

# Certificate of Compliance

## GREEN AUDIT REPORT


of

**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION AND RESEARCH,**

Post Box No 62, Tamaka, Kolar- 563103.

This is to certify that a Green Audit of SDUAHER campus has been conducted by Dr. Vanishri Arunachalam and Mr. C. Madhan Mohan of M/s Tulasi EOHS Consultancy Services on 29<sup>th</sup> June 2020.

The Audit Report has been found to be satisfactory.

  
**Mr. Anil Patil Kulkarni**  
Managing Director



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## GREEN AUDIT REPORT SDUAHER



Submitted by  
**TULASI EOHS CONSULTANCY SERVICES**

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This is to certify that the following utilities were carried out Green audit in the month of June 2020.

**Details of Facilities Audited:** Main building of Academy / Institution which includes Laboratories, Libraries, Hospitals, All departments and Hostel and Academy/ Institution Canteen.



**Dr. Vanisri Arunachalam**



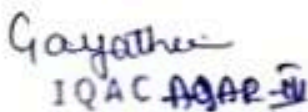
**Er. C. Madhan Mohan**

Authorized Signatory

**For TULASI EHS CONSULTANCY SERVICES**

Date: 29-06-2020

Place: Chennai



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# GREEN AUDIT REPORT

2019-2020

Done by

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## 1. INTRODUCTION

"The term 'Green' means eco-friendly or not damaging the environment. This can acronymically be called as 'Global Readiness in Ensuring Ecological Neutrality' (GREEN).

Green Audit is a process of Systematic identification, Quantification, Recording, Reporting and Analysis of components of environmental diversity of various establishments. It aims to analyze environmental practices within and outside of the concerned sites, which will have an impact on the eco-friendly ambience. Green audit can be a useful tool for an institution to determine how and where they are using the most energy or water or resources; the institution can then consider how to implement changes and make savings.

Educational institutions now a day are becoming more sensitive to environmental factors and more concepts are being introduced to make them eco-friendly. To preserve the environment within the campus, various viewpoints are applied by the several educational institutes to solve their environmental problems such as promotion of the energy savings, recycle of waste, water reduction, water harvesting etc..

Green audit is defined as an official examination of the effects a institution has on the environment. As a part of such practice, internal environmental audit (Green Audit) is conducted to evaluate the actual scenario at the campus.

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## 2. OBJECTIVES

The Green Audit of an institution is self- assessment of the institution which reveals the role of the institution in mitigating the present environmental problems. The institution has been putting efforts to keep our environment clean since beginning. The non-scholastic effort has not been documented. Hence, 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:

- a. To promote environmental aspects, the institute has initiated steps which include in campus rainwater harvesting projects,
- b. Complete ban on plastics within the campus,
- c. Solar water heating systems in all hostels,
- d. Treatment of wastewater and its recycling,
- e. Percentage of power requirement of the Academy met by the renewable energy sources Solar panels for street lighting and Solar Energy is used for water heating,
- f. The academy is encouraged the faculty and students to use cycles to save environment, prevent air pollution and promote healthy lifestyle.

## 3. METHODOLOGY

The purpose of the Green audit is to ensure the commitments mentioned in the Green policies are adhered. This includes

- Inspection of the campus,
- Document Review,
- Interview with Key personnel,
- Measurements and recommendations.

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## 4. EXECUTIVE SUMMARY

Sl No	Area	Observation	Remarks
1	Tree Plantation	Institution has carried out tree plantation activity. Several type of trees has been planted by students and staffs in Botanical or Medicinal significance	<ul style="list-style-type: none"> <li>NSS, YRS and other associations also organize extension and outreach Activities</li> <li>Planting many trees in the campus, community and villages are one of the regular features of NSS</li> </ul>
2	Energy conservation	The steps taken to reduce energy consumption is a great achievement in all aspects like usage of fluorescent, usage of daylight, A/c Controlled at 25° C, reduction of standby electronic gadgets when not in use.	Good support from the institution and Good initiative taken by institution towards reduction of energy consumption
3	Use of renewable energy	<ul style="list-style-type: none"> <li>Solar Panels – the entire rooftops of all the hostels, the hospital and the guest house are covered with solar panels - 93500 LPD, so as to provide hot water facility to all the inmates</li> <li>It has an Effluent treatment plant (capacity more than 5 liters per day), where the wastewater is treated and is used for watering the plants in the campus and for building construction work.</li> </ul>	<ul style="list-style-type: none"> <li>Good initiative taken by institution towards use of renewable energy.</li> <li>The Academy practices wastewater management system effectively to keep the campus clean, hygienic and free from any sort of pollution.</li> </ul>

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4	Water harvesting	Several types of water saving system adhered like <ul style="list-style-type: none"> <li>• Rainwater harvesting system</li> <li>• Soak pits to collect the rainwater</li> </ul>	Underground drainage system avoids pollution. Assessment of water samples for their potability in the campus is done regularly by the Department of Microbiology and Engineering Section.
5	Solar panels	Solar Panels – the entire rooftops of all the hostels, the hospital and the guest house are covered with solar panels - 93500 LPD so as to provide hot water facility to all the inmates.	Good initiative taken by institution towards use of renewable energy.
6	Efforts for carbon neutrality	Several activities taken by the organization for carbon neutrality like, Prevention of pollution, tree sampling, reduction of paper usage in many ways, Plastic free zone.	Good initiative taken by the institution towards prevention of pollution and make the institution a greenery one.
7	Bio-hazardous waste management	Segregation at the point of generation awareness is great achievement and waste management is carried out as per Government regulation.	The good imitative taken by the institution and being a leading example of handling bio-hazardous waste management.
8	E-waste management	E-waste handling techniques are well mannered, Green computing, disposal, inculcating environmental awareness, art from waste etc.	The e-waste management is one among the long term.
9	Effluent treatment and recycling plant	<ul style="list-style-type: none"> <li>• Recycling of wastewater - STP 300KLD and ETP 250KLD.</li> <li>• An ETP, which treat the waste water its being used for flowering and construction work activities.</li> </ul>	The institution practices wastewater management system effectively to keep the campus clean, hygienic and free from any sort of pollution.

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## 5. ABOUT THE INSTITUTION

In the year 1984, a group of dedicated and like-minded visionaries headed by Shri. R.L. Jalappa, a champion of Co-operative movement in the state of Karnataka established Sri Devaraj Urs Educational Trust for Backward Classes with the focus on provisioning of medical and health care education and social responsibility and community participation.

## 6. VISION & MISSION STATEMENT

### 6.1 Vision

"ACADEMY OF EXCELLENCE - KNOWLEDGE FOR POSTERITY"

### 6.2 Mission

- To be a global center of excellence for Teaching, Training and Research in the field of Higher education.
- To inculcate scientific temper, research attitude and social accountability amongst faculty and students.
- To promote with value-based education for the overall personality development and leadership qualities to serve the humanity.

### 6.3 Total Campus

Built up Area	153121.48 Sq.mt
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## 7. CAMPUS INFRASTRUCTURE

### Student hostel

The institution Hostels are independent units in respects to its internal administration under the overall supervision of council of Wardens & Hostel Management. The hostels are situated within the campus & have separate hostel office & mess within the hostel premises.

### Accommodation Details for Men's Hostel

Hostel Name	Total Rooms	Total Capacity	Present Occupants
UG Men's Hostel	163	377	314
Intern's Men's Hostel	48	94	61
PG Men's Hostel	80	158	74
NRI Men's Hostel	31	57	42
Total	322	686	492

### Accommodation Details for Women's Hostel

Type of Hostels	Total Rooms	Total Capacity	Present Occupants
NUGH	98	294	226
PGWH	112	228	140
SWH(AHS)	77	214	90
NRI	31	61	47
JWH	18	44	38
IWH (Guest Rooms)	12	24	0
Total	348	865	541

There are 3 Kitchens, one in Undergraduate Men's Hostel, one in Undergraduate Women's hostel & other in Post Graduate Men's Hostel with dining hall attached.

The other facilities include **RO-UV Plant** for drinking & cooking purpose, reading room, recreation hall with TV facility, Gym, newspaper facility Wi-Fi facility & visitors lounge.

- 7.1 Food Court** - Newly built spacious Food court for the student's refreshment with good quality food stalls.
- 7.2 SPORTS & FITNESS CENTER** - Indoor and outdoor sports facilities are available for Men & Women.
- 7.3 LIBRARY** - The library meets the information needs of the faculty and students. It is housed in the ground and first floor of the silver jubilee building in the campus. **The library is centrally air conditioned and well-furnished for users.** The library has Wi-Fi facilities to browse and access the resources. The library is serving as a medical learning resource center, support to research, educational and clinical needs of the students, and faculty and research scholars of the Academy. The Library is kept open on all working days from 8.30 AM to 9.00 PM. and all general holidays, Sundays and 2nd Saturday from 9.00 AM to 2.00 PM and own book reading section 8.00 AM to 11.00 PM.
- 7.4 GEO TAG GALLERY** - Galleries available in the institution with geo tag images.
- 7.5 BANKING FACILITY** - Separate bank and ATM facility is established within the campus for easy transactions.
- 7.6 STUDENTS CLUB** - Sports club, ICMR, DEMEDCON, & SANKEERNA, Sports, Literacy, Cultural and many more clubs to encourage student's talent.
- 7.7 INFORMATION CENTER** - Incorporated new technology for the betterment and simplifying the process.
- 7.8 CAMPUS STORE** - Within the campus have stores to make availability of basic students' needs.

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**7.9 STUDENT COUNSELLING CENTER** – Students are motivated and made them active by giving proper counseling by recognized counsellor.

**7.10 DIGITAL CLASSROOMS & LABORATORIES** - Spacious ICT based (Podium, Internet, Smart board) classrooms make use new technology-based teaching.

## 8 GREEN AUDITING

### 8.1 Benefits of green auditing

- To safeguard the environment and natural resources used in the institution.
- Address current or potential future problems that may arise during action.
- To provide basis for improved sustainability.
- To create a green campus.
- To enable waste management through reduction of waste Generation, solid- waste and water recycling.
- To create plastic free campus and evolve health consciousness among the stakeholders.
- Providing an opportunity for management to give credit for good environmental performance.
- Empower the organizations to frame a better environmental performance.
- Impart environmental education through systematic environmental Management approach and improving environmental standards.
- Benchmarking for environmental protection initiatives.
- Financial savings through a reduction in resource use.
- Development of ownership, personal and social responsibility for the Institution and its environment.

- Enhancement of institution profile.
- Developing an environmental ethic and value systems in youngsters.
- Green auditing should become a valuable tool in the management for monitoring of environmental and sustainable development programs of the institution

## 8.2 Target areas of green auditing

Basically, Green Audit involves the inspection to assess the total environmental impact of its activities. It indicates what type of carbon footprints organizations are leaving on the planet & also suggest ways to reduce it.

Accordingly, Green Audit mainly emphasizes the following key areas:

1. Energy Conservation
2. Saving Water
3. Greening the workplace
  - a. Efforts of carbon neutrality
  - b. Plantation – Botanical or Medical Significance
  - c. Non-conventional Energy sources-solar panels
4. Waste Management
  - a. Bio- Hazardous
  - b. E-Waste
5. Effluent Treatment and Recycling plant.

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### SDUAHER



Submitted by  
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**Er. C. Madhan Mohan**

Authorized Signatory

**For TULASI EHS CONSULTANCY SERVICES**

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# 1. INTRODUCTION

Achieving a balance between the environment, society and the economy is considered essential to meet the needs of the present without compromising the ability of future generations to meet their needs. Sustainable development as a goal is achieved by balancing the three pillars of sustainability.

Societal expectations for sustainable development, transparency and accountability have evolved with increasingly stringent legislation, growing pressures on the environment from pollution, inefficient use of resources, improper waste management, and climate change, degradation of ecosystems and loss of biodiversity.

Generally Environmental audit is for the impact of the industries and their products on natural resources and environmental quality. In the educational institutions, the impact is less compared to industries but the manpower accounts more for the impacts through Resource depletion, environmental pollution and the infrastructures etc.

It is necessary to have 'Environmental Audit' to ensure sustainable developments. Environmental Audit is a pragmatic management tool, which addresses itself to help an industry or operation, to verify compliance with environmental requirements, to evaluate the effectiveness of the environmental management system, to assess risks and to identify and correct environmental hazards.

Environmental academy management systems and equipment are performing with the aims of:

- i. Facilitating management control of environmental practices.
- ii. Assessing compliance with company policies.
- iii. Facilitating professional competence

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