

GREEN AUDIT REPORT
2020 – 2021

of

**SRI SIDDHARTHA ACADEMY
OF HIGHER EDUCATION**

Prepared by:
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No. 93, 2nd Floor, 7th Cross,
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1. INTRODUCTION:

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 a college to determine how and where they are using the most energy or water or resources. The college can then consider how to implement changes and make savings in carbon foot print. It can also be used to determine the type and volume of waste generation and which can be used for a recycling project or to improve terminization plan. It can create health consciousness and promote environmental awareness, values and ethics. It provides staff and students better understanding of Green impact on campus. If self-enquiry is a natural and necessary outgrowth of a quality education, it could also be stated that institutional self-enquiry is a natural and necessary outgrowth of a quality educational institution.

Thus it is imperative that the college evaluate its own contributions toward a sustainable future. As environmental sustainability is becoming an increasingly important issue for the nation, the role of higher educational institutions in relation to environmental sustainability is more prevalent.

2. OBJECTIVES OF GREEN AUDIT

The Green Audit of an institution is becoming a paramount important these days 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 the environment clean since its inception. But the auditing of this non-scholastic effort of the college has not been documented. 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 aim objectives of this green audit are to assess the environmental quality and the Management strategies being implemented in SSAHE and Constituent College, Tumakuru.

Sri Siddhartha Institute of Technology had a TEQIP Center and is affiliated to SSAHE and is offering post graduate courses. It has many departments recognized as research centers which are spread across its affiliated institutions in Tumakuru, Karnataka. One of its affiliated college, Sri Siddhartha Institute of Technology, is recognized by the World Bank for getting assistance in setting up State-of-the-Art Laboratories, campus facilities, and research centers under the TEQIP (Technical Education Quality Improvement Programme (Phase I & II), a Government of India initiative). The university has signed MoUs with multinational corporations to improve the industry interactions for students and the teachers. SSAHE is a member of the Association of Indian Universities.

Sponsoring Society/Founders



SRI SIDDHARTHA EDUCATION SOCIETY (SSES) was founded by Shikshana Bhishma late. Sri. H. M Gangadharaiah also the Founder Secretary of the society, with the blessings of saint and seer, the father of "Bhoodan movement" Sri. Vinobha Bhave in 1959, has made a leap in the field of education. The Society which started as a residential school in a village near Tumkur then established several Nursery, Primary and High Schools including Pali schools in the later years. It further expanded its domain to Technical, Medical and Dental Education. Today the total number of institutions run by the Society crosses 85 with a total students strength of more than 16000 and staff strength 1800. The main objective of the society is to "REACH THE UNREACHED" in the field of Education.

Presented: National Ophthalmic Conference, Chennai. Besides, he has held many other important positions of prominent committees and Associations in various capacities.

Dr. G. Parameshwara *M.Sc.(Agri), Ph.D(Australia)*

Chancellor, SSAHE

Dr. Parameshwara, born on 6th August 1951, Father Shikshana Bhishma Late Sri. H.M. Gangadharaiah, Ex-MLC and Late Smt. Gangamamma. He did his B.Sc (Agri) Graduation on 1975 and Post Graduation M.Sc (Agri) on 1978 at University of Agricultural Sciences (UAS) Bangalore, Karnataka and obtained Doctor of Philosophy from Waite Agricultural Research Institute, University of Adelaide, Australia on 1984.

As an educationist Dr.G Parameshwara oversees the Deemed University of Medical, Dental and Engineering College and many Schools which are part and parcel of Siddhartha Group of Institutions in Tumakuru, that has provided affordable, quality education to lakhs of Poor, rural students. Member, Australian Society of Plant Physiology, Member, Indian Society of Plant Physiology, Member, Indian Society of Agricultural Sciences. Dr. G. Parameshwara is a highly educated agricultural scientist with Ph.D from Australia. An all-rounder, he was an active sportsman. He has also won many scholarships during his studies.

Dr. G. Parameshwara hails from a family committed to Gandhian ideals. When Late Prime Minister Sri. Rajiv Gandhi Visited Tumkur, he found immense potential in Dr.G. Parameshwara and brought him into active politics. He was first appointed as the Joint Secretary of the KPCC.Smt. Sonia Gandhi recognized Dr.Parameshwara's capabilities and appointed him as prestigious Special Invitee to the Congress Working Committee. He also served as a KPCC, President for the longest period and also as Chairman of the KPCC Campaign Committee, as its Vice President and as a General Secretary earlier.He has been elected to the Assembly five times. He represented Madhugiri Assembly Constituency in the year 1989,1999 and 2004 and after delimitation, Koratagere Assembly Constituency in 2008.He was MLC (2016-2017). Presently he is Member of Legislative Assembly in 2018 from Koratagere Constituency. He has built a broad base of supporters from across dalits, major communities, backward castes and minorities.

Awards

- Karnataka Game Changer Award 2017.(U. K. Karnataka Business Chamber)
- National Unity Award in 1993.
- Distinguished Leadership Award.

4. CONSTITUENT COLLEGES

Sri Siddhartha Medical College, the affiliated medical college, has an intake of 130 for MBBS and 12 for MD in Microbiology, General Medicine, OBG, Paediatrics, Radiology, General Surgery, ENT, Ophthalmology; 8 for diploma in OBG, Child Health, ENT, Ophthalmology, Radiology.

Sri Siddhartha Dental College has 40 BDS undergraduate and 12 MDS postgraduate programmes in Orthodontics, Periodontics, Oral & Maxillofacial Surgery, Pedodontics, Prosthodontia, Oral Pathology.

Sri Siddhartha Institute of Technology has an intake of 790 students in undergraduate engineering disciplines, 144 in postgraduate Master of Technology and 60 Master of Computer Applications.

- Civil Engineering
- Mechanical Engineering
- Industrial Engineering and Management
- Electrical and Electronics Engineering
- Computer Science and Engineering
- Information Science and Engineering
- Electronics and Communication Engineering
- Medical Electronics and Engineering
- Electronics and Tele-Communication Engineering

Post graduate programmes

- Master of Computer Applications
- Master of Technology in Computer Aided Design of Structures
- Computer Aided Design of Structures
- Computer Aided Industrial Drives
- Computer Science and Engineering

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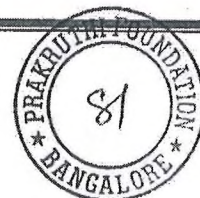
- To undertake extra mural studies, extension programs and field outreach activities to contribute to the development of Society.
- To do all such other acts and things as may be necessary or desirable to further the objectives of the institute.

6. BOARD OF MANAGEMENT OF SSAHE

S. No.	Name	Designation & Address	Position
1	Dr. P. Balakrishna Shetty	Vice-Chancellor SSAHE Agalakote, B.H. Road, Tumakuru - 572107	Chairperson
2.	Dr. A.G. Srinivasamurthy	Principal Sri Siddhartha Medical College Agalakote, B.H. Road, Tumakuru - 572107	Member
3.	Dr. Praveen B Kudva	Principal Sri Siddhartha Dental College, Agalakote, B.H. Road, Tumakuru - 572107	Member
4.	Dr. M.S. Raviprakasha	Principal Sri Siddhartha Institute of Technology Maralur, Kunigal Road, Tumakuru - 572105	Member
5.	Prof. Dr. S Chandrashekar Shetty	Vice-Chancellor Adichunchanagiri University B.G. Nagar - 571448	Nominee of the Chancellor
6.	Dr. K Balaveera Reddy	Former Vice Chancellor – VTU, Belgaum Veerabhadra Nilayam, H.No.10 4th A Cross, 2nd Block, HRBR Layout, Kalyana Nagar, Bangalore - 560043.	Nominee of the Chancellor
7.	Dr.G N Manjunath	Professor & Head Dept. of Pharmacology Sri Siddhartha Medical College Agalakote, B.H. Road, Tumakuru - 572107	Member
8.	Dr. Suhas S	Professor & Head Dept. of Oral Medicine Sri Siddhartha Dental College Agalakote, B.H. Road, Tumakuru - 572107	Member

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30/05/2008 of Govt. of India. Sri Siddhartha Medical College and Sri Siddhartha Dental College have been functioning as constituent colleges of Sri Siddhartha Academy of Higher Education since 01/06/2008. Further as per Govt. of India notification vide No. F.9-31/2006-U.3(A) Dtd. 16/12/2008, the UGC in exercise of the powers conferred by Section 3 of the UGC Act, 1956, included Sri Siddhartha Institute of Technology, Maraluru, Tumakuru, as an off-campus constituent teaching unit of Sri Siddhartha Academy of Higher Education, Tumakuru with effect from 06/03/2009.





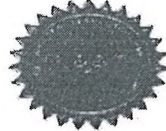
राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद
विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
An Autonomous Institution of the University Grants Commission

Certificate of Accreditation

*The Executive Committee of the
National Assessment and Accreditation Council
on the recommendation of the duly appointed
Peer Team is pleased to declare the
Sri Siddhartha Academy of Higher Education
(Deemed to be University u/s 3 of the UGC Act, 1956)
Agalakote, Dist. Tumkur, Karnataka as
Accredited
with CGPA of 3.01 on four point scale
at A grade
valid up to November 15, 2020*

This is subject to the result of the W.P.No. 142 of 2006 of the Hon'ble Supreme Court of India

Date : November 16, 2015



*D. Singh
Director*



EC/71/A&A/10.1

10. ACADEMY COMMITTEES:

The following Committees have been constituted to oversee achieving excellence in Academics in SSAHE and also to provide an excellent work and study environment conducive to Pedagogical innovation and Academic Excellence.

1. Anti-Ragging Cell

University's Policy against the Ragging in accordance with the directions of Hon'ble Supreme Court of India, UGC and other Regulation bodies.

2. Grievance Redressal Committee:

Mechanism for Students Grievances Redressal:

3. Internal Complaints Committee (ICC)

4. Student Counseling Cell

5. SSAHE Review Committee Purchase Committee

6. Training and placement Cell

7. Transport Committee

8. Selection Committee

9. Internal Quality Assurance Cell (IQAC)

10. Right to Information (RTI)

11. Hostel Management

On-Campus Hostel/s Details;

- Sri Siddhartha Medical College and
- Sri Siddhartha Dental College

Off-Campus Hostel/s Details;

- Sri Siddhartha Institute of Technology

12. ENVIRONMENTAL AUDIT

ECO-FRIENDLY CAMPUS & GREEN PRACTICES IN SSAHE

Areas of Green Auditing

▪ Energy Audit

This indicator addresses energy consumption, energy sources, energy monitoring, lighting, appliances, and vehicles. Energy use is clearly an important aspect of campus sustainability and thus requires no explanation for its inclusion in the assessment.

▪ Water Audit

This indicator addresses water consumption, water sources, irrigation, storm water, appliances and fixtures. Aquifer depletion and water contamination are taking place at unprecedented rates. It is therefore essential that any environmentally responsible institution should examine its water use practices.

▪ Biodiversity Audit

All plant and animal species - including humans - are linked together in a complex web of life; we depend upon biodiversity for our survival. Biodiversity is the key to healthy ecosystems and ultimately a healthy planet. It keeps the air and water clean, regulates our climate and provides us food, shelter, clothing, medicine and other useful products. Each part within this complex web diminishes a little when one part weakens or disappears. The trees work hard to keep the air we breathe clean and healthy. Their leaves take in much of the poisonous unwanted carbon dioxide in the air, and replace it with the oxygen we need for healthy living. In this process, the plants with the help of sunlight, water, minerals and the green material called Chlorophyll within the leaves change the carbon-dioxide into food for themselves. When doing this they release oxygen into the air which is vital for all life on earth. The roots of trees dig deep into the earth and hold it together so that the rain and wind cannot wash or blow it away.

This is very important as the earth has only a very thin layer (seldom more than one foot) of fertile soil covering it.

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- ✓ Over 33% of the Campus under Green Cover
- ✓ Patches of Original Forest Cover
- ✓ Collection of Local Flora
- ✓ Gardens, Live Hedges, Potted Plants

Various environment friendly factors such as Water, Air & Noise, Land, Parking, Flora & Fauna, Socio Economic, Solid Waste Treatment, Solar Systems contribute in making an eco –friendly campus. We at the Sri Siddhartha Academy of Higher Education (Deemed to be University u/s 3 of the UGC Act, 1956), Tumakuru, Karnataka are taking care of all these above mentioned factors in the following ways;

List of faculty and students involved in auditing:

Sl. No.	Auditing Team	Designation	Position
1	Dr.M S Raviprakasha	Principal Sri.Siddhartha Institute of Technology, Tumakuru.	Chairman
2	Dr. T V Mallesh	Professor and Head Department of Civil Engineering, Sri. Siddhartha Institute of Technology, Tumakuru	Convener
3	Dr. D Rajanaik	Professor Department of Civil Engineering Sri. Siddhartha Institute of Technology, Tumakuru	Member
4	Mr. J V Praveen	Assistant Professor Department of Civil Engineering Sri Siddhartha Institute of Technology, Tumakuru	Member
5	Mr. G D Shivaraju	Assistant Professor Department of Civil Engineering Sri Siddhartha Institute of Technology, Tumakuru	Member
6	Mr. S Usha	Assistant Professor Department of Civil Engineering Sri Siddhartha Institute of Technology, Tumakuru	Member
7	Ms. Mahalakshmi B A	Student, 7th Semester, Civil Engineering	Student Member

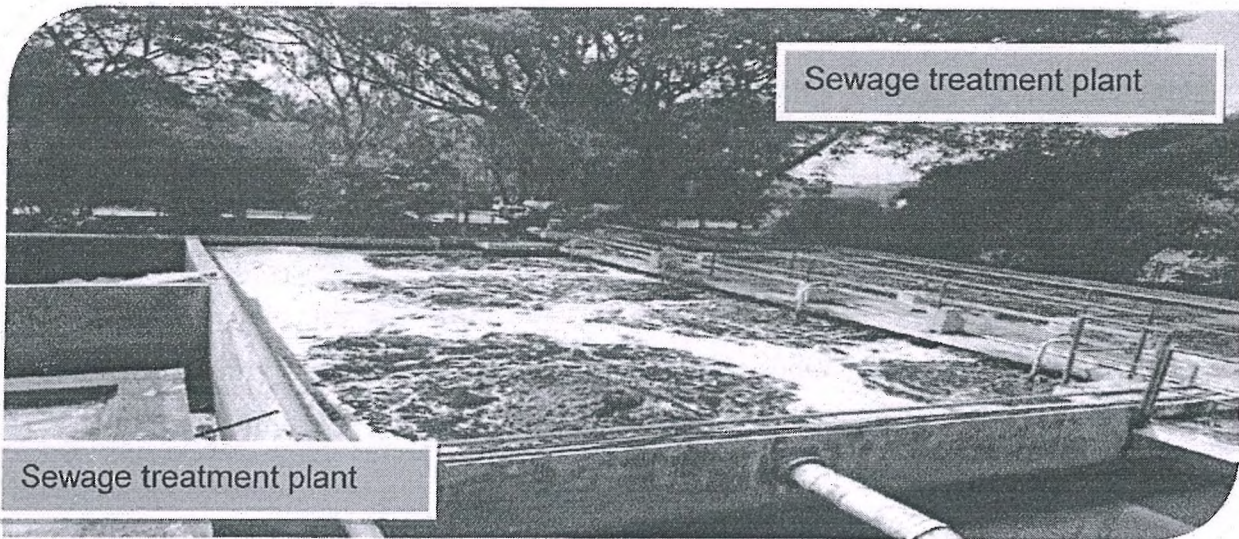
D) Roof Top Rain Water:

A roof top rain water is collected to minimize the withdrawal from ground water and is used for ground water recharge

13. SEWAGE TREATMENT PLANT

Sewage Treatment Plant of 300 K L D has been installed. The treated water is being used for plant at ion within the premises. Sewage treatment plant installed in campus is fully functional. Sewage generated by residential establishment, which include household waste, liquid from toilets, bath showers, kitchen & sink flows into it. It caters for treatment of sewage of entire population staying on campus.

Treated water from it, is being used for watering of lawns, vegetable, garden, cleaning and washing of roads, vehicles etc.



Technology employed for Treatment:

Activated Sludge Process (Extended Aeration) is employed for treatment of waste water generated in the campus. There is no scheme of disposal of excess treated water available as there is no extra treated water is left after using it inside the premises for gardening purpose. Also Effluent Treatment Plant (ETP) is installed for treatment for lab wastewater by providing proper disinfection and then connected to STP for further treatment.

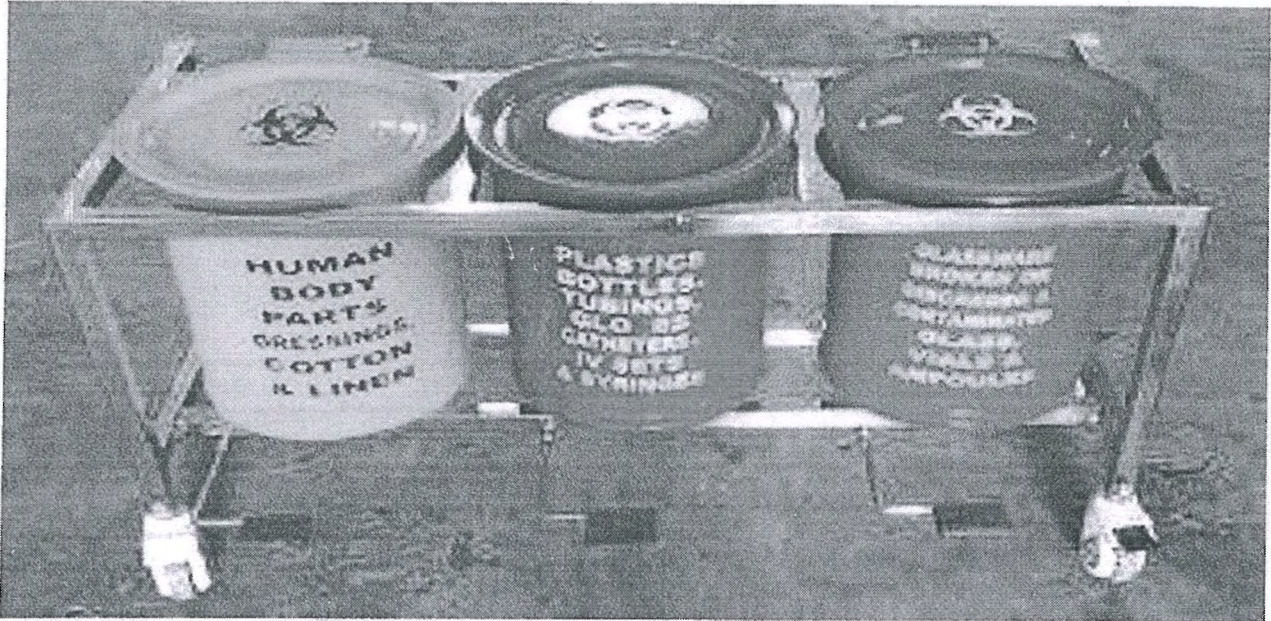
Photographs are enclosed.



Waste Management

Quantity of biodegradable waste generation and mode of disposal as per norms	Biodegradable waste of 600 Kgs per day is collected in a mass and allowed for natural Composting in a prescribed area in the campus.
Quantity of non-biodegradable waste generation and mode of disposal as per norms	Approx. 500 kgs per day of medical waste generated and collected in a bins for disposal.
Quantity of hazardous waste generation and mode of disposal as per norms	Approx. 400 kgs per annum of hazardous waste (used oil, diesel filters, oil filters) routinely collected and handed over to authorized processing recycler.
Quantity of E-waste generation and mode of disposal as per norms	50 kg of E-Waste is collected per annum in E- Waste Bins provided at selected points within the campus and handed over to authorized processing recycler.

b) Segregation of Bio -Medical waste @ Sri Siddhartha Medical College & Hospital & Sri Siddhartha Dental College & Hospital



- Segregation of Bio Medical Waste
- Efficient Disposal of Bio-hazardous Waste
- Vermi bins to convert waste into Compost

Agreement copy with Prajwal biomedical waste management is enclosed.

of solar panels installed on rooftop of hostel buildings can be seen in the aerial photographs enclosed below. It is part of solar system to provide hot water and is one of the major alternate sources of energy, which results in saving electricity a scarce resource in our country. There are 29 solar systems that supply hot water for Hospital building, Hostels, and administrative staffs Quarters staying on campus round the year.



16. AIR ENVIRONMENT:

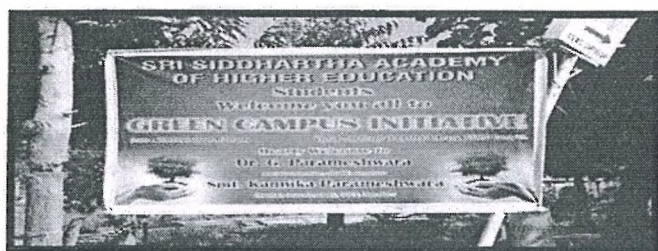
- In the University campus during construction in any stage, water will be sprinkled on the soil to avoid dust generation. The debris and unused construction debris will be removed immediately for recycling, if any, or for designated landfill.
- All vehicles for service activities at the University will be checked for vehicular emission. The agencies will be asked to keep them within prescribed limits. They will also be asked to maintain them properly.
- As discussed earlier there will be no other point source of Air pollution, which are noise free. Chimneys of suitable height have been provided to control the G.L.C. of PM2.5, PM10, SO2 & NOx levels. Extensive tree plantations have been resorted to for further improving the air environment in general and minimize noise levels.

a) Air Emissions and Noise Levels:

The University has installed noise free generators for power backup. No other point source of emissions like boiler, furnace etc. except DG sets which are kept as stand by to run on fossil fuels, have been

Kikar (Acacia Arabic), Neem (Azardirachtaindica), Peepal (Ficusreligiosa), Bargad, Mango, Khair, Safedsiris, Kalasiris, Amaltas, Jamun, Anjura, Bahera, Zizyphus, Eucolyptus, Rain tree, Mahagani, Silver oak, Amla, Orange/Moosumbi, Bamboo, Jackfruit, Ashoka tree, Teak, Honge, Sampige, Muttuga, Poisonous Nut, Tamarind, Jungle Trees, Coconut tree, Guava, Flowered plants, Climbers, Herbs and shrubs. Apart from this Vanamahotsav (Tree Plantation) is celebrated every year in the campus in the way of conducting green gradation and green initiatives.

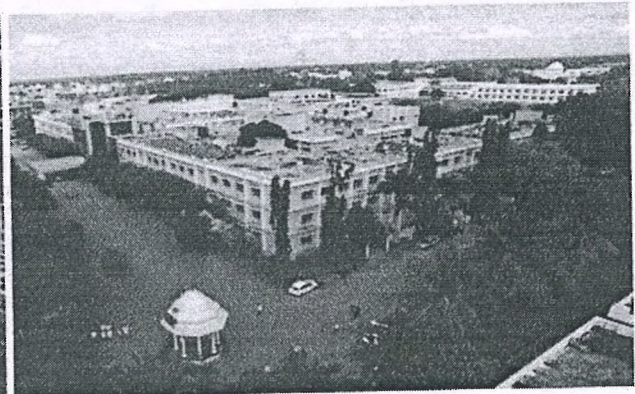
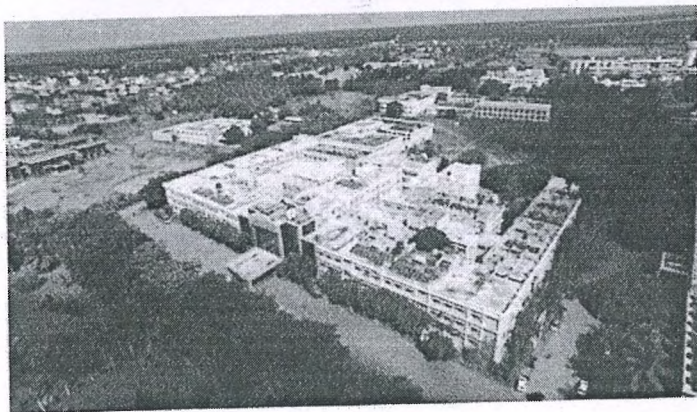
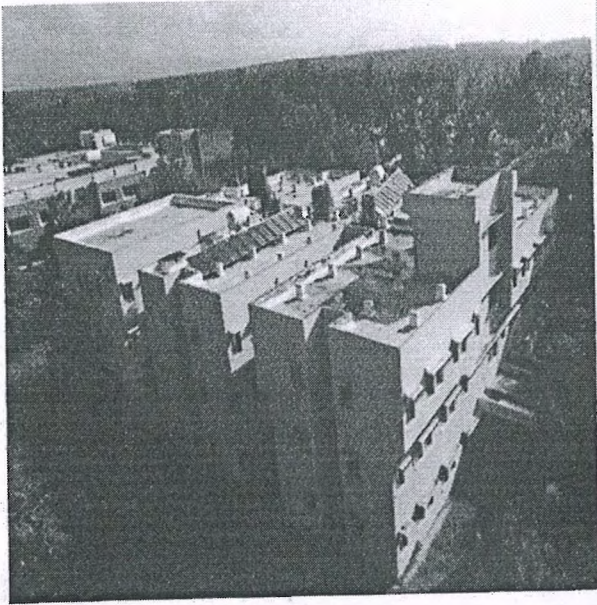
B.) Green practices in Campus:



C.) Fauna:

Prolific wild life is not observed in the University campus, as there is no thick forest/ vegetation is noticed in the University Campus.

FAUNAL GROUP	SCIENTIFIC NAMES
SPIDERS	Myrmachne orientalis (Family Salticidae); Nephilaplipis (Family-Nephilidae); Heteropoda sp (Family-Sparassidae); Phintella vitatta (FamilySalticidae)
MOTHS & BUTTERFLIES	Antheria assmensis; Bombyx mori; Philosamia ricini; Junonia atlites atlites ; Commander (Moduza procris procris); Ethope himachala; Melanitis leda leda ; Paltoporia paraka paraka; Ypthima baldus ; Acraea terpsicore ;



19. PARKING PROVISION:

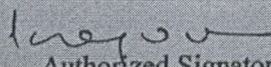
- ✓ 120 NO'S 4 Wheelers parking
- ✓ 500 no's of 2-wheelers parking.

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- f) Adopt the proposed Environmentally Responsible Purchasing Policy, and work towards creating and implementing a strategy to reduce the environmental impact of its purchasing decisions.
- g) Increase reduce, reuse, and recycle education on campus.

RECOMMENDATIONS

- i. Installation of Biogas plant
- ii. Dig sufficient rain water pits in the campus wherever possible and maintain it regularly.
- iii. Name all the trees and plants with its common name and scientific name.
- iv. Display boards of fauna diversity to generate enthusiasm for learners.
- v. Organize earn while learn eco-friendly programmes
- vi. Conduct exhibitions for parents and public on environment and sustainable practices.
- vii. Arrange training programmes on environmental management system and nature conservation.
- viii. Adopt an environment policy for the college.
- ix. Ensure participation of students and teachers in local environmental issues.
- x. Avoid plastic/ thermocol plates and cups in the college level or department level functions.
- xi. Ensure for Plastic free Zone inside the campus.


Authorized Signatory 28/9/2020
Sri Siddhartha Academy of Higher Education
Tumakuru

D. M. S. Raviprakash
Principal
Sri Siddhartha Institute of Technology
Tumakuru - 572 105.


Authorized Signatory
Prakruthi Institute of Environmental Studies
Bangalore