy, wind mill, energy-efficient stoves, etc.,) Specify.

A. YES

36. Do you run "switch off" drills at college?

A. Yes, we conduct switch-off drills at college on 14th December every year.

37. Are your computers and other equipment put in power-saving mode?

A. YES

38. Does your machinery (TV, AC, Computer, weighing balance, printers, etc.) run on standby mode most of the time? If yes, how many hours?

A. YES 720Hrs

39. What are the energy conservation methods adopted by your college?

1. We adjust our day-to-day behaviors
2. We use energy-efficient appliances
3. We use solar water heaters to reduce heating expenses
4. We use updated ventilation and air conditioning systems
5. Energy conservation awareness programs are conducted

40. How many boards are displayed for saving energy awareness?

A. 30 boards are displayed in various departments of our college to bring awareness on the conservation of energy

41. How much ash is collected afterburning fire wood per day in the canteen?

A. Firewood is not used in our canteen.

ENERGY SAVING PRACTICES

1. Unplug electronics when not in use
2. Switch to LED and CFL bulbs to save energy
3. Hang clothes to dry instead of using dryers
4. Use solar Inverters rather than normal ones
5. More sensor-based lights to be used

ENERGY SAVING SLOGANS

- **Save Energy today for a brighter tomorrow**
- **Save Energy and Save the Nation**
- **Energy Saved is energy generated**

Energy Management

S.No		Tubes/ bulbs	ACs	LCD projectors	LED bulbs	printers	Computers	Solar Power	Energy management
1	Arabic	√	√	√	√	√	√	X	√
2	Biotechnology	√	√	√	√	√	√	X	√
3	Botany	√	√	√	√	√	√	X	√
4	Chemistry	√	√	√	√	√	√	X	√
5	Commerce	√	√	√	√	√	√	X	√
6	Computer Science	√	√	√	√	√	√	X	√
7	Economics	√	√	√	X	√	√	X	√
8	English	√	√	√	√	√	√	X	√
9	French	√	√	√	X	√	√	X	√
10	Genetics	√	√	√	√	√	√	X	√
11	Geography	√	√	√	√	√	√	X	√
12	Hindi	√	√	√	√	√	√	X	√
13	History	√	√	√	√	√	√	X	√
14	Marketing	√	√	√	X	√	√	X	√
15	Mathematics	√	√	√	√	√	√	X	√
16	MBA	√	√	√	X	√	√	X	√
17	MCA	√	√	√	√	√	√	X	√
18	Microbiology	√	√	√	√	√	√	X	√
19	Persian	√	√	√	X	√	√	X	√
20	Philosophy	√	√	√	√	√	√	X	√
21	Physical education	√	√	√	√	√	√	X	√
22	Physics	√	√	√	√	√	√	X	√
23	Political science	√	√	√	√	√	√	X	√
24	Psychology	√	√	√	√	√	√	X	√
25	Public administration	√	√	√	√	√	√	X	√
26	Sanskrit	√	√	√	√	√	√	X	√
27	Sociology	√	√	√	√	√	√	X	√
28	Statistics	√	√	√	√	√	√	X	√
29	Telugu	√	√	√	√	√	√	X	√
30	Urdu	√	√	√	√	√	√	X	√
31	Zoology	√	√	√	√	√	√	X	√
32	Hostels	√	X	√	√	√	√	proposed	√

Annexure

(1)

(2)

TSSPDCL
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SNo:0907ERONo:5 GRP:N
ERO :MINT COMPOUND
SEC :GUNFOUNDRY
AREA CODE: 27-ERO

S NO:02000312
USC :101232426
NAME:PRINCIPAL
ADDR:NIZAM COLLEGE
GUNFOUNDRY
HYDERABAD
CAT:2 B PH:3 LT
CONTRACTED LOAD:120.00KW
MNo:648762
MF: 1.000

IR READING MONTH STS
Ps 783874 08/11/23 01
KVAH 909281 01
Pv 776244 11/10/23 01
KVAH 901188 01
UNITS: 8336 DAYS: 28
RMD: 75.98 KVA PF:0.94
KVAH:8093 KWH:7630
Minimum Units: 2400
V1:234V V2:234V V3:235V
I1: 40A I2: 45A I3: 32A
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ENERGYCHARGES: 77524.80
Rs. 8.90 for 4168
Rs. 9.00 for 4168
FIXED CHARGES: 45600.00
Rs.475.00 for 96.00
CUST CHARGES : 200.00
ED : 500.16
ED INT : 0.00
ADDL CHARGES : 177.57
ACD Surchrge : 0.00
ADJUSTMENT : 0.00
BILL AMOUNT : 125802.52
LOSS/GAIN : 0.48
NET AMOUNT : 125803.00
ARREARS ---
Bef 31/03/23: 0.00
After01/04/23: 2541.00
TOTAL AMOUNT : 128344.00
ACD DUE : 0.00
TOTAL DUE : 128344.00
MATS AMOUNT:1093537.00
DUE DATE : 22/11/2023
DISC DATE : 08/11/2023
LAST PAID : 21/10/2023
AAO CELL No.:
ADE CELL No.: 23431296

E&OE For AAO/ERO 5

(3)

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SEC :GUNFOUNDRY
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USC :101229649
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ADDR:NIZAM COLLEGE,
BASHEER BAGH,
CAT:7 A PH:3
CONTRACTED LOAD:10.00KW
MNo:3619960
MF: 1.000

IR READING MONTH STS
Ps 16342 08/11/23 09
KVAH 18283 01
Pv 16342 11/10/23 09
KVAH 18283 09
UNITS: 0 AVG: 0
RMD: 0.00 KVA PF:0.00
KVAH:0 KWH:0

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FIXED CHARGES: 210.00
CUST CHARGES : 100.00
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ADDL CHARGES : 0.00
ACD Surchrge : 0.00
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LOSS/GAIN : 0.00
NET AMOUNT : 460.00
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TOTAL DUE : 460.00
DUE DATE : 22/11/2023
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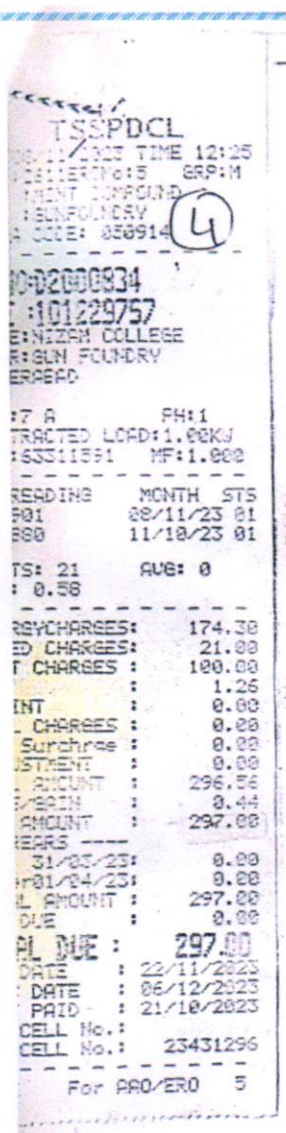
ADE CELL No.: 23431296

E&OE For AAO/ERO 5



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A CODE: 050914

(4)

0002000834

:101229757

E:NIZAM COLLEGE

R:GUN FOUNDRY

ERABAD

:7 A PH:1

TRACTED LOAD:1.00KW

:63311591 MF:1.000

READING MONTH STS

901 08/11/23 01

880 11/10/23 01

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RGYCHARGES: 174.30

ED CHARGES: 21.00

T CHARGES : 100.00

: 1.26

INT : 0.00

CHARGES : 0.00

Surchrge : 0.00

STMENT : 0.00

AMOUNT : 296.56

/GAIN : 0.44

AMOUNT : 297.00

EARS ----

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r01/04/23: 0.00

L AMOUNT : 297.00

DUE : 0.00

AL DUE : 297.00

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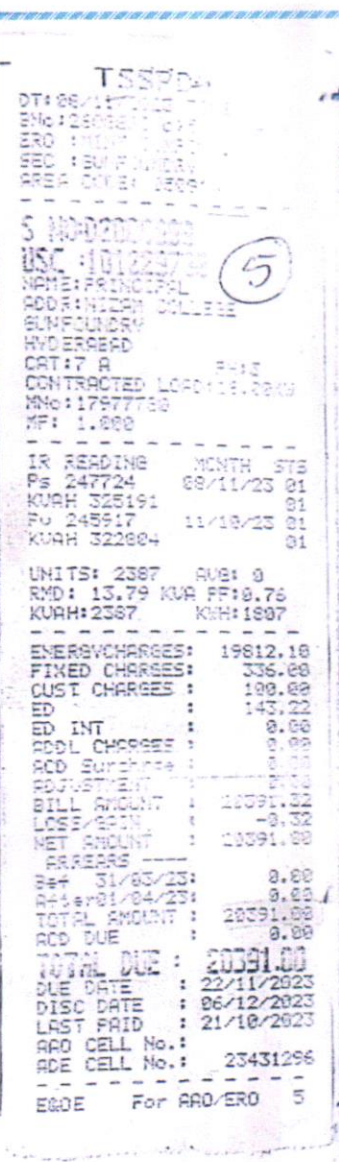
DATE : 06/12/2023

PAID : 21/10/2023

CELL No.:

CELL No.: 23431296

For AAO/ERO 5



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AREA :GUNFOUNDRY

AREA CODE: 050914 GRP:M

(5)

S NO:02000834

USC :101229757

NAME:PRINCIPAL

ADDR:NIZAM COLLEGE

GUNFOUNDRY

HYDERABAD

CAT:7 A PH:1

CONTRACTED LOAD:1.00KW

MNo:17977760

MF: 1.000

IR READING MONTH STS

Ps 247724 08/11/23 01

KVAH 325191 01

Pv 245917 11/10/23 01

KVAH 322804 01

UNITS: 2387 AVG: 0

RMD: 13.79 KVA PF:0.76

KVAH:2387 KWH:1807

ENERGYCHARGES: 19812.10

FIXED CHARGES: 336.00

CUST CHARGES : 100.00

ED : 143.22

ED INT : 0.00

ADDL CHARGES : 0.00

ACD Surcharge : 0.00

ADJUSTMENT : 0.00

BILL AMOUNT : 20391.32

LOSS/GAIN : -0.32

NET AMOUNT : 20391.00

ARREARS ----

Bef 31/03/23: 0.00

After01/04/23: 0.00

TOTAL AMOUNT : 20391.00

ACD DUE : 0.00

TOTAL DUE : 20391.00

DUE DATE : 22/11/2023

DISC DATE : 06/12/2023

LAST PAID : 21/10/2023

AAO CELL No.:

ADE CELL No.: 23431296

E&OE For AAO/ERO 5

TSSPDCL

ELECTRICITY BILL CUM NOTICE

TSSPDCL

ELECTRICITY BILL-CUM NOTICE

(6)

DT:08-11-2023 TIME:12:54

BILL NO:0005 ERONo:005

ERO:MINT COMPOUND

AREA :GUNFOUNDRY

AREA CODE:050914 GRP:M

SC NO:02004418

USC :101230110

NAME:PRINCIPAL

ADDR:NIZAM COLLEGE

GUNFOUNDRY

HYDERABAD

CAT:7A GENERAL PURPOSE

IR MODE: -IR-

CONTRACTED LOAD: 19.00

CONNECTED LOAD: 17.84

MTRNO:9177630

MF: 1.00 PH:3 LT

PREVIOUS PRESENT

KWH : 19446 22141

KVAH: 23667 25903

EXPORT: 736 852

KVAH: 0 0

DATE:06/Oct/23 08/Nov/23

STATUS: 01 01

IMPO: 3236 EXPO: 116

MF Uts : 0 0

UNITS: 3120 DAYS:33

RMD: 17.84 KVA PF:0.88

BILLED DEMAND: 19.00

KVAH: 3236 KWH: 2695

VOL R:233.40 CUR R:150.3

VOL Y:235.03 CUR Y: 58.2

VOL B:235.73 CUR B:113.4

ENERGY CHARGES: 25896.00

FIXED CHARGES: 588.00

CUST CHARGES : 100.00

ELECTRICI DUTY: 194.16

EDINT : 0.09

ADDL CHARGES : 150.00

ACD SURCHARGES: 0.00

Int on SD : 0.00

BILL AMOUNT : 26739.25

LOSS/GAIN : -0.25

NET AMOUNT : 26739.00

ARREARS ----

AS ON 31-03-23: 0.00

AFTER 01-04-23: 0.00

TOTAL AMOUNT : 26739.00

A.C.D DUE : 0.00

TOTAL DUE : 26739.00

LAST PAID DT:21/10/2023

AAO CELL No.:

ADE CELL No.: 23431296

E&OE FOR AAO/ERO 5

TSSPDCL

DT:08-11-2023 TIME:12:54

BILL NO:0005 ERONo:005

ERO :MINT COMPOUND

AREA :GUNFOUNDRY

AREA CODE:050914 GRP:M

(7)

S NO:02000834

USC :101229757

NAME:PRINCIPAL

ADDR:NIZAM COLLEGE

BASHEERBAGH

HYDERABAD

CAT:7 A PH:3

CONTRACTED LOAD:13.00KW

MNo:31[illegible]

MF: 1.000

IR READING MONTH STS

Ps 42760 08/11/23 01

KVAH 51233 01

Pv 42271 11/10/23 01

KVAH 50667 01

UNITS: 566 AVG: 0

RMD: 30.28 KVA PF:0.86

KVAH:566 KWH:489

ENERGYCHARGES: 4697.80

FIXED CHARGES: 635.88

CUST CHARGES : 120.00

ED : 33.96

ED INT : 0.00

ADDL CHARGES : 0.00

ACD Surcharge : 0.00

ADJUSTMENT : 0.00

BILL AMOUNT : 5467.64

LOSS/GAIN : 0.36

NET AMOUNT : 5468.00

ARREARS ----

Bef 31/03/23: 0.00

After01/04/23: 0.00

TOTAL AMOUNT : 5468.00

ACD DUE : 0.00

TOTAL DUE : 5468.00

DUE DATE : 22/11/2023

DISC DATE : 06/12/2023

LAST PAID : 21/10/2023

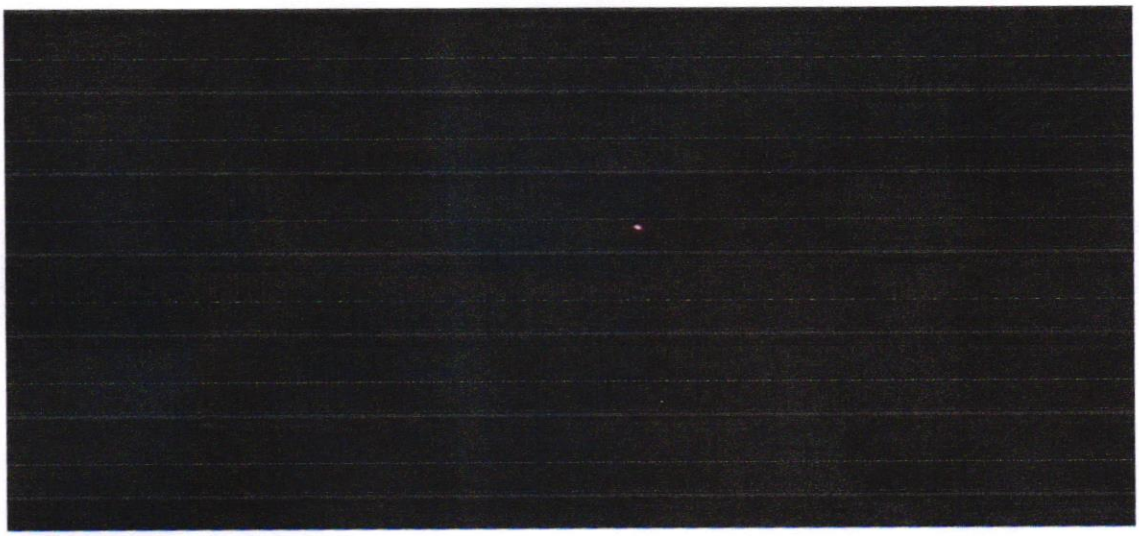
AAO CELL No.:

ADE CELL No.: 23431296

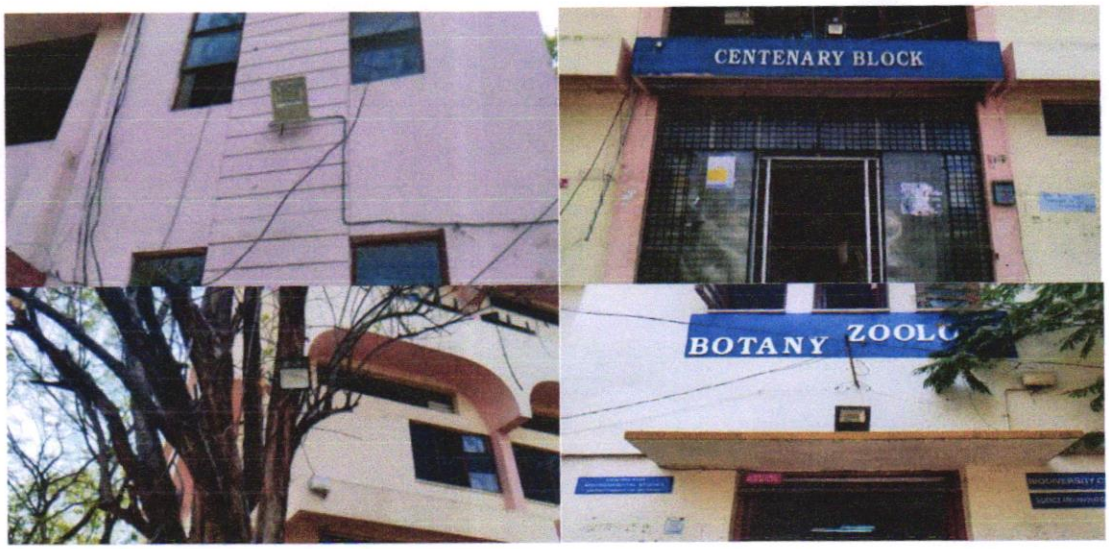
E&OE For AAO/ERO 5

RELATED PICTURES

SENSOR BASED LIGHTS



LED LIGHTS



SOLAR PANELS

SUGGESTIONS

- Install more LED and sensor-based devices
- Install smart controls with sensors and automation
- Heat and cool campus buildings properly
- Conserve water on campus
- Conducting workshops on energy management
- Invited lectures from resource persons on energy management
- Awareness programs by the NSS unit of the college
- Help your buildings run smarter together

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