SREE DATTHA INSTITUTE OF PHARMACY
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CRITERION- 7

7. INSTITUITONAL VALUES AND BEST PRACTICES

7.1.6 QUALITY AUDITS ON ENVIRONMENT AND ENERGY ARE REGULARLY UNDERTAKEN BY THE INSTITUTION

7.1.6.1 REPORTS ON ENVIRONMENT AND ENERGY AUDITS SUBMITTED BY THE AUDITING AGENCY

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1.GREEN AUDIT

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GREENAUDIT

The "National Assessment and Accreditation Council"(NAAC) guidelines under "Institutional Values and Social Responsibilities" stipulates campuses to adopt green practices, educate and display sensitivity towards issues like climate change and environmental issues

The accreditation body NAAC declares the institutions as Grade A, Grade B or Grade C according to the scores assigned at the time of accreditation for various initiatives and carry out Green Audit under Criteria -7 for emulating the best practices adopted by the institution with respect to Environmental practices in and out of the campus.

Definition

Green audit is the process by which institutions/ organizations adopt a methodology for identification, quantification & verification of best practices with respect to environmental initiatives such as energy efficiency, water conservation, waste management and carbon emissions. The outcome of such audit would enable institutions benchmark themselves and adopt best practices and contribute towards better environmental goals of the organization/institution.

Objectives of the Study

The main objective of green audit is to access the performance and activities related to environmental conservation and management in the campus. The purpose of this initiative is also to promote projects for environment protection and sustainability and use the findings of Green Audit as a guidance tool

- To bring in accountability for environment conservation
- To create concern among students for environment and sustainability.
- To minimize human exposure to risk from environmental ,health and safety problems.

Scope of the Audit

The audit examines the data and the activities with respect to broad parameters and metrics used to measure and monitor environmental performance such as

- Energyconservation
- RenewableEnergy
- Waterconservation
- WasteManagement andRecycling
- Carbonsequestration
- Trainingandskilldevelopment
- Recommendation&Suggestions
- Conclusions

ACKNOWLEDGEMENT

Ecsol India extends its warm thanks to Sree Dattha Institute of Pharmacy for the opportunity and support rendered during the course of the Green/Environmental Audit.

We appreciate the interest, enthusiasm, and commitment of the management towards pursuing energy conservation activities within the facility.

Ecsol India would also like to specially thank the Sree Dattha Institute of Pharmacy team comprising of Principal Dr.B. Chandrashekar , Professor Ch .S.Vijayavani for the relentless support and time dedicated towards this study.

We also extend our special thanks to all the personnel from various departments who have helped us during this audit.

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GREEN AUDIT

SREEDATTHA INSTITUTE OF PHARMACY

SHERIGUDA(V)IBRAHIMPATNAM(M) RANGAREDDY (D)

2023-24

Sponsored by: Vyjayanthi Educational Society

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Sree Dattha Institute of Pharmacy is one of the premier institutions providing both undergraduate and Post-graduate courses in the pharmacy education in Hyderabad. It was established by Vyjayanthi Educational Society in 2005. The college offers B.Pharm, M. Pharm, Pharm.D and Pharm D (PB) courses.

The college has a total student strength of around 800 students in various branches. The institution has a total of area of about 3, 596 sq.mts in which the constructed area occupies 1271 sq.mts.The institution has been forefront in sustainable practices and is in complaint to latest practices. It has laid major emphasis on energy efficiency improvement and green initiatives. Some of them are a dedicated energy use policy which stipulates

GREEN& ENERGYPOLICY

- Evaluate effectiveness of the Energy Management System through regular audits and management reviews
- Replacement of electrical equipment with energy efficient equipment of higher energy efficiency rating.
- Purchase energy-efficient products and services.
- Ensure involvement and participation of staff & students by providing training and awareness.
- Ensure availability of information and all necessary resources to achieve energy objectives and targets.
- Adopt best practices with respect to use of energy mix with minimal ecological footprint
- Use Renewable Energy as major source of energy
- Minimize wastages through efficient use of resources by adopting 3R (Reduce, Reuse & Recycle) practices.
- Use of energy efficient air conditioners and lighting system
- Good green landscape to building area ratio

Other Green initiatives

The campus has adopted measures to reduce Ecological Footprint.Someof th emeasures are

Green Transportation

- Carpooling by staff and students to reduce GHG footprint
- Smart routing of the college transport bus to maximize staff and student movement and reduced no of trips
- In addition to this the college carries out tree plantataion as part of Haritha haram by Telangan Govt.

ENERGYEFFICIENCY

Electrical energy requirements of the campus is met through grid electricity, captive generation through Diesel Generator is used for emergency purposes The institution is committed to continual improvement in energy efficiency in all areas of our operations.

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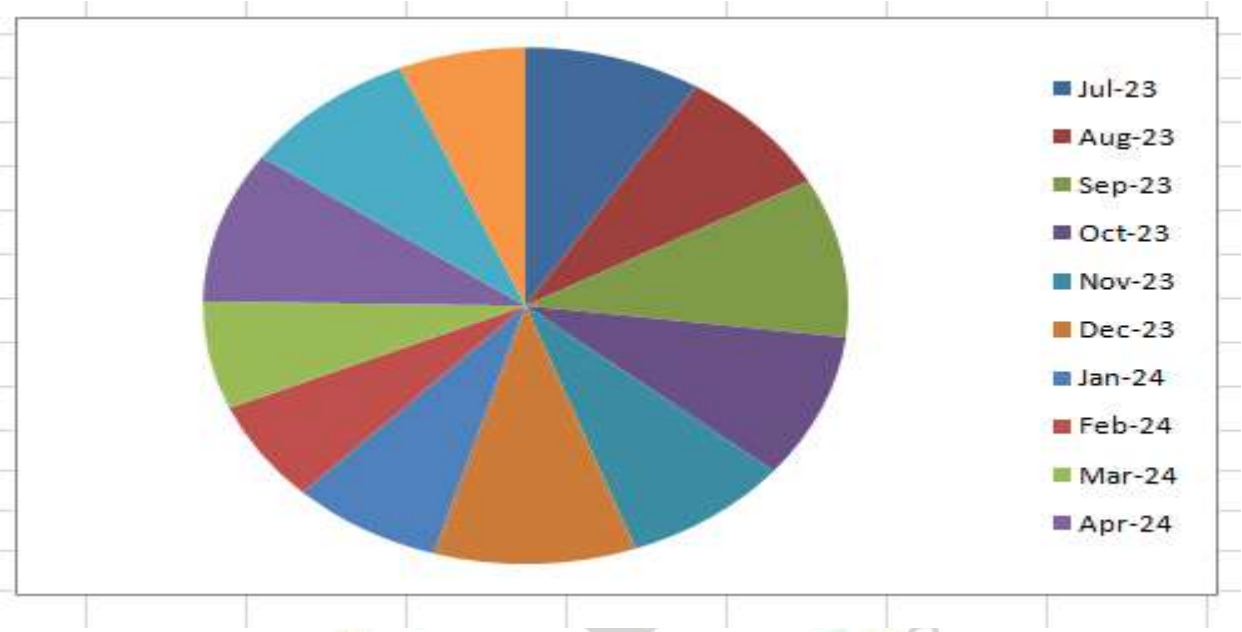

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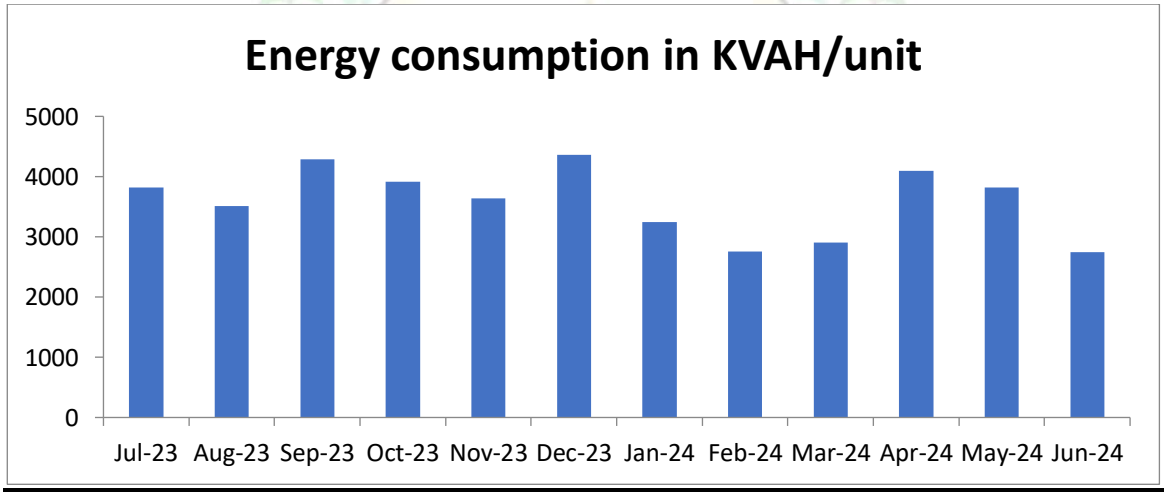

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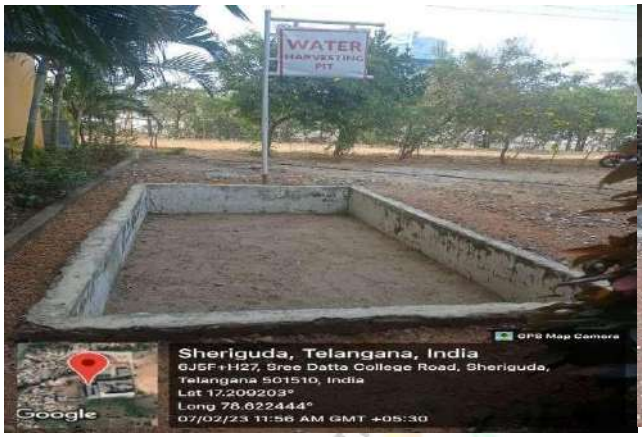

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FIRE SECURITY SERVICES:

The campus provides efficient fire protection services. Fire extinguishers are installed in all labs and floors and fire alarm monitoring systems have also been provided to combat the emergencies

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WASTE GENERATION AND RECYCLING

- The institution has taken several initiatives to minimize, segregate and dispose waste in an efficient manner.
- There are two types of waste which is generated in thecampus.
- **Wet waste–canteen**
- **Dry waste–dry leaves, paper, plastic etc**
- The waste generation in the campus is o n average.

Type of the waste	Quantit yin Kg/day	Use
Wet waste	**12kg/day**	1-5 Kg for Biogas used
Dry organic waste	23kg/day	Composting and environment friendly disposal
Inorganic waste	Inventorisation of other waste such as plastics and material waste are initiated and will be reported going forward	

The waste is carefully segregated and disposed of through the local municipal body.The different solid wastes collected such as paper, food, plastic, biodegradable, construction, glass, dust etc. was classified into r**ecyclable and non-recyclable further it was quantified** and some of them were recycled in-house and others have been sent to responsible recycling organizations. The waste inventory record has been for the last 5years and steps have been taken to reduce and recycle waste.

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Quantity of waste kg/annum				
Year	**Canteen waste in kgs/day**	**Canteen Waste/annum**	**Dry organic waste/day**	**Dry organic waste/annum**
2023-24	13	5000	25	9,000

E-WASTEGENERATION

E-waste generated in the campus is very less in quantity. The irreparable e-waste like non-working CDs, old batteries, unusable mouse, cables, extension wires and other computer accessories are disposed off through recognized agencies. Monitors and CPUs are repaired and reused in most of the cases.

BIOMEDICALWASTE

Pharmacology Experiments for UG students were conducted using simulated software's. The biomedical waste generated is of minimum quantity and is collected in separate closed bins. GJ Multiclave (India)Pvt .Ltd is providing biomedical waste management services to the institute on a regular basis

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ENVIRONMENTAL INITIATIVES AND THEIR IMPACT

The initiatives taken by SDIP team in the area of energy and environment is substantial and appreciable.

Name of the initiative	Action taken	Benefits
Water Management Implementation	• Systematic plan of rain water harvesting in place • Tracks the amount of water collected from the rooftops • Several small vertical and narrow harvesting pits for seepage of water under the ground at various places. • Plans to filter the rainwater and store in a tank for future purposes.	Utilization of rain water and recharging the ground
E-waste management	• E-waste from the computer Lab is collected and segregated • E-waste should be given to Authorized agencies for Further disposal/processing a s described by Pollution control Board	E-Waste is responsibly
Indoor Air Quality	• The classrooms have good window to wall ratio • Thus, the fresh air quality is maintained	Overall CO_2 content of the classrooms is less and it Offers better indoor air quality disposed
Carbon Sequestration	The campus has good number of trees with satisfactory green canopy	The college is in the process s of accounting the trees

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ENERGY AUDIT

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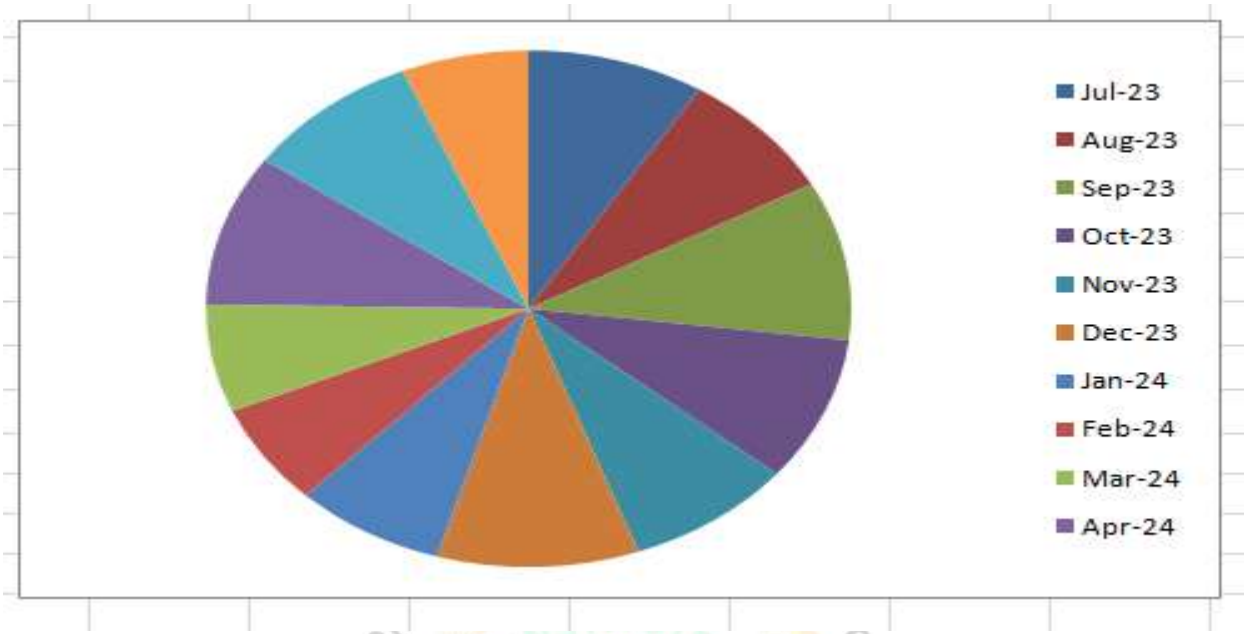

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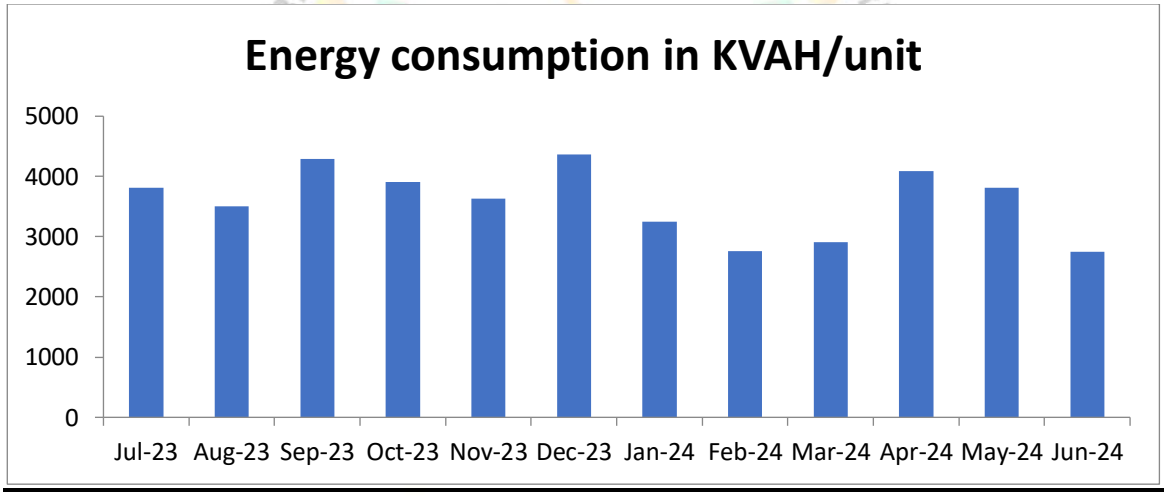

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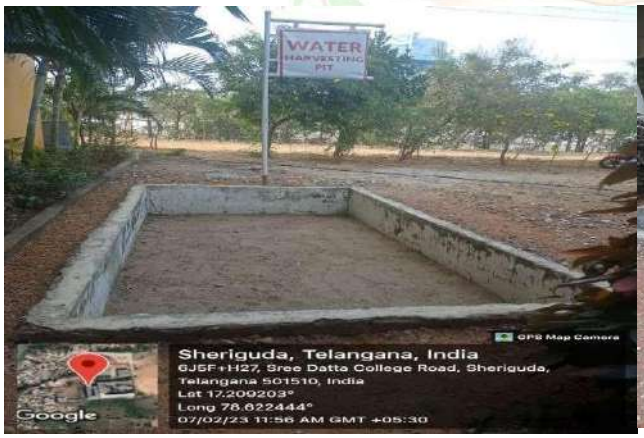
DRAINS FACILITATING WATER GRAVITY FLOW TO RAIN WATER HARVESTING PIT



SREE DATTHA INSTITUTE OF PHARMACY Sheriguda

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(Approved by AICTE & PCI, New Delhi, Affiliated to JNTUH, Hyderabad, T.S)
Nagarjuna Sagar Road, Sheriguda (V), Ibrahimpatnam (M), R.R.Dist., Greater Hyderabad-501510. T.S
Ph.:+91-8801099936/35, 9393808082,
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FIRE SECURITY SERVICES:

The campus provides efficient fire protection services. Fire extinguishers are installed in all labs and floors and fire alarm monitoring systems have also been provided to combat the emergencies

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WASTE GENERATION AND RECYCLING

- The institution has taken several initiatives to minimize, segregate and dispose waste in an efficient manner.
- There are two types of waste which is generated in thecampus.
- **Wet waste–canteen**
- **Dry waste–dry leaves, paper, plastic etc**
- The waste generation in the campus is o n average.

Type of the waste	Quantit yin Kg/day	Use
Wet waste	**12kg/day**	1-5 Kg for Biogas used
Dry organic waste	23kg/day	Composting and environment friendly disposal
Inorganic waste	Inventorisation of other waste such as plastics and material waste are initiated and will be reported going forward	

The waste is carefully segregated and disposed of through the local municipal body.The different solid wastes collected such as paper, food, plastic, biodegradable, construction, glass, dust etc. was classified into r**ecyclable and non-recyclable further it was quantified** and some of them were recycled in-house and others have been sent to responsible recycling organizations. The waste inventory record has been for the last 5years and steps have been taken to reduce and recycle waste.

Quantity of waste kg/annum				
Year	**Canteen waste in kgs/day**	**Canteen Waste/annum**	**Dry organic waste/day**	**Dry organic waste/annum**
2023-24	13	5000	25	9,000

E-WASTEGENERATION

E-waste generated in the campus is very less in quantity. The irreparable e-waste like non-working CDs, old batteries, unusable mouse, cables, extension wires and other computer accessories are disposed off through recognized agencies. Monitors and CPUs are repaired and reused in most of the cases.

BIOMEDICALWASTE

Pharmacology Experiments for UG students were conducted using simulated software's. The biomedical waste generated is of minimum quantity and is collected in separate closed bins. GJ Multiclave (India)Pvt .Ltd is providing biomedical waste management services to the institute on a regular basis

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ENVIRONMENTAL INITIATIVES AND THEIR IMPACT

The initiatives taken by SDIP team in the area of energy and environment is substantial and appreciable.

Name of the initiative	Action taken	Benefits
Water Management Implementation	• Systematic plan of rain water harvesting in place • Tracks the amount of water collected from the rooftops • Several small vertical and narrow harvesting pits for seepage of water under the ground at various places. • Plans to filter the rainwater and store in a tank for future purposes.	Utilization of rain water and recharging the ground
E-waste management	• E-waste from the computer Lab is collected and segregated • E-waste should be given to Authorized agencies for Further disposal/processing a s described by Pollution control Board	E-Waste is responsibly
Indoor Air Quality	• The classrooms have good window to wall ratio • Thus, the fresh air quality is maintained	Overall CO_2 content of the classrooms is less and it Offers better indoor air quality disposed
Carbon Sequestration	The campus has good number of trees with satisfactory green canopy	The college is in the process s of accounting the trees