



**Hirasugar Institute of
Technology, Nidasoshi**

**POLICY DOCUMENT
ON ENVIRONMENT
AND ENERGY USAGE**

PREPARED BY
Environmental and Civil
Engineering Solutions



**ENVIRONMENTAL & CIVIL
ENGINEERING SOLUTIONS**

ISO 9001: 2015, IEC 17025: 2017



Policy Document on Environment and Energy Usage

The environment and energy usage policy of is to manage energy in such a systematic way as to minimise its impact on the environment. The policy implies to explore the renewable energy sources to reduce the burden of the government and to find out substitute natural resources as solution to the energy crisis. This environment and energy policy is binding for all the components of the institute and applies to all its stakeholders to the various activities undertaken by the institute. It will help us to embed efficiency and environmental awareness into our everyday activities, thus helping us to realise our responsibilities and commitment to the conservation of natural resources and to limit its usage. Environmental and civil engineering solutions have prepared an environmental policy document by considering the Green initiatives undertaken by the institute.

About the Institute:

Hirasugar Institute of Technology, Nidasoshi was established in the year of 1996. Institute has huge area of 48.20 acres and has been serving the mankind in the field of Engineering and technology. The landscaped grounds of college are widely admired for their beauty. The most valuable investment any educational institution can make is “Nurturing Future Leaders”. With the continuous rise in expectation of essential leadership standards, the institute has torch bearers have taken a responsibility for this investment to nurture the NextGen leaders with a vision to bridge the existing skill gap.

With a firm step forward to attain an academic excellence, several Centres of Excellence, computer labs, and industry-academia associations has been setup at the College in association with the top leaders. The College believes that its primary stakeholders are the students. All aspects of education focus on the core values of contributing to national development while fostering global competencies among students. The College admits students from all social milieus and empowers them through intensive mentoring and counselling to face the challenges of life and become responsible and sensitized citizens of the country.

The institution came into existence in the year 1996 with the sole purpose of providing quality technical education in various disciplines of engineering. Since then the growth of the Institute has been guided by the proactive response to the fast changing world of technology. The institute is approved by All India Council for Technical Education, New Delhi (AICTE, New Delhi) and is affiliated to VTU, Belgaum (VTU, Belgaum). The Institute's main objective is to provide effective technical education and make the students

to become better citizens and accomplished technocrats of our nation. It also helps students to achieve success in their life by helping the students to get recruited into various national and multinational organizations.

Policies:

- To install LED bulbs in the complete campus to save energy
- To set up and rainwater harvesting system to undertake tree plantation drive
- To reduce the CO₂ emissions by several percentage by considering means of transport.
- Use of electronic vehicle in the campus.
- To reduce local air pollution. use eco-friendly vehicles, including bike transport in the campus and use of pedestrian friendly roads
- To install photolytic solar panels for generation of electricity and use it as an alternative source of energy
- To develop a flora and fauna ecosystem in the campus to reduce the carbon emission produce from electricity, vehicle and solid waste
- To increase the carbon sequesterial by the means of plantation of more plants in the campus.
- To maintain a proper water balance throughout the institutional and water reduce water usage.
- To monitor the ambient air at various places and to maintain them under permissible limits.

This policy will be communicated to the students and employees of the institute by a proper communication channel and will be made available to all the stakeholders of the institutes. The main objective of this policy is to save the environment. This policy will be reviewed on regular basis under the guidance of the principal of the college



A handwritten signature in blue ink, appearing to read "Nikhil", written over a horizontal line.

Mr. Nikhil Nitin Kamble
(Auditor)
**Environmental and Civil Engineering
Solutions**



Hirasugar Institute of Technology Nidasoshi

AUDIT REPORT 2022-23



**ENVIRONMENTAL & CIVIL
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ISO 9001: 2015, IEC 17025: 2017



Editorial

In the Era of global warming and climate change every citizen has to reduce their own carbon foot prints to tackle with the adverse impacts of climate change. A green audit of any academic institution reveals ways in which we can reduce energy consumption, water use and reduction in emission of carbon dioxide in the environment. It is a process to look into and ask ourselves whether we are also contributing to the degradation of the environment and if so, in what manner and how we can minimize this contribution and bring down to zero and preserve our environment for future generation.

Hirasugar Institute of Technology, Nidasoshi administration has already taken a step towards the green approach and conducted green audit of campus in the year 2022-2023. As an outcome of this institute has taken green steps to reduce its carbon foot prints by several means in campus viz. sustainable fittings, tree plantation and green computing in the administration and examination. The responsibility of carrying out the scientific green audit was given to Environmental and Civil Engineering Solutions. The organization has followed the rules and regulation of Ministry of Environment and Forest, Govt. of India and Central Pollution Control Board, New Delhi.

A questionnaire was prepared based on the guidelines and format of CPCB, New Delhi to conduct green audit. The information related to consumption of resources like water, electricity and handling of solid and hazardous waste was collected in the formats from main building support services and departments. The data collected was grouped and was tabulated in Excel sheets and analysed. The graphs of the analysed data were prepared for getting quick idea of the status. Interpretation of the overall outcomes was made which incorporates primary and secondary data, references and interrelations within. Final report preparation was carried out using this interpretation to prepare environment management plan of institute for next two years.

During the preparation of the Audit Report Audit Report Hon. Principal and Vice principal, Dean IQAC encouraged us with their full support. IQAC and other officers of the institute also gave support to carry out this work. We also thank all Heads of the departments and the Co-ordinators gave full co-operation.

Nikhil N. Kamble
(C.E.O and Head)

**Environmental and Civil
Engineering Solutions**

Acknowledgement

We express our gratitude for calling upon us for this audit, mainly the Principal and all other staff members, who were ever helpful and supported us with all the inputs needed for this audit. We thank all the teaching, non-teaching and students for helping us in conducting this audit.

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1. Introduction:

The modernization and industrialization are the two important outputs of twentieth century which have made human life more luxurious and comfortable. Simultaneously, they are responsible for voracious use of natural resources, exploitation of forests and wildlife, producing massive solid waste, polluting the scarce and sacred water resources and finally making our mother Earth ugly and inhospitable. Today, people are getting more familiar to the global issues like global warming, greenhouse effect, ozone depletion and climate change etc. Now, it is considered as a final call by mother Earth to walk on the path of sustainable development. The time has come to wake up, unite and combat together for sustainable environment.

Considering the present environmental problems of pollution and excess use of natural resources, Hon. Prime Minister, Shri. Narendra Modiji has declared the Mission of Swachh Bharat Abhiyan. Also, University Grants Commission has mentioned “Green Campus, Clean Campus” mission mandatory for all higher educational institutes. 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.

Green Audit is the most efficient ecological tool to solve such environmental problems. It is a process of regular identification, quantification, documenting, reporting and monitoring of environmentally important components in a specified area. Through this process the regular environmental activities are monitored within and outside of the concerned sites which have direct and indirect impact on surroundings. Green audit can be one of the initiative for such institutes to account their energy, water resource use as well as wastewater, solid waste, E-waste, hazardous waste generation. Green Audit process can play an important role in promotion of environmental awareness and sensitization about resource use. It can create consciousness towards ecological values and ethics. Through green audit one can get direction about how to improve the condition of environment.

1.1 Need of audit:

Green auditing is the process of identifying and determining whether institutions practices are eco-friendly and sustainable. Traditionally, we are good and efficient users of natural resources. But over the period of time excess use of resources like energy, water, chemicals are become habitual for everyone especially, in common areas. Now, it is necessary to check

whether our processes are consuming more than required resources? Whether we are handling waste carefully? Green audit regulates all such practices and gives an efficient way of natural resource utilization. In the era of climate change and resource depletion it is necessary to verify the processes and convert it in to green and clean one. Green audit provides an approach for it. It also increases overall consciousness among the people working in institution towards an environment.

1.2 Goals of audit:

Institute has conducted a audit with specific goals as:

1. Identification and documentation of green practices followed by college.
2. Identify strength and weakness in green practices.
3. Conduct a survey to know the ground reality about green practices.
4. Analyse and suggest solution for problems identified from survey.
5. Assess facility of different types of waste management.
6. Increase environmental awareness throughout campus.
7. Identify and assess environmental risk.
8. Motivates staff for optimized sustainable use of available resources.
9. The long term goal of the environmental audit program is to collect baseline data of environmental parameters and resolve environmental issue before they become problem.

1.3 Objectives of Audit:

1. To examine the current practices which can impact on environment such as of resource utilization, waste management etc.
2. To identify and analyse significant environmental issues.
3. Setup goal, vision and mission for Green practices in campus.
4. Establish and implement Environmental Management in various departments.
5. Continuous assessment for betterment in performance in green practices and its evaluation.
6. To prepare an Environmental Statement Report on green practices followed by different departments, support services and administration building.

1.4 NAAC criteria VII Environmental Consciousness:

Institutes are playing a key role in development of human resources worldwide. Higher education institutes campus run various activities with aim to percolate the knowledge along with practical dimension among the society. Likewise different technological problems higher education institutes also try to give solution for issues related to environment. Different types of evolutionary methods are used to assess the problem concerning environment. It includes Environmental Impact Assessment (EIA), Social Impact Assessment (SIA), Carbon Footprint Mapping, Green audit etc

National Assessment and Accreditation Council (NAAC) which is a self-governing organization that declares the institutions as Grade according to the scores assigned at the time of accreditation of the institution. The intention of green audit is to upgrade the environmental condition inside and around the institution. It is performed by considering environmental parameters like water and wastewater accounting, energy conservation, waste management, air, noise monitoring etc. for making the institution more eco-friendly.

Students are the major strength of any academic institution. Practicing green actions in any educational institution will inculcate the good habit of caring natural resources in students. Many environmental activities like plantation and nurturing saplings and trees, Cleanliness drives, Bird watching camps, No vehicle day, Rain water harvesting, etc. will make the students good citizen of the country. Through Green Audit, higher educational institutions can ensure that they contribute towards the reduction of Global warming through Carbon Footprint reduction measures.

1.5 Benefits of Green Audit to an Educational Institute:

There are many advantages of green audit to an Educational Institute:

1. It would help to protect the environment in and around the campus.
2. Recognize the cost saving methods through waste minimization and energy conservation.
3. Find out the prevailing and forthcoming complications
4. Empower the organization to frame a better environmental performance.
5. It portrays good image of institution through its clean and green campus.

2. Overview of Institute:

Hirasugar Institute of Technology, Nidasoshi was established in the year of 1996. Institute has huge area of 48.20 acres and has been serving the mankind in the field of Engineering and technology.



The landscaped grounds of college are widely admired for their beauty. The most valuable investment any educational institution can make is “Nurturing Future Leaders”. With the continuous rise in expectation of essential leadership standards, the institute has torch bearers have taken a responsibility for this investment to nurture the NextGen leaders with a vision to bridge the existing skill gap. With a firm step forward to attain an academic excellence, several Centres of Excellence, computer labs, and industry-academia associations has been setup at the College in association with the top leaders. The College believes that its primary stakeholders are the students. All aspects of education focus on the core values of contributing to national development while fostering global competencies among students. The College admits students from all social milieus and empowers them through intensive mentoring and counselling to face the challenges of life and become responsible and sensitized citizens of the country.

The institution came into existence in the year 1996 with the sole purpose of providing quality technical education in various disciplines of engineering. Since then the growth of the Institute has been guided by the proactive response to the fast changing world of technology.

The institute is approved by All India Council for Technical Education, New Delhi (AICTE, New Delhi) and is affiliated to Visvesvaraya Technological University, Belgaum (VTU, Belgaum).

Hirasugar Institute of Technology (HIT), Nidasoshi offers 4 years full time Bachelor of Engineering (B.E.) degree courses in various disciplines as mentioned below:

UG Courses

- Computer Science & Engineering
- Electronics & communication Engineering
- Electrical & Electronics Engineering
- Mechanical Engineering
- Civil Engineering

Research Centre

- Mechanical Engineering
- Computer Science & Engineering
- Electronics & Communication Engineering
- Electrical & Electronics Engineering
- Engineering Chemistry

The Institute's main objective is to provide effective technical education and make the students to become better citizens and accomplished technocrats of our nation. It also helps students to achieve success in their life by helping the students to get recruited into various national and multinational organizations.

Our Vision

- "To be a preferred institution in Engineering Education by achieving excellence in teaching and research and to remain as a source of pride for its commitment to holistic development of individual and society"

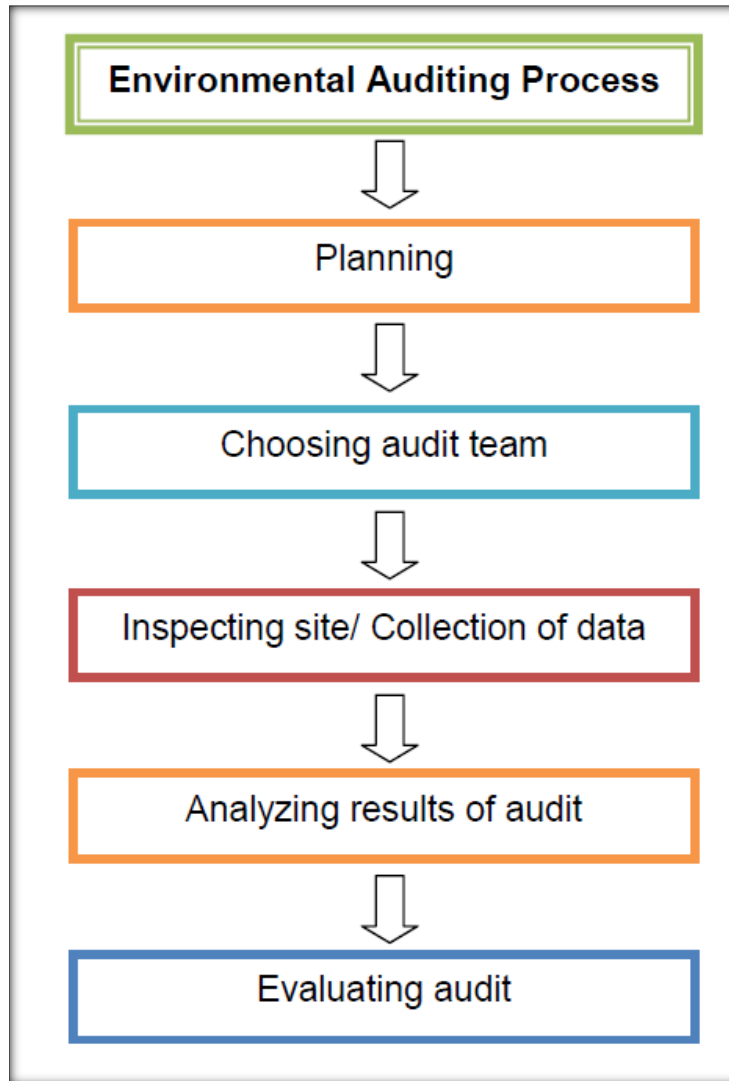
Our Mission

- "To continuously strive for the overall development of students, educating them in a state of the art infrastructure, by retaining the best practices, people and inspire them to imbibe real time problem solving skills, leadership qualities, human values and societal commitments, so that they emerge as competent professionals"

Core values:

- **Holistic Development:** The Students are educated in a spiritual atmosphere under the blessings of His Holiness Mahaswamiji of Shri Math by adopting self-service, participative & cooperative learning and leadership practices along with academics.
- **Student Centric Learning:** To create student centric learning atmosphere by adopting experimental learning, mini projects, students seminars, internship program, industrial visits, technical competitions, project seminars, carrier guidance activities and extracurricular activities.
- **Centre of Excellence:** To develop a centre of excellence in providing education in the field of Engineering and Technology to produce technically competent and socially responsible Engineering professionals.
- **Promoting prosperity:** The sole objective is to provide Engineering Education to the rural youth of this region for prosperous carrier and development of society.
- **Environmental Consciousness:** Students are educated to make optimum use of environmental resources like Soil/Land, Water and conserve the energy so that they can keep the campus clean, green & pollution free.

3. Methodology:



3.1 Audits to be carried out:

- Green and carbon footprint audit
- Energy audit
- Environmental audit
 - Water audit
 - Wastewater audit
 - Solid waste audit
 - Ambient noise audit
 - Ambient air audit



4. Green and Carbon footprint audit:

Green Audit is the most efficient ecological tool to solve such environmental problems. It is a process of regular identification, quantification, documenting, reporting and monitoring of environmentally important components in a specified area. Through this process the regular environmental activities are monitored within and outside of the concerned sites which have direct and indirect impact on surroundings. Green audit can be one of the initiative for such institutes to account their energy, water resource use as well as wastewater, solid waste, E-waste, hazardous waste generation. Green Audit process can play an important role in promotion of environmental awareness and sensitization about resource use. It can create consciousness towards ecological values and ethics. Through green audit one can get direction about how to improve the condition of environment.

Carbon is the basis of life on mother Earth. It is incorporated into the plants through photosynthesis, consumed by animal species through the food, presents in the form of carbon dioxide (CO_2) the atmosphere, locked into the rocks as limestone and compressed into the different fossil fuels such as coal and oil. As CO_2 level in the atmosphere continue to increase, most climate designs or project that the oceans of the world and trees will keep soaking up more than half CO_2 . The plants on land and in the sea, taken up carbon by over many years increased the percentage discharged during decay, and this increased carbon became locked away as fossil fuels beneath the surface of the planet. The starting of the 21st century brought growing concern about global warming, climate change, food security, poverty and population growth. In the 21st century more carbon has been released into the atmosphere than that has been absorbed. CO_2 is a principle component causing global warming. Atmospheric carbon dioxide levels have increased to 40 % from preindustrial levels to more than 390 parts per million CO_2 . On this background it is a need of time to cover the research areas interrelated with climate change.

4.1 Green Cover:

Hirasugar Institute of Technology, Nidasoshi has got a huge green cover and has almost 20 species of vegetation inside the campus. The institute has 2.5 acres of campus and most of this is covered by green area. They have huge plantations along with variation in species Greenery is maintained well by the institute. .



Figure 4-1 Hirasugar Institute of Technology, Nidasoshi Campus

Institute has taken huge efforts to develop its green cover. The institute has about 5.56 acres of green cover. In the vicinity of the institute there are about approximately 601 fully grown trees and more than a 88 growing plants. The below table shows some of the common tree species found.

Species	Count	Species	Count
Pongame oil tree	60	Tamrind Tree	30
Mango tree	60	Blue berry(Jamun)	25
Coconut	15	Alma tree	4
Neem tree	80	Custered Apple	10
Banayan tree	25	Cherry	45
Bamboo tree	5	Ashok tree	30
Fig tree	15	Sandalwood Tree	15
Rubber tree	4	Rudrakshi Tree	4
Curry leaves tree	3	Champk Tree	15
Guava tree	36	Jack fruit Tree	5
Pongame oil tree	60	Tamrind Tree	30
Almond Tree	30	Cycas Tree	10
Glorious Tree	10	Teak tree	60

Mostly there are trees of Mango, cherry and neem etc. Due to this the institute has high carbon sequesterial values. Considering the vicinity some dry plants were observed to approximately about 3. Plants absorb sunlight, 50% is absorbed and 30% reflected so this helps to create a cooler and more pleasant climate through a 3°C temperature reduction in the vicinity. This has also led to increase in biodiversity as more than 18 species of birds were observed. Some of the common birds were viz. Sparrow, wild parrots, little stint, black kite etc.

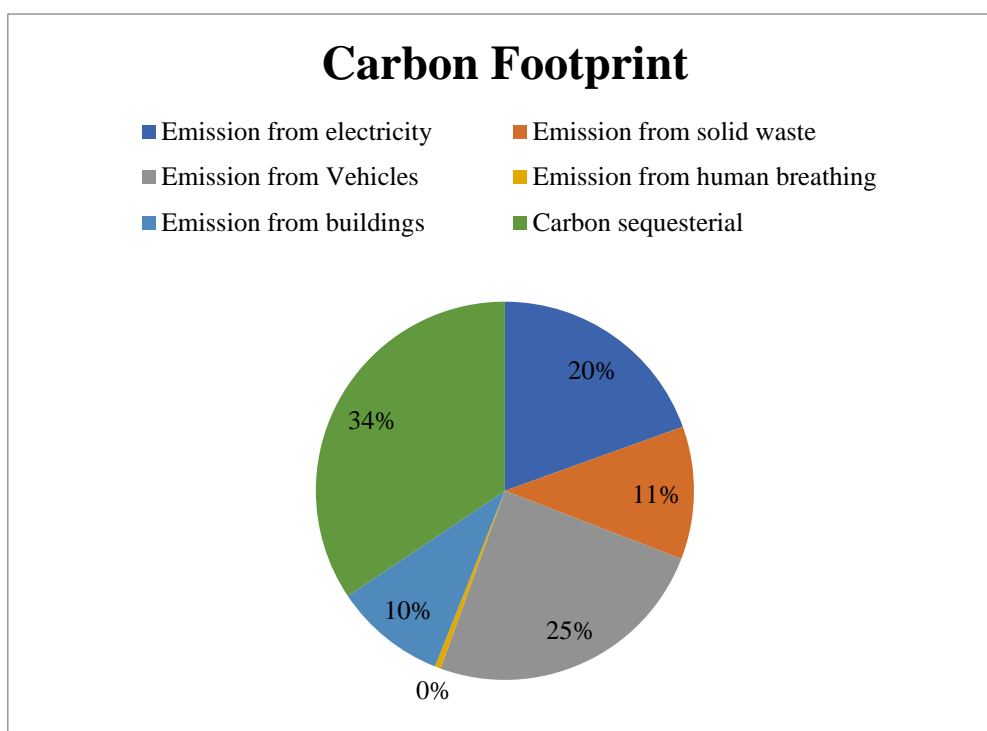
4.2 Carbon Footprint Audit:

Institute has estimated its carbon footprint by factor methodology. Various factors were used to estimate the carbon emissions from Consumption of electricity, generation of solid waste, use of vehicles in campus, carbon emissions due to human breathing and emissions from buildings. At last they have also calculated Carbon sequesterial value i.e. carbon that is absorbed by the plants.

Sr. No.	Section	Emission
1	Emission from electricity	72151.543 kg CO ₂ eq.
2	Emission from solid waste	8253.815 kg CO ₂ eq.
3	Emission from Vehicles	3720.900 Kg CO ₂ eq.
4	Emission from human breathing	41.200 tons of CO ₂ eq.
5	Emission from buildings	8055.400 kg CO ₂ eq.
6	Carbon sequesterial	3795.000 kg CO ₂ eq.

Hence as per the calculation the carbon emission for electricity is 72151.543 kg CO₂ eq. secondly considering emissions from human breathing; the institute has total 727 students and staff. Considering all the staff viz. junior teachers, senior teachers, Non grant, grant CHB they are total of 136. The staff's works for about averagely 6 hours a day in the institute and the students are present for 5 hours averagely daily. Vehicles emit significant amount of gases in environment and the institute has various parking sections in the campus. It was found that averagely 69 vehicles entered the institute daily and travel about 200 m of distance from the gate. Cars also enter the institute and as per observation 10 cars are observed daily. Hence, Overall the institute emits 3720.90 Kg CO₂ eq. Solid waste is very important as it emits significant amount of carbon through it. Institute has a good solid waste management system. Hence the institute develops about 4700 kg of waste daily in both the form of wet and dry. Overall for a year the generation is about 8253.815 kg CO₂ eq. Buildings play an

important role in carbon contribution. During the construction operation and use phase they emit significant amount of carbon. Hence considering total built-up area the carbon emissions could be evaluated. After the estimation the total built-up area observed was approximately about 325220.79 sq. ft. and the carbon emission were 8055.40 kg CO₂ eq. Carbon sequesterial in important as it is the carbon absorbed by the trees. The campus has 150 fully grown trees in the campus; hence the sequesterial value is about 3795 kg CO₂ eq.



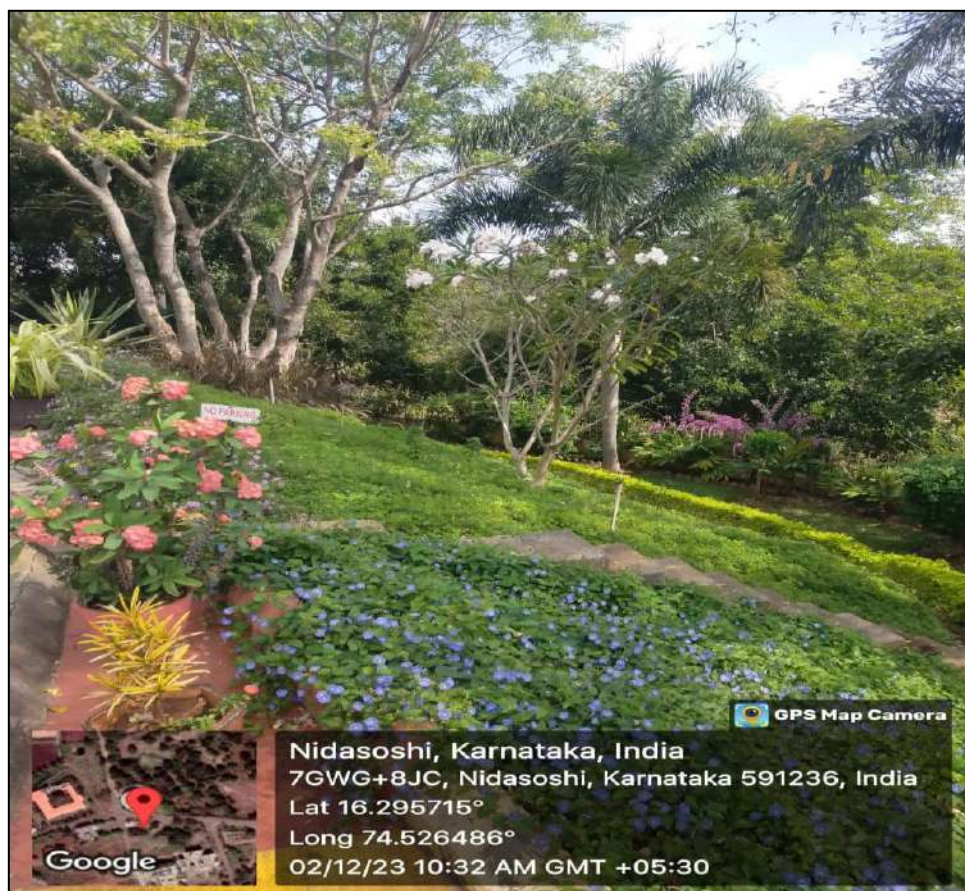
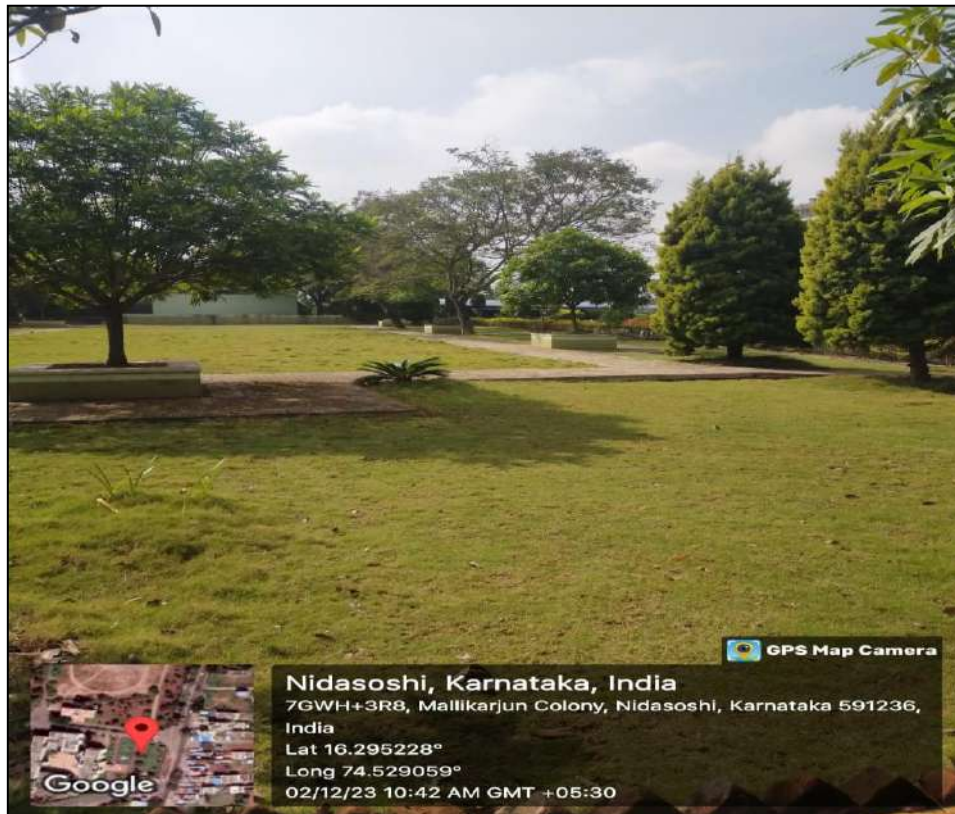
4.3 Conclusion:

- Highest carbon emission was observed from human breathing i.e. 41.20 tons of CO₂ eq. There is no any significant mean to reduce this number as it is not controllable.
- The next is solid waste. The emission from solid waste comprises of 8253.815 kg CO₂ eq. This can be significantly reduced by following simple means. Waste segregation is properly observed by the institute and they should follow the cut out plastic plans. There should be complete ban in using the plastic inside the campus. There should be minimization of food waste as it contributes highest in carbon emissions.
- Considering emission from electricity they can be significantly reduced by decrease in electricity use. This can be done by installing LED lights and using energy efficient equipment's such as machines with high star ratings which save more. Institute can

recognize renewable energy sources and have a setup in the institute. This can lead in significant saving of electricity and reduction in carbon emissions.

- Vehicles have the least emissions in the institute and it is due to the easy approached parking so that vehicles do not roam in the vicinity. All the vehicles travel hardly 200 m in the campus and this has led to lower emissions. Still institute can follows “NO Vehicle Day” on every 2nd Saturday of each month.
- Institute reduces about 3795 kg of CO₂ per by the means of plants. This could be increased by increasing in plantations. Institute can plant more trees in open areas available.
- The plants having highest Carbon sequestration values are suggested. Cinnamomum verum, Eugenia caryophyllid, Bumelia celestina, Acacia Berland Eri, Acacia Francescana, Chinaberry tree, Moringa oleífer, Carya illusoriness, Pinus Arizonian and Buddleia cordata are some of the suggested species for plantation.







ENVIRONMENT AUDIT

5. Environmental Audit:

An environmental audit is a type of evaluation intended to identify environmental compliance and management system implementation gaps, along with related corrective actions. ISO 14001 is a voluntary international standard for environmental management systems ("EMS"). ISO 14001:2004 provides the requirements for an EMS and ISO 14004 gives general EMS guidelines. An EMS meeting the requirements of ISO 14001:2004 is a management tool enabling an organization of any size or type to:

- Identify and control the environmental impact of its activities, products or services;
- Improve its environmental performance continually, and
- Implement a systematic approach to setting environmental objectives and targets, to achieving these and to demonstrating that they have been achieved.

The audit examines the potential hazards or risks posed by the institutes. Areas examined may include environmental policies and procedures, energy use practices, recycling, waste, conservation, and pollution. Then, the institute can use the results to determine what changes need to be made for compliance. In a broad sense, environmental auditing aims to help protect the environment and minimize the risks of business activities to the environment and human safety and health.

5.1 Water Audit and wastewater audit:

Water auditing is a method of quantifying water flows and quality in systems, with a view to reducing water usage and often saving money on otherwise unnecessary water use. Water audit is an effective management tool for minimizing losses, optimizing various uses and thus enabling considerable conservation of water. Water audits trace water use from its point of entry into the facility/system to its discharge into the sewer/river/canal etc. Wastewater audit deals with effective management of wastewater in the system. It deals with proper generation, management, treatment, transfer and disposal of wastewater.

Hirasugar Institute of Technology, Nidasoshi has carried out its water and wastewater audit and has suggested many more ways for water conservation, reuse and recycle. The detail water and waste water report is mentioned below.

5.2 Water Audit report:

Water audit for the “Hirasugar Institute of Technology, Nidasoshi” was carried out. The purpose of the water audit is to provide a thorough understanding of the water uses by identifying and measuring all water using fixtures, appliances, and practices in order to recommend potential water saving efficiencies.

PRIMARY DATA

Sr. No.	Title	Information
1	Name of Institute	Hirasugar Institute of Technology,
2	Address	Nidasoshi
3	Name of company under which water audit is carried out	Environmental and Civil Engineering Solutions, Sangli
4	Number of floors	G + 3
5	Category of building	Educational Institute
6	Nearest ESR location	Campus
7	Water supply hours	4 hrs. daily
8	Water meter present	No

POPULATION DETAILS

Title	Information
Fixed population (Working staff and Students)	Gents: 546
	Ladies: 317
Variable population (Visiting persons)	Gents: 25
	Ladies: 19

SOURCE INFORMATION

Title	Information
Sources of water	River water pumping and bore-well
Connection details	1" PVC pipe inlet and 1" outlet distribution pipe

STORAGE DETAILS

Title	Information
Overhead tank type	PVC and RCC tank
Location	On terrace
Number of tanks	Block A <ul style="list-style-type: none"> • PVC 2000 X 2 • PVC 1000 X 3 • RCC 2 Lakh liters Block B <ul style="list-style-type: none"> • PVC 1000 X 2 • RCC 3 Lakh Liters Block C <ul style="list-style-type: none"> • RCC 20000 Liters Block D <ul style="list-style-type: none"> • RCC 2 Lakh Liters Hostel <ul style="list-style-type: none"> • Girls RCC 1 Lakh Liters • PVC 1000 X 3 • Boys RCC 1 Lakh Liters • PVC 1000 X 3 Office PVC 1000 X 2 Sports complex PVC 1000 X 2 Canteen PVC 1000 X 1
Motor connection details	10 Hp X 1 B Block 2 Hp X 5 D,C Block and hostel
Pumping period	5 hours daily
Underground sump	Yes

WATER USAGE

Toilet	Number of users	Water consumption
Gents toilet	247 users	247 X 12 lit = 6552
Washbasin	552 users	552 X 0.75 lit = 648
Ladies toilet	305 users	305 X 18 lit = 5706
Toilet cleaning	1200 liters	1200 liters
Floor cleaning	1000 liters	1000 liters
Gardening	2500 liters	2500 liters
Laboratories	5000 liters	5000 liters
Total		22,605 lit

5.3 Waste water audit:

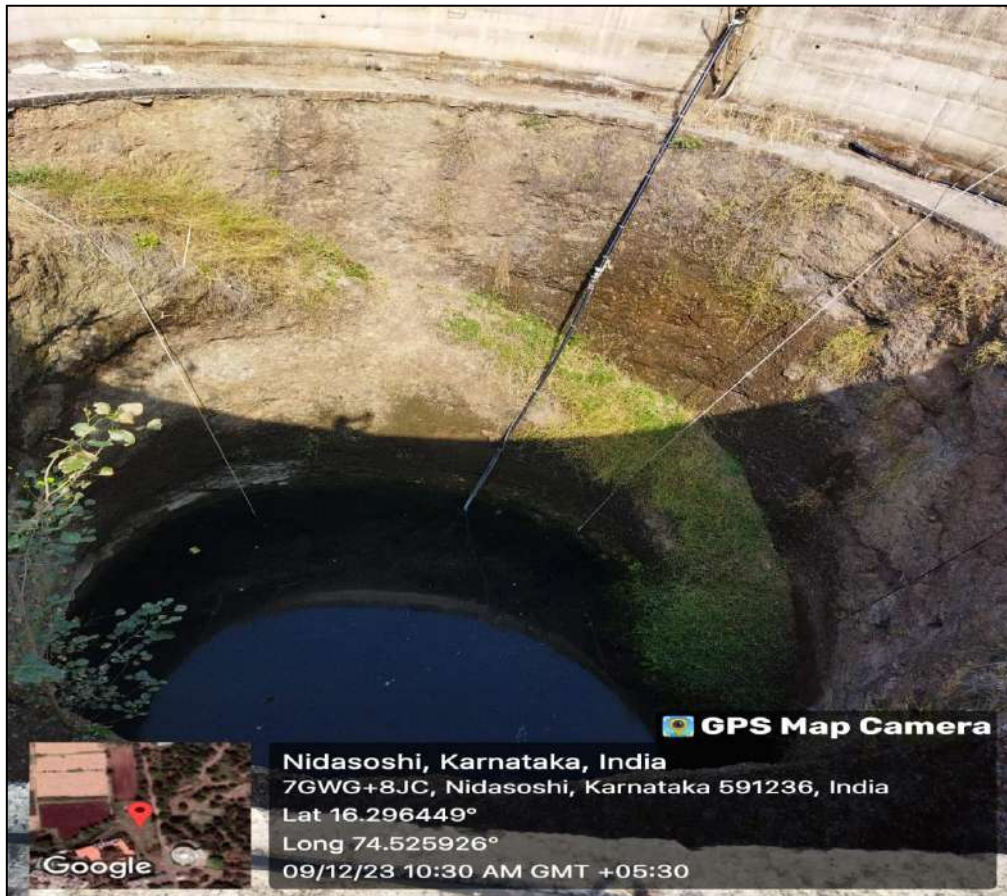
Hirasugar Institute of Technology campus generates huge amount of wastewater. The source for wastewater in the campus is hostels, institute, mess and the washrooms and urinals inside the campus. To estimate the amount of wastewater generated all the water that is used in the washrooms, quarters and hostels is considered as wastewater.

Sr. No.	Section	Wastewater generated in litres
1	Water usage generated in campus	22,605
	Waste water generated	16,953

5.4 Waste water treatment plant at institute:

Hirasugar Institute of Technology lets all its waste water into sewers. Currently there is no any waste treatment facility. Sampling of waste water was done for 3 months for the parameters of COD, BOD, TKN and pH. Following table shows the characterization of wastewater.

Sr. No.	Parameter	Reading
1	pH	7.14
2	COD	211
3	BOD	108
4	TKN	22





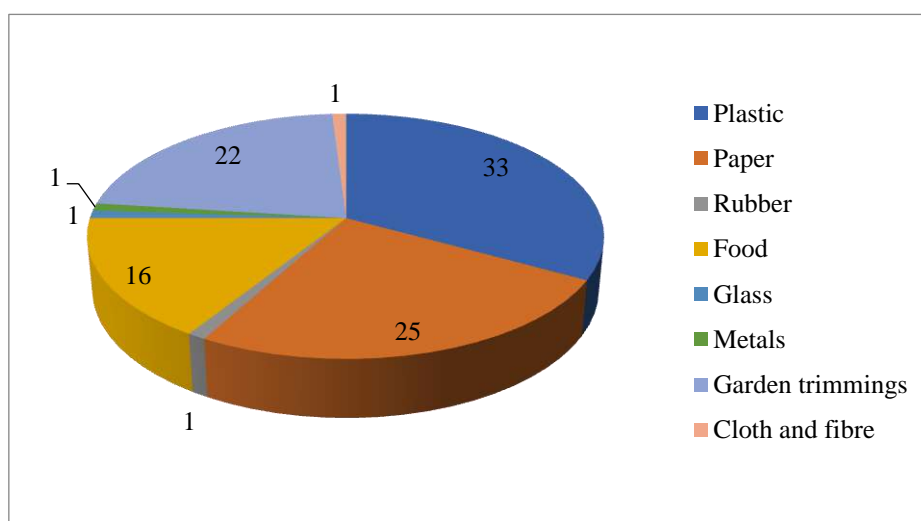


5.5 Solid waste Audit:

A waste audit is a physical analysis of waste composition to provide a detailed understanding of problems, identify potential opportunities, and give you a detailed analysis of your waste composition. A waste audit will help you clearly identify your waste generation to establish baseline or benchmark data, Characterize and quantify waste stream, Verify waste pathways, identify waste diversion opportunities and identify source reduction opportunities.

Solid waste is the unwanted or useless solid material generated from the human activities in residential, industrial or commercial area. Solid waste management reduce or eliminates the adverse impact on the environment and human health. Solid waste audit for Hirasugar Institute of Technology was carried out. The entire premise was analysed for solid waste generation and waste characterization. Overall waste was observed and characterization was done. The below table shows the components of solid waste at institute campus. Quartering method was used and 1 Kg of waste was selected.

Sr. No.	Type of waste	Composition %
1	Plastic	33
2	Paper	25
3	Rubber	1
4	Food	16
5	Glass	1
6	Metals	1
7	Garden trimmings	22
8	Cloth and fibre	1



After analysing all the bins it was observed that plastic had highest contribution viz. 33% followed by the paper waste i.e. 25%. Mostly common observed plastic items were plastic wrappers of chips, soft drinks bottles and chocolate wrappers. The paper waste included paper wrappers, notebook pages, pamphlets and some pieces of cardboard. The third highest waste included garden trimmings. It included small grass, minute branches etc. The least contribution was of cloth, fibre, glass and metals.



5.6 Observations and Conclusion:

- There are separate bins for wet waste and dry waste. Hence, source segregation takes place.
- Institute has taken steps towards paper recycling. The paper waste collected from the bins is send to vendors.
- Plastic ban in campus is implemented but due to lack of seriousness in the students plastic is used in campus. Institute should conduct plastic awareness seminars for both the staff and students.

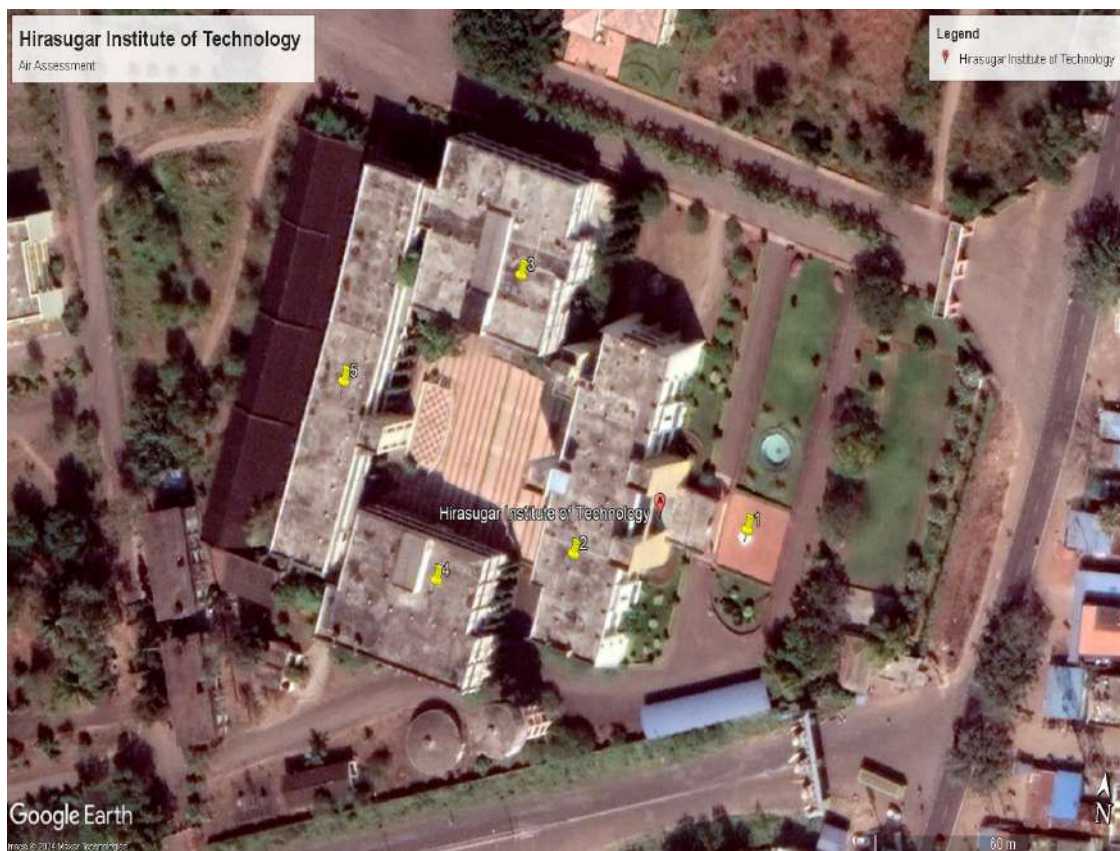
Assessment of soil was done to determine the quality of soil:

Sr. No.	Test	Results
1	pH	6.1
2	NPK	2:3:1
3	Acidity	144 mg/lit
4	Hardness	162 mg/lit

5.7 Ambient Air Audit:

Ambient air quality refers to the condition or quality of air surrounding us and in the outdoors. National Ambient Air Quality Standards are the standards for ambient air quality set by the Central Pollution Control Board (CPCB) that is applicable nationwide. The CPCB has been conferred this power by the Air (Prevention and Control of Pollution) Act, 1981. Hence, auditing this ambient air quality is stated as ambient air audit.

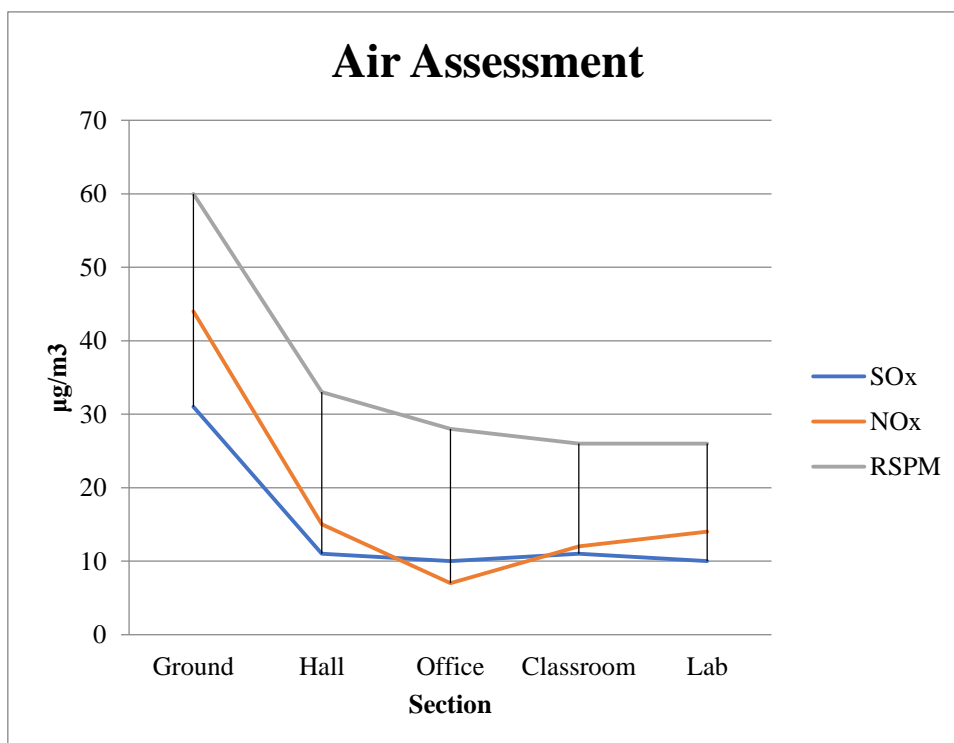
Hirasugar Institute of Technology has carried out its ambient air audit at various locations in the premises. Air quality detector machine PS-21185 was used for air audit. Parameters viz. SO_x, NO_x, RSPM and Air quality were assessed.



Sr. No.	Point number	Location
1	Point No 1	Ground
2	Point No 2	Hall
3	Point No 3	Office
4	Point No 4	Classroom
5	Point No 5	Lab

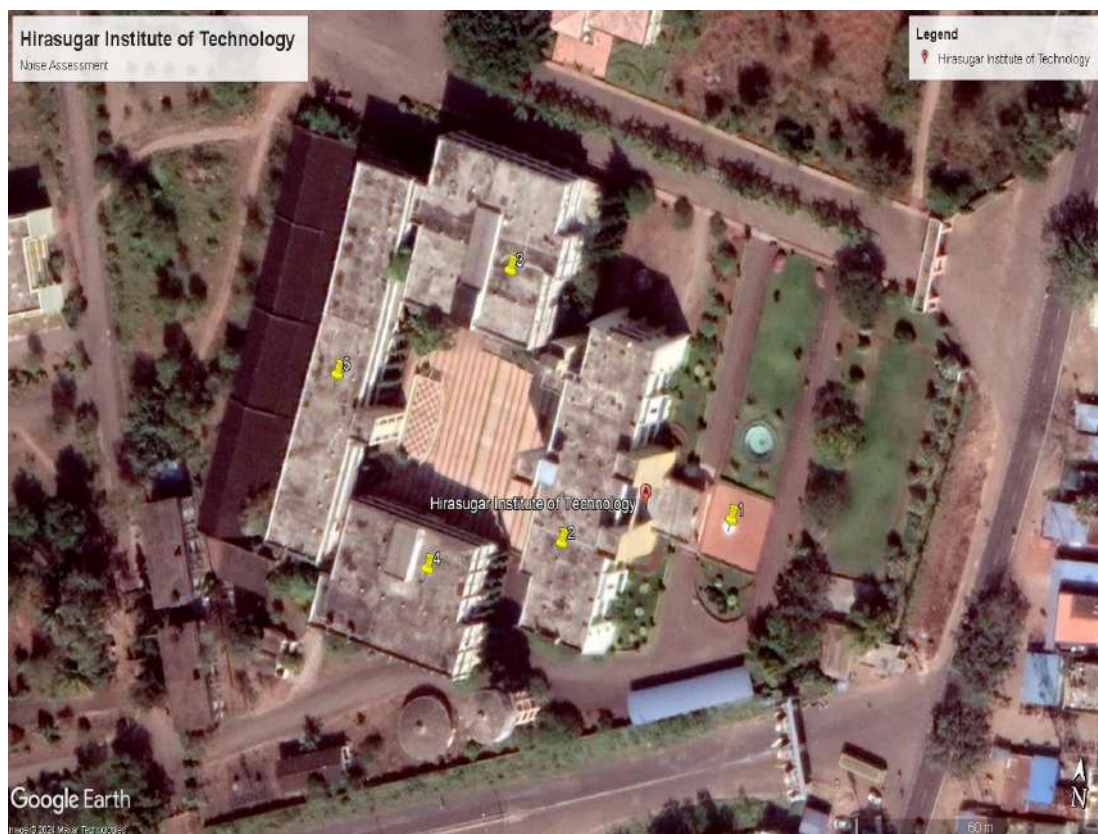
Results of air quality monitoring:

Point No	Location	SO _x	NO _x	RSPM	Quality
	CPCB Limits	80 µg/m³	80 µg/m³	80 µg/m³	-
1	Ground	31	44	60	Good
2	Hall	11	15	33	Fresh
3	Office	10	7	28	Good
4	Classroom	11	12	26	Fresh
5	Lab	10	14	26	Fresh



5.8 Ambient Noise audit:

Ambient sound in relation to audio refers to the background noise present at a given scene or a location. This can include noises such as rain, traffic, crickets, birds, etc. Ambient sound levels are often measured in order to map sound conditions over a specific time to understand their variation with locale and various points. Ambient noise level is measured with a sound level meter. It is usually measured in Decibel (dB). 5 points were selected based on best suitable requirement for noise monitoring. RS-2250 instrument was used. Monitoring was carried out 3 times in a day for 3 months. Readings were collected in morning section, afternoon section and evening section. In addition to this monitoring was also carried out in library section, study room section, classrooms, tutorial rooms and laboratories.

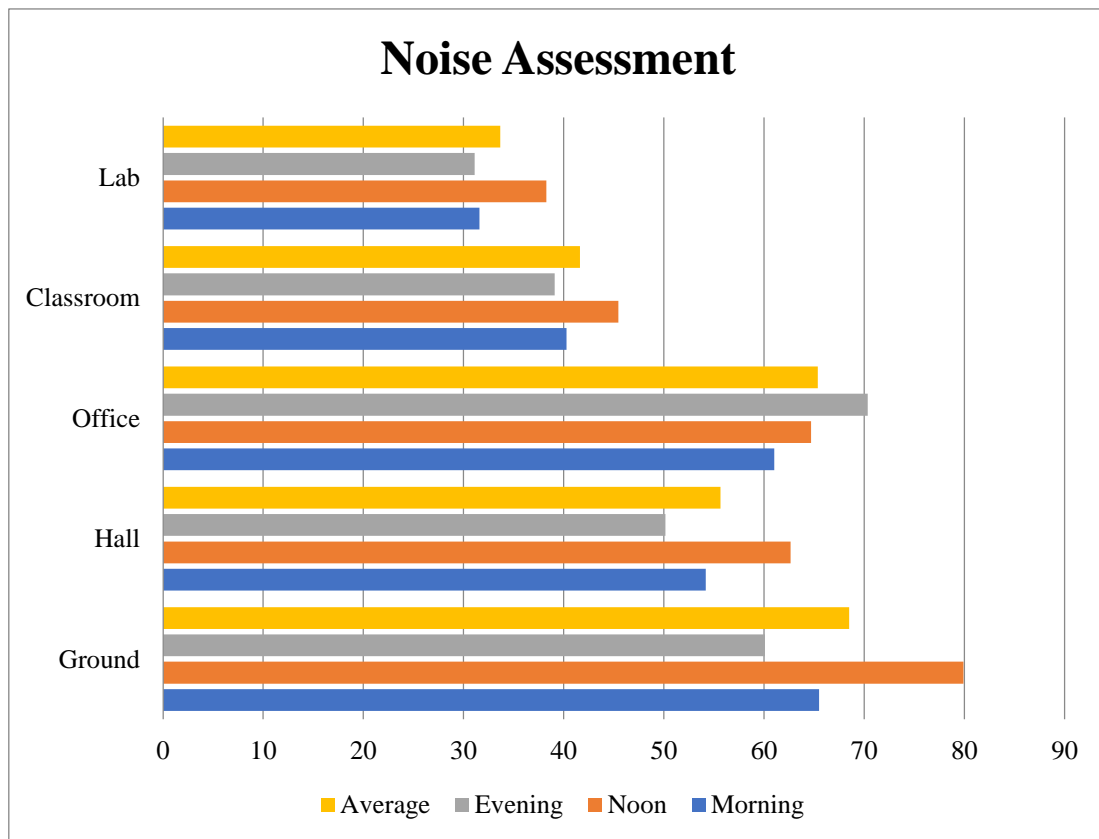


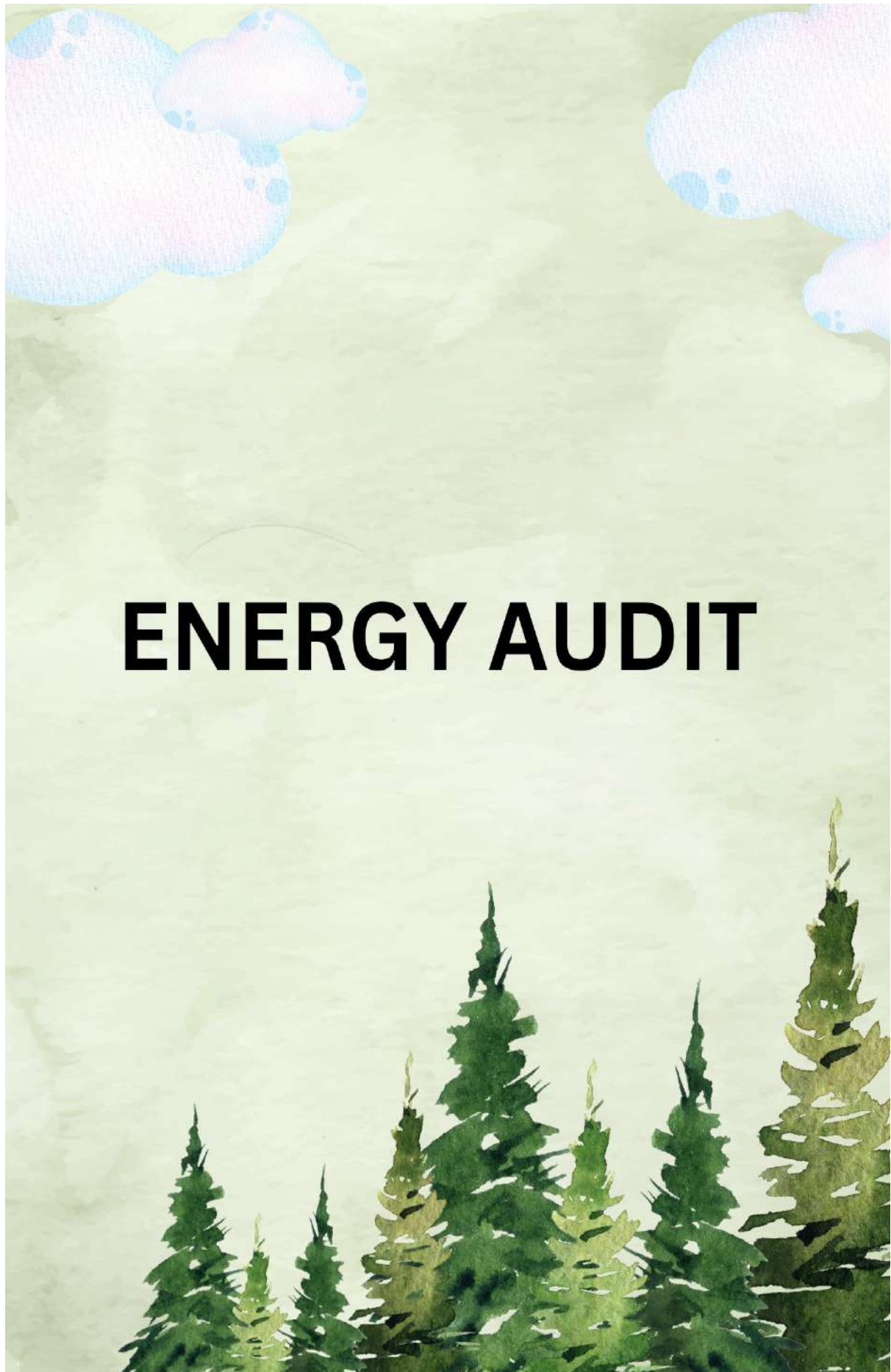
Sr. No.	Point number	Location
1	Point No 1	Ground
2	Point No 2	Hall
3	Point No 3	Office
4	Point No 4	Classroom
5	Point No 5	Lab

Results of noise assessment:

All the values are in decibels. Assessment values present average of 3 months data and the last column present the final average of morning noon and evening.

Point No	Location	Morning	Noon	Evening	Average
1	Ground	65.48	79.91	60.10	68.50
2	Hall	54.18	62.64	50.15	55.66
3	Office	61.02	64.68	70.35	65.35
4	Classroom	40.27	45.47	39.10	41.61
5	Lab	31.59	38.28	31.10	33.66





ENERGY AUDIT

6. Energy Audit:

An energy audit is an inspection survey and an analysis of energy flows for energy conservation in a building. It may include a process or system to reduce the amount of energy input into the system without negatively affecting the output. In commercial and industrial real estate, an energy audit is the first step in identifying opportunities to reduce energy expense and carbon footprint.

A nation is tiring to advance in quantity and quality to the spread of education among the common India and development of their intelligence. In India the entire field of education and other fields of intelligent activities had been monopolized by a handful of men before independence. But today we are marching towards the desirable status of a developed nation with fast strides. But the development should be a sustained one. For achieving such an interminable development energy management is essential. As far as concerning electricity crisis, we are facing lack of electricity during office work. So, institutional management is taking design regarding production of electricity and saving electricity for Eco social aspect. Energy requirement of India is growing and incomplete domestic fossil fuel treasury. The country has motivated strategy to enlarge its renewable energy resources and policy to establish the nuclear power plants. India increases the involvement of nuclear power to largely electrical energy development facility from 4.2% to 9%. India's industrial demand accounted for 35% of electrical power requirement, domestic household use accounted for 28%, agriculture 21%, commercial 9%, and public lighting and other miscellaneous applications accounted for the rest. Energy conservation means reduction in energy consumption without making any sacrifice of quantity or quality. A successful energy management program begins with energy conservation; it will lead to adequate rating of equipment's, using high efficiency equipment and change of habits which causes enormous wastages of energy. By observing all these study lack of electricity and huge electricity demands. It is necessary to plan to be self-sufficient in electricity requirement.

6.1 Connection details:

Institute receives electricity from State Electricity Distribution. Following are the details about connection.

- **Type of connection:** HT -1
- **Tariff:** 170 HT- 2 (C) (II)

- **Contract demand:** 100 KVA
- **Feeder voltage:** 11 KV

Tariff Structure:

As per Distribution Company, HT and LT consumers have an option to take Time of Day (TOD) tariff instead of the normal tariff. Under TOD tariff electricity consumption and maximum demand in respect of HT consumers for different periods of the day i.e. normal period, peak load period and off-peak load period could be recorded by installing TOD meter. The maximum demand and consumption recorded in different periods could be billed on the following rates of the tariff applicable.

TOD Tariffs	Rate % (Rs./Unit)
0000 Hrs- 0600 Hrs & 2200 Hrs- 2400 Hrs	-1.500
0600 Hrs- 0900 Hrs & 1200 Hrs- 1800 Hrs	0.000
0900 Hrs- 1200 Hrs	0.800
1800 Hrs- 2200 Hrs	1.100

Power Factor:

Power Factor (PF) is an indicator of efficient utilization of power. In an AC (Alternating Current) electrical power system, PF is defined as the ratio of real power flowing to the load, to the apparent power in the circuit and is a dimensionless number.



6.2 Bill analysis:

Bill analysis for Hirasugar Institute of Technology had been done for academic year 2022-2023.

Sr. No.	Month	Consumption (Kw)	Bill Amount
1	April 22	20395	201579.00
2	May 22	19809	199578.00
3	June 22	20267	203671.00
4	July 22	17867	181307.00
5	August 22	19002	197495.00
6	September 22	17206	180958.00
7	October 22	16203	177393.00
8	November 22	15253	168313.00
9	December 22	16575	180949.00
10	January 23	19839	211154.00
11	February 23	19275	205792.00
12	March 23	17231	186357.00

6.3 ILER analysis:

Lighting is provided in industries, commercial buildings, indoor and outdoor for providing comfortable working environment. The primary objective is to provide the required lighting effect for the lowest installed load i.e. highest lighting at lowest power consumption. The purpose of performance test is to calculate the installed efficacy in terms of lux/watt/m² (existing or design) for general lighting installation. The calculated value can be compared with the norms for specific types of interior installations for assessing improvement options.

Range	Condition
0.5 or less	Urgent activity required (UAR)
0.51 - 0.70	Review Suggested (RS)
0.70- above	Good

ILER analysis for various sections in the institute was carried out. Firstly using LUX meter illumination was measured and then numerical analysis was carried out. ILER gives idea about lighting conditions and measured regarding improving them.

Sr. No.	Section	LUX reading	ILER	Condition
1	Library	177	0.81	Good
2	Study room	131	0.79	Good
3	Classroom S1	136	0.77	Good
4	Classrooms S2	111	0.88	Good
5	Laboratories	145	0.84	Good
6	Office	145	0.78	Good

Reasons for Good ILER:

- Proper placement of windows and doors so that natural light is available well.
- Good ventilation system.

Inverter Details:

Total number of Inverter: 23

UPS KVA: 111.6

Battery name: Exide

Battery Voltage: 12 V – 192 V

Count of battery: 203



Fitting Details:

LED: 622

Fans: 969

PC: 414

Printers: 41

6.4 Sustainable practices:

Energy Conservation program:



Fire Extinguisher



NSS activities



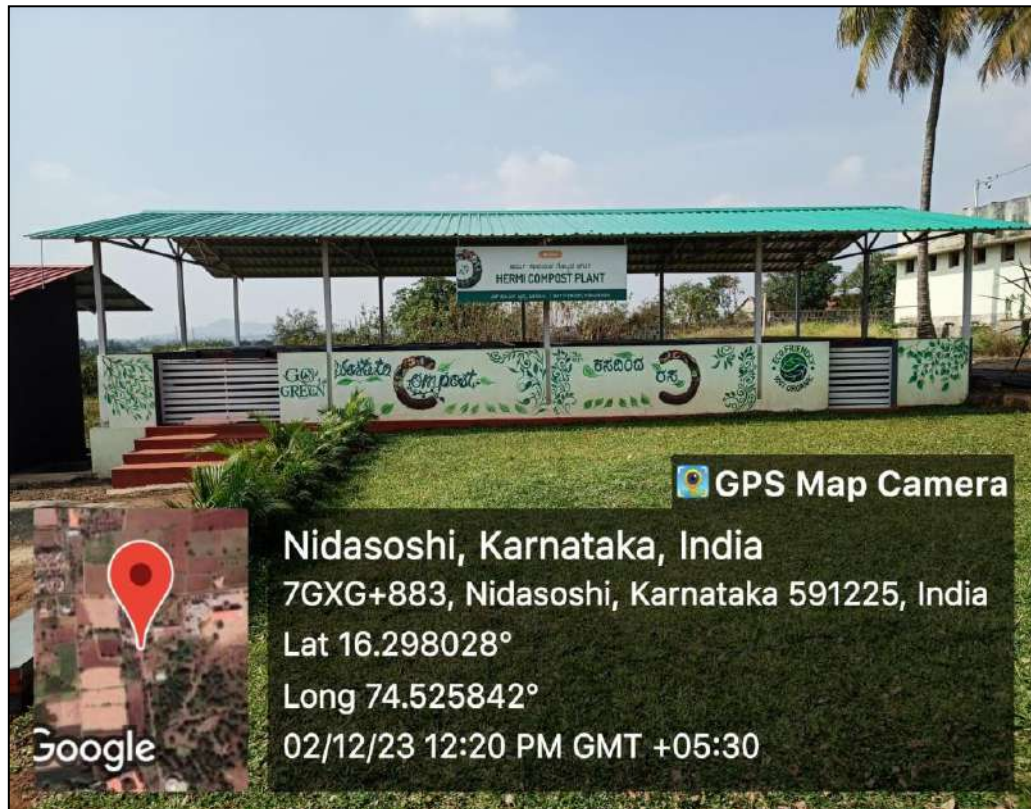
Solar panel:



EV bike charging station



Sewage treatment plant



CERTIFICATE

ENERGY AUDIT

PROUDLY PRESENTED TO

**Hirasugar Institute of Technology,
Nidasoshi**

Our team of Environmental Engineers have analyzed Clean and
Green Energy practices followed by the Institution.

THIS CERTIFICATE WAS AWARDED BY

**Environmental and Civil
Engineering Solutions**



**ENVIRONMENTAL & CIVIL
ENGINEERING SOLUTIONS**
ISO 9001: 2015, IEC 17025: 2017

Snkamble

SEEMA N. KAMBLE
DIRECTOR

Nikhil

NIKHIL N. KAMBLE
AUDITOR

AUDIT YEAR 2022-2023

CERTIFICATE

GREEN AUDIT

PROUDLY PRESENTED TO

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Snkamble

SEEMA N. KAMBLE
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Nikhil

NIKHIL N. KAMBLE
AUDITOR

AUDIT YEAR 2022-2023

Environmental Promotional Activities beyond the campus

Name of the activity: Awareness Program on Energy Conservation and Energy Efficiency

Date: 23/12/2020

Description of Activity:

The department of Electrical & Electronics Engineering, HSIT, Nidasoshi organized the event “Awareness program on Energy Conservation and Energy Efficiency” on 23/12/2020 for community, nearby villagers, staff and students. Under the benign presence of Shri Shivalingeshwar Mahaswamiji at Shri Duradundeshwar Sidda Samsthan Math, Nidasoshi.



Shri. Basavaraj Purjer, AEE, KPTCL, Chikodi delivering a talk on “Importance of Ennergy Conservation and Energy Efficiency” Efficiency on 23/12/2020



Community, nearby villagers, staff and students attending “Awareness program on Energy Conservation and Energy Efficiency” on 23/12/2020



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGG.

Date of Activity held	23/12/2020
Time	11:00am to 1pm
Type of Activity (curricular/co- curricular/extra curricular)	Awareness Program on "Energy Conservation and Energy Efficiency".
Guest:	1. Shri. Basavraj. V. Pujeri, AEE, KPTCL, Chikodi. 2. Dr. S.C. Kamate, Principal, HSIT, Nidasoshi.
Audience:	For the people of Nidasoshi Village and Staff and Students of SJP N Trust's HSIT, BCA college, PUC and Polytechnic, Nidasoshi.
No. of participants:	250
Activity In charge:	Prof. S.D.Hirekodi .

Description of Activity:

The department of Electrical & Electronics Engineering, HSIT, Nidasoshi organized the event "Awareness Program on Energy Conservation and Energy Efficiency" on 23/12/2020 for community, staff, students and nearby villagers, under the benign presence of Shri Shivlingeshwar Maha Swamiji at Shri Duradundeshwar Sidda Samsthan Math, Nidasoshi. The convener of the program Dr. Basavraj Madiggond has highlighted with facts and figures about adverse effect of use of fossil fuels on environment and briefed about some preventive measures. The chief guest of the function, Shri Basavraj Pujer delivered a talk on "Importance of Energy conservation and Energy efficiency " and discussed some government schemes and code of practices followed for Energy conservation and Energy efficiency in electrical power distribution systems. The president of the function Dr. S.C. Kamate, encouraged audience to use energy efficient lighting and other home appliances for energy conservation and Energy efficiency. Shri Shivlingeshwar Maha Swamiji of Shri Duradundeshwar Sidda Samsthan Math, Nidasoshi addressed the gathering to conserve energy for reducing the environment pollution problems. Nearly 250 people attended the awareness program.



S J P N Trust's
Hirasugar Institute of Technology, Nidasoshi
Inculcating Values, Promoting Prosperity
Approved by AICTE, Recognized by Govt. of Karnataka and Affiliated to VTU Belagavi.
Accredited at 'A' Grade by NAAC
Programmes Accredited by NBA: CSE, ECE, EEE & ME

EEE Dept.

EESSA

Activity Report

2020-21
(Odd Sem)

Activity Photographs:



Event Coordinator

HOD

Dr. B. V. Madiggonda

Prof. & Head BE, ME, Ph.D
Dept. of Electrical & Electronics Engg.
HIT NIDASOSHI-591 236

Environmental Promotional Activities beyond the campus

Name of the activity: Awareness Program on Energy Conservation

Date: 20/12/2019

Description of Activity: Electrical & Electronics Engg. Department of HSIT Nidasoshi organized the event “Awareness Program on Energy Conservation” for the people of Nidasoshi and nearby villages on 20/12/2019 at Shri Math Nidasoshi.



Shri. S. K. Tardale, AEE, KPTCL, Chikodi and Smt. Laxmi Ghattekari, Chairman, Gramapanchayat Nidasoshi were the chief guests for the function.



Nidasoshi and nearby villagers attending “Awareness program on Energy Conservation” on 20/12/2019



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGG.

Date of Activity held	20/12/2019
Time	7:00pm to 9:00pm
Type of Activity (curricular/co- curricular/extra curricular)	Awareness Program on Energy Conservation
Guest:	1. Mrs. Laxmi Ghattekari, Chairman, Gram Panchayat Nidasoshi. 2. Mrs. Chandrakala B. Ninganuri, Member, Taluka Panchayat, Nidasoshi. 3. Shri. S. K. Tardale, AEE, KPTCL, Chikodi
Audience:	People of Nidasoshi Village
No. of participants:	Male-32 Female-15
Activity In charge:	Prof. H. R. Zinage & Prof. O. B. Heddurshetti

Description of Activity: EESSA organized the event "Awareness Program on Energy Conservation" for the people of Nidasoshi Village on 20/12/2019 at 7:00pm at Shri Math Nidasoshi. Dr. B. V. Madiggond, HOD, EEE, HIT, Nidasoshi and Convener of the National Energy Conservation week welcomed the gathering and told the importance of Energy Conservation. Shri. S. K. Tardale, AEE, KPTCL, Chikodi was the chief guest and addressed the gathering regarding awareness on Conservation of energy. Mrs. Laxmi Ghattekari, Chairman, Gram Panchayat Nidasoshi was the chief guest for the function. Dr. S. C. Kamate, Principal, HIT, Nidasoshi presided over the function and spoke about how energy can be conserved in our daily life by taking simple precautions. Ten LED bulbs were donated by EESSA to Shri Math, Nidasoshi. Prof. O. B. Heddurshetti, Asst. Prof. EEE Dept. presented vote of thanks.



S J P N Trust's
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EEE Dept.

EESSA

Activity Report

2019-20
(Even Sem)

Activity Photographs:



Amritha
[Signature] 23/12
EESSA Coordinators

[Signature] 01/04/21
HOD
Dr. B. V. Madiggond
Prof. & Head BE, ME, Ph.D.
Dept. of Electrical & Electronics Engg.
HIT NIDASOSHI-591 236

Environmental Promotional Activities beyond the campus

Name of the activity : Rally for Awareness Program on “Energy Conservation” on the occasion of National Energy Conservation Week-2020-21

Date: 23/12/2020

Description of Activity: To create awareness about the energy conservation and Energy Efficiency, a rally was organized by Department of Electrical and Electronics Engineering in association with KREDL, Bangalore on 23/12/2020. Rally started from Hirasugar Institute of Technology and the procession was taken through Nidasoshi village reaching Shri Math Nidasoshi. During rally banners and ply card holding containing slogans about energy conservation were displayed and tips for energy conservation and energy efficiency pamphlets were distributed to rural community.



Rally started at HIT Campus on 23/12/2020



Rally through the Nidasoshi Village on 23/12/2020



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGG.

Date of Activity held	23/12/2020
Time	9:30 am to 11.00am
Type of Activity (curricular/co- curricular/extra curricular)	Rally for Awareness Program on "Energy Conservation" on the occasion of National Energy Conservation Week-2020-21
Guest:	1. Shri. Shivalingeshwar Mahaswamiji, Nidasoshi. 2. Shri. Basavaraj Pujer, AEE, KPTCL Chikodi. 2. Dr. S. C. Kamate, Principal, HIT, Nidasoshi.
Audience:	People of Nidasoshi Village and Staff and Students of SJPN Trust's HSIT, BCA college, PUC and Polytechnic, Nidasoshi.
No. of participants:	280
Activity In charge:	Shri. S.D.Hirekodi.

Description of Activity: To create awareness about the energy conservation and Energy Efficiency, a rally was organized by Department of Electrical and Electronics Engineering in association with KREDL, Bangalore on 23/12/2020 from Hirasugar Institute of Technology campus to Nidasoshi village. The rally started from HSIT and the procession was taken through Nidasoshi and reached shri Math Nidasoshi, where Shri. Shivalingeshwar Mahaswamiji of Shri Math, Nidasoshi addressed the gathering. The Principals and HOD's of all the sister concern institutes, nearly 120 staffs and 160 students of SJPN Trust's Hirasugar Institute of Technology, BCA college, Polytechnic, PU college and CBSE School have actively participated in rally. During rally, banner and play card holdings containing slogans about energy conservation were displayed and tips for energy conservation and energy efficiency pamphlets were distributed to rural community, staff and students.



Activity Photographs:



JS

Event Coordinator

31/3/21

HOD

Dr. B. V. Malligond
Prof. & Head BE, ME, Ph.D.
Dept. of Electrical & Electronics Engg.
HIT NIDASOSHI-591 236

Environmental Promotional Activities beyond the campus

Name of the activity : Rally for Awareness Program on “Energy Conservation” on the occasion of National Energy Conservation Week-2019-20

Date: 20/12/2019

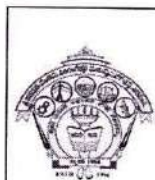
Description of Activity: Department of Electrical and Electronics Engineering in association with KREDL, Bangalore organized a rally to create awareness about the energy conservation and Energy Efficiency on 20/12/2019. Rally started from Hirasugar Institute of Technology and the procession was taken through Nidasoshi village reaching Shri Math Nidasoshi. During rally banners and ply card holding containing slogans about energy conservation were displayed and tips for energy conservation and energy efficiency pamphlets were distributed to rural community.



Rally started at HIT Campus on 20/12/2019



Rally through the Nidasoshi Village on 20/12/2019



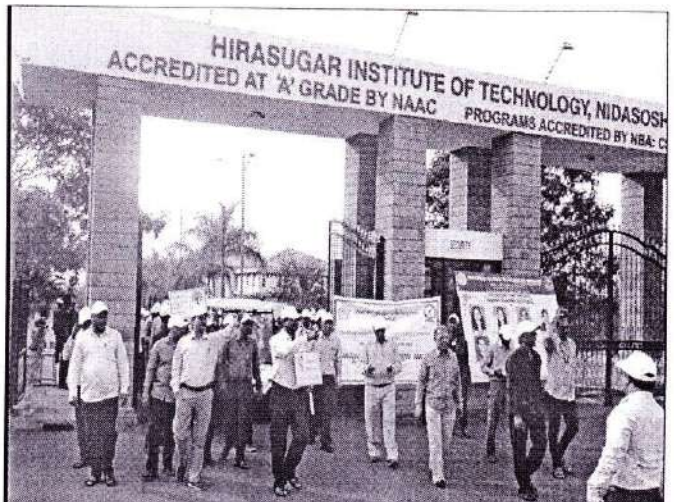
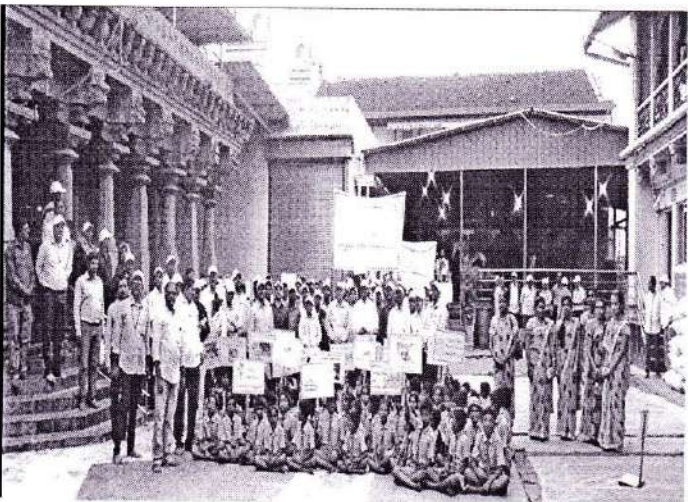
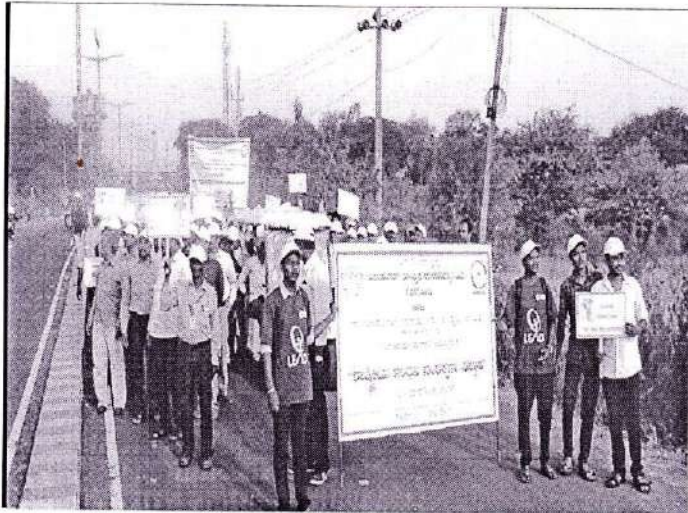
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGG.

Date of Activity held	20/12/2019
Time	3:00 pm to 6.00 pm
Type of Activity (curricular/co- curricular/extra curricular)	Rally for Awareness Program on "Energy Conservation" on the occasion of National Energy Conservation Week
Guest:	1. Shri. G. M. Patil, Secretary, SJPN Trust, Nidasoshi. 2. Dr. S. C. Kamate, Principal, HIT, Nidasoshi.
Audience:	People of Nidasoshi Village and Staff and Students of SJPN Trust's HSIT, BCA college, PUC and Polytechnic, Nidasoshi.
No. of participants:	300
Activity In charge:	Shri. M. P. Yanagimath and Shri. S. S. Birade

Description of Activity: To create awareness about the energy conservation and Energy Efficiency, a rally was organized by Department of Electrical and Electronics Engineering in association with KREDL, Bangalore on 20/12/2019 from Hirasugar Institute of Technology campus to Nidasoshi village. The Rally was inaugurated by Shri.G.M.Patil, Secretary, SJPN Trust's Nidasoshi. The Principals and HOD's of all the sister concern institutes, nearly 100 staffs and 200 students of SJPN Trust's Hirasugar Institute of Technology, BCA college, Polytechnic, PU college and CBSE School have actively participated in rally. During rally, banner and play card holdings containing slogans about energy conservation were displayed and tips for energy conservation and energy efficiency pamphlets were distributed to rural community, staff and students.



Activity Photographs:




21/12/19
Event Coordinators


21/12/19
HOD
Dr. B. V. Madiggond
BE, ME, Ph.D.
Prof. & Head
Dept. of Electrical & Electronics Engg.
HIT NIDASOSHI-591 236

CERTIFICATE

ENERGY AUDIT

PROUDLY PRESENTED TO

**Hirasugar Institute of Technology,
Nidasoshi**

Our team of Environmental Engineers have analyzed Clean and Green Energy practices followed by the Institution.

THIS CERTIFICATE WAS AWARDED BY

**Environmental and Civil
Engineering Solutions**



**ENVIRONMENTAL & CIVIL
ENGINEERING SOLUTIONS**
ISO 9001: 2015, IEC 17025: 2017



SEEMA N. KAMBLE
DIRECTOR



NIKHIL N. KAMBLE
AUDITOR

AUDIT YEAR 2022-2023

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SEEMA N. KAMBLE
DIRECTOR



NIKHIL N. KAMBLE
AUDITOR

AUDIT YEAR 2022-2023

Hirasugar Institute of Technology,
Nidasoshi

Gender Audit Report 2022-2023



**ENVIRONMENTAL & CIVIL
ENGINEERING SOLUTIONS**

ISO 9001: 2015, IEC 17025: 2017



Preamble

Gender Audit of educational institutions is a process for organizational assessment and a tool for action planning from a gender perspective. It critically examines the capacity of institutions to ensure a 'safe and secure' ambience for women and girl students, faculty and administrative staff.

The participatory audit process helps to identify institutional strengths and challenges to integrating gender, as well as gender equity, in the institution's systems and operations and in programs and activities.

Gender audit encourages the stakeholders in an educational institution to engage in a dialogue and reflect about the strengths and gaps of the system vis-à-vis gender related issues.

According to an ILO Manifesto gender auditing helps institutions to focus on such areas as:

- Mainstreaming gender as a cross-cutting concern within the unit's objectives, programs and budget.
- Existing gender expertise and competence.
- Information and knowledge management on gender issues.
- Systems and instruments in use for accountability, evaluating and monitoring on gender equality.
- Staffing and human resources concerning balance between women and men, as well as gender-friendly policies.
- Organizational culture and its effects on gender equality

About the Institute

Hirasugar Institute of Technology, Nidasoshi was established in the year of 1996. Institute has huge area of 48.20 acres and has been serving the mankind in the field of Engineering and technology. The landscaped grounds of college are widely admired for their beauty. The most valuable investment any educational institution can make is “Nurturing Future Leaders”. With the continuous rise in expectation of essential leadership standards, the institute has torch bearers have taken a responsibility for this investment to nurture the NextGen leaders with a vision to bridge the existing skill gap. With a firm step forward to attain an academic excellence, several Centres of Excellence, computer labs, and industry-academia associations has been setup at the College in association with the top leaders. The College believes that its primary stakeholders are the students. All aspects of education focus on the core values of contributing to national development while fostering global competencies among students. The College admits students from all social milieus and empowers them through intensive mentoring and counselling to face the challenges of life and become responsible and sensitized citizens of the country. The institution came into existence in the year 1996 with the sole purpose of providing quality technical education in various disciplines of engineering. Since then the growth of the Institute has been guided by the proactive response to the fast changing world of technology.

The institute is approved by All India Council for Technical Education, New Delhi (AICTE, New Delhi) and is affiliated to Visvesvaraya Technological University, Belgaum (VTU, Belgaum).





Gender Ratio Students

Gender wise Details of Students in the College

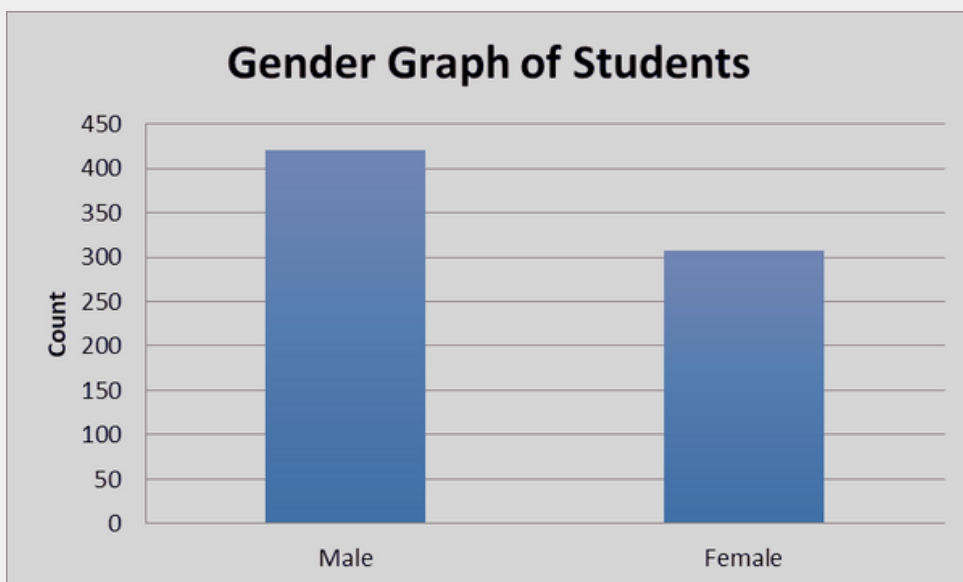
Year	Male Students	Female Students
2022-2023	420	307

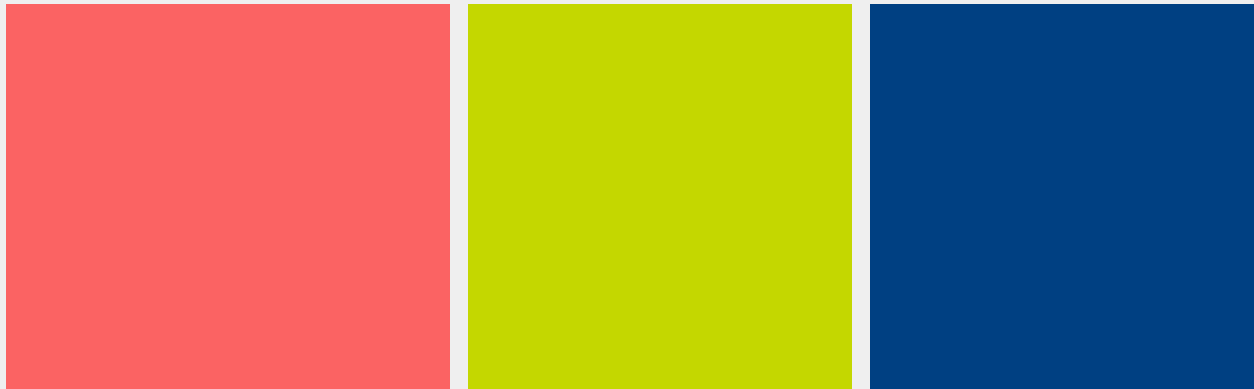
58

Percent Male Students

42

Percent Female Students





Gender Ratio Staff

Gender wise Details of Saff in the College

Year	Male Staff	Female Staff
2022-2023	126	10

93

Percent Male Staff

07

Percent Female Staff

