



**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**

**Options:**

- A. All of the above**
- B. Any 3 of the above**
- C. Any 2 of the above**
- D. Any 1 of the above**
- E. None of the above**

Response: A

<b>File Description</b>	<b>Document</b>
<b>Green audit / Environment audit</b>	<a href="#">View Document</a>
<b>Energy audit</b>	<a href="#">View Document</a>
<b>Clean and green campus initiatives</b>	<a href="#">View Document</a>
<b>Beyond the campus environmental promotion and sustainability activities</b>	<a href="#">View Document</a>



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## 1. Green Audit

### **Policymaking:**

By properly disposing the waste and taking steps to recycle biodegradable waste. The campus is keeping clean by using environmentally friendly materials and successful recycle program

SRITW College deems it essential in implementing green campus concepts on campus. SRITW believes in education combined education with environment friendly practices to promote sustainable development. Awareness is being created amongst the staff and the students to reduce the use of plastic. Plastic glasses have been replaced with paper cups in the canteen.

The green ambience of the Institution is largely due to tree plantation which maintains the ecosystem. To ensure that the natural resources are utilized properly as per national policy environment.

### **The main objectives are follows:**

- To grow more number of plants to produce more amount of oxygen
- To conserve energy by using alternate energy resources such as solar energy and power efficient equipment.
- Commitment to prevent to pollution and to continuously environmentally performance to conserve the nature for future generation.

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Fig: Haritha Haram (Tree plantation)

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## 2. Energy audit

The main objective of the energy audit is to pro ability in compliance with the applicable regulations, policies and standards to promote the Energy Management and Conservation in the College Campus. The purpose of the audit is to identify, quantify, describe and prioritize framework of Environment Sustainability.

### Use of Light Emitting Diode (LED)



**Fig: Different types of LED lights**

### Energy saving by replacing CFL with LED

Dominant light source at most places in the campus is traditional 23W CFLs. As per our data collection, the campus has in total 865 CFLs. If these CFLs are replaced by LEDs 0-12W power can be saved per CFL.

#### Cost Analysis of Replacing CFLs with LEDs

Total No. of CFLs in Campus = 865

Average Power of CFL = 23W

Average Power of LED = 12W

Power saved per LED =  $(23-12) \text{ W} = 11\text{W}$

Total Power saving =  $865 * 11\text{W} = 9515\text{W} = 9.515\text{Kw}$

Average Use of CFL per year =  $240 * 7\text{h} = 1680\text{h}$

Total Energy saved per year =  $9.515 * 1680 \text{ kWh} = 15985.2 \text{ kWh}$

Saving in Rs. per Year =  $15985.2 * 8.8 = \text{Rs. } 140669.76$

Average Cost of Replacing each CFL = Rs. 160.71

Total Cost of Replacing all CFLs =  $865 * 160.71 = \text{Rs. } 139014.15$

Capital Cost Recovery time =  $(139014.15 / 140669.76) = 0.9882 \text{ yr}$  (Approx. 360 days)

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NORTHERN POWER DISTRIBUTION COMPANY OF TS LIMITED  
OPERATION CIRCLE - HANUPAKONDA

STIN: 36A8DCH09762121  
Bill For the month of: JUN-2023

Payable on or before: 30/07/23  
Disconnection Date: 30/08/23  
Contracted MD (KVA): 125  
Specified Voltage (KV): 11 (CORP-COODH)  
Actual Voltage (KV): 11(AV) STDHDS  
Category: 11(AV) STDHDS

SOND: MARKET  
VYS. SR HIGH SCHOOL  
ANANTHASAGAR (V)  
HANUPARTHY (M)  
HANUPARTHY-506371  
PINNO-504701(07-PINCODE)

	UNIT	SVAR	SVA	TDS	KUSOLAR	KWWD
Reading on 30-JUN-23	137296.00	148420.00	273.00	14460.00	1008.00	18
Reading on 30-JUN-23	70223.00	70742.00	12	15457.00	87.00	708
Consumption	31425.00	17688.00	11	2452.00	977.00	24
Lossing Factor	0.50	0.50	0.50	0.50	0.50	0.50
Net Consumption	15712.50	8844.00	5.50	1226.00	488.50	12
Monthly Minimum	3570.00	3688.00	125.00	Solar Carry Forward 08	Solar Carry Forward 08	
Power Factor	0.99	0.99	0.99	0.99	0.99	0.99

Demand Charges: Normal Rate Rs 475.00 per 125.00 KVA  
Additional Charge for maximum Demand exceeding Rate Rs 950.00 per 25.00 KVA

Energy Charges For Units consumed Rs. 2.80 per 30744.00 KWH

Electricity Duty Charges Rs 0.06 per 30744.00

Sub Total: 42547.00  
Electricity Duty, Interest, Late Payment Charges: 684.00  
Customer Charges: 1000.00  
Round Amount: 0.00  
Current Bill Amount: 44231.00  
Bill Amount INCL. Annex: 44231.00

LAST PAID AMOUNT Rs: 44231.00 Bill For JUN-2023

Supers Four Lakh Twenty Five Thousand Four Hundred Fifty Seven and Eighty Eight only

NOTE: Please Contact the Senior Accounts Officer of the Operation Circle at his office for any information on bills discrepancies.

Fig: Electricity bill for the month of June 2023

NORTHERN POWER DISTRIBUTION COMPANY OF TS LIMITED  
OPERATION CIRCLE - HANUPAKONDA

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Fig: Electricity bill for the month of July 2023

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### 3. Clean and green campus:

The Green Campus Policy of the college envisions a Clean and Green Campus where environmental friendly practices and education combine to promote sustainable and ecofriendly practices in the campus and beyond the campus.

To Create awareness about environmental issues by organizing Events, Rallies, Awareness Campaigns, Cleanliness Drives, Seminars, Workshops, presentations, Tree Plantation Drives, Rangoli Competitions, Essay Competitions, etc.

#### Initiatives Taken to Implement the Clean and Green Campus Policy

- Landscaping with Trees and Plants
- Rainwater Harvesting/storage
- Hazardous Chemical Waste Management
- Solid Waste Management



Fig: College Parking



Fig: Greenery in the campus

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Fig: Swachh Bharat in the college campus



Fig: Solid Waste collector

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Fig: Landscaping with Trees and Plants

#### 4. Beyond the campus environmental promotion and sustainability activities

SRITW has been organizing various awareness programs such a plantation of trees, swatchbharat programs, clean and green environment, etc are organized.



Fig: Swachh Bharat rally

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Fig: awareness activity and cleanliness campaign

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Fig: paper clip of Swachh Bharat – Bhadrakali bund cleaning program

SRITW has organized a rally at Bhadrakali bund to create awareness among the people on Swachh Bharat mission to maintain clean and healthy environment. The program has conducted by the NSS unit, in the program 150 NSS student volunteers participated and collected 50 KGs of plastic waste from the lake handed over to municipal department.

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