



Sinhgad Institutes

**SINHGAD TECHNICAL EDUCATION SOCIETY'S**  
**SINHGAD INSTITUTE OF TECHNOLOGY**

(Affiliated to Savitribai Phule Pune University, Pune & Approved by AICTE)

Gat No. 309/310, off Mumbai Pune Expressway Kusgaon (Bk), Lonavala Pune -410401  
website: sit.sinhgad.edu

## Criterion VII

### Institutional Values and Best Practices

#### 7.3 : Institutional distinctiveness:

Sinhgad Institute of Technology is located in lush green Sahyadri Range near Lonavala. Lush green campus and green cover of the campus, developed through continuous efforts make it stand tall among other institutes. Continuous efforts through various activities to increase Oxygen emission and reduce greenhouse gases made this campus Oxygen Park. The detailed efforts are mentioned in this document.

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## 1. Green Campus Initiatives

The Sinhgad Institute of Technology acknowledge the importance of; Eco-friendly campus, in order to protect the environment by making use of the available resources in a sustainable and responsible manner. The institute has plan to plant 10% more trees every year which resulted in availability of moreover 7500 well grown tree cover in campus. Institute has constituted green policy and implementation of it is strictly observed.

### 1. Implementation of Tree Plantation:

SIT Lonavala is well known for its greenery. We received the green campus award by AICTE. Today this campus has moreover 7500 well grown trees of various species. This count is increasing day by day. We conduct tree plantation activities on various occasions like,

- Independence day
- Republic day
- World environment day
- Foundation day of society
- Birthday Celebrations
- NSS day etc.

We have dedicated gardening team of campus to look after these activities of plantation and further nurturing of plants. At the end of every year, CO<sub>2</sub> absorption capacity is analyzed.

## 2. Green Campus Policy



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Gat No. 309/310, Kusgaon (BK.), Off Mumbai - Pune Express way, Lonavala, Dist Pune - 410 401.

**PROF. M. N. NAVALE**  
M E (Elect.) MIE, MBA  
**Founder President**

**DR. (MRS.) SUNANDA M. NAVALE**  
B A, MPM, Ph D  
**Founder Secretary**

**DR. M. S. GAIKWAD**  
M E, Ph D (Electronics Engg.)  
**Principal**

## GREEN CAMPUS POLICY

**1. Purpose :** To maintain an Eco-friendly campus.

**2. Scope:** This policy applies to the Sinhgad Institute of Technology Lonavala faculty staff, students, and visitors. We are encompassing all the activities conducted on the premises.

**3. Policy statement:** The Sinhgad Institute of Technology acknowledges the importance of an eco-friendly campus to protect the environment by using the available resources sustainably and responsibly.

**4. Important Terms:** Water Management, Waste Management, Energy Management, Solid Waste Management, Liquid Waste Management, E-Waste Management, Bio-medical Waste Management, Green Landscaping.

**5. Water Conservation and Management Policy:** The faculties and students will have the following responsibilities to comply with the institutional water conservation and management policy:

- Consume water from the water purifiers installed on each floor of the buildings and in the hostels.
- Should not waste water in the washrooms and wash basins.
- Close all the taps that are running.
- Use water sparingly after sports and games while washing hands and feet.
- Report any water leaks to the maintenance officer or HOD.
- Comply with any institutional policy regarding water management.
- Instead of buying water bottles, use a single bottle or flask to fill in the water, so that problem of plastic bottles is reduced.
- While going home, kindly pour water to the flower plants in the campus if you want to empty your bottles.
- Maintenance staff must keep an eye on the wastage of water.
- Ensure that the faculty staff, students and visitors are aware of this policy.
- Educate and remind students regarding the importance of water through awareness programs.
- Maintain a functional rainwater harvesting unit.



*Celebrating 25 Years* — of Academic Excellence —



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**6. Waste Management:** The faculties and students will have the following responsibilities to comply with institutional waste management policy.

- The institutional waste management policy is based on four philosophies. Namely
  - Reduce
  - Reuse
  - Recycle
  - Refuse
- The waste management policy encompasses the following four type of waste management
  - Solid Waste
  - Liquid Waste
  - E-Waste
  - Bio-Medical Waste

**7. Solid Waste Management:** The faculties and students will have the following responsibilities to comply with the Institutional solid waste management Policy.

- All the faculty, staff and students will strictly follow four policies: Reduce, Reuse, Recycle Refuse to comply with the Waste Management Policy.
- Through various bodies like NSS, MESA, Estate office, etc., the institute will focus on reducing waste generation and work towards the collection and proper disposal of waste.
- All the faculty, staff and students will dispose of the waste in the respective containers kept in the corridor according to the type of waste: Dry, Wet, Plastic etc.
- The helping staff will dispose /of the waste to the collection vehicle according to the regulations.
- Reduce plastic carry bags as much as possible.
- Lecturers should send the assignments online through Microsoft Teams wherever possible.
- Use both sides of paper for printing and writing assignments.
- Rough printouts should be taken on used one side papers.
- Use of Microsoft Teams platform and Whatsapp groups for communication in order to reduce use of paper.
- Use of Cloth bags instead of Plastic carry bags.

**8. Liquid Waste Management:**

- The waste treatment plant is installed on the campus where waste is recycled and supplied to the Lonavala city Corporation Sewage system. The maintenance officer is to see to the proper functioning of it.

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## 9. E-Waste Management:

- As E-waste causes damage to human health and hazard to the environment, the institution shall sale non-working electronic items like computers, printers, and batteries to E-Waste buyers.

**10. Energy Management Policy:** The faculties, students and management would have the following responsibilities to comply with the Energy Management Policy.

- Turn off the lights and computers when not in use.
- Switching on the generator on-demand only.
- Installation of LED bulbs wherever possible.
- Gradual change over fluorescent tube lights to LED Tube lights in the Institute.
- Step by step installation of Solar PV panels on rooftop of buildings.
- Installation of smart IOT based IOT motion sensors in corridor and classroom, to turn on and off lights, fans etc. as per the movement of occupants.

## 11. Bio-Medical Waste management:

- Women staff and students shall use the incinerator to dispose of the sanitary pads.
- Bio-Medical waste of any kind should be disposed in proper been.

## 12. Green Landscaping:

- Faculties and students should involve in tree plantation activities planned throughout the year.
- Institute plans to plant maximum trees every year through various occasions like republic day, Gandhi Jayanti, STES Foundation day, Birthdays, Corporate garden, etc.

**Date:** 01/12/2020



  
**Principal,**

Sinhgad Institute of technology  
Lonavala

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**3. Tree Plantation Activities**

**Activities in 2016**

| Sr.No.                            | Description       | Large Trees (NOS) | Rose Plant (Nos) | Flower Bed (Sq.Mt.) | Lawn (Sq.Mt.) | Reepers / Climbers (Nos) | Medium Sizes Plant (Nos) |
|-----------------------------------|-------------------|-------------------|------------------|---------------------|---------------|--------------------------|--------------------------|
| 1                                 | 26th January 2016 | 170.00            | 0.00             | 0.00                | 0.00          | 0.00                     | 0.00                     |
| 2                                 | 12th August 2016  | 150.00            | 0.00             | 0.00                | 0.00          | 0.00                     | 0.00                     |
| 3                                 | 15th August 2016  | 199.00            | 0.00             | 0.00                | 0.00          | 0.00                     | 0.00                     |
|                                   | <b>Total</b>      | <b>519.00</b>     | <b>0.00</b>      | <b>0.00</b>         | <b>0.00</b>   | <b>0.00</b>              | <b>0.00</b>              |
|                                   | Size of Pit       | (0.9x0.9)         | (0.3x0.3)        | 1                   | 1             | (0.3x0.3)                | (0.6x0.6)                |
| <b>Total area in Sq.Mt.</b>       |                   | <b>420.39</b>     | <b>0</b>         | <b>0</b>            | <b>0</b>      | <b>0</b>                 | <b>0</b>                 |
| <b>Gross Total Area in Sq.Mt.</b> |                   |                   |                  |                     |               |                          | <b>420.39</b>            |

**Activities in 2017-18**

| Sr.No.                            | Description       | Large Trees (NOS) | Rose Plant (Nos) | Flower Bed (Sq.Mt.) | Lawn (Sq.Mt.) | Reepers / Climbers (Nos) | Medium Sizes Plant (Nos) |
|-----------------------------------|-------------------|-------------------|------------------|---------------------|---------------|--------------------------|--------------------------|
| 1                                 | 26th January 2017 | 337.00            | 0.00             | 0.00                | 0.00          | 0.00                     | 0.00                     |
| 2                                 | 12th August 2017  | 336.00            | 0.00             | 0.00                | 0.00          | 0.00                     | 0.00                     |
| 3                                 | 15th August 2017  | 193.00            | 0.00             | 0.00                | 0.00          | 0.00                     | 0.00                     |
|                                   | <b>Total</b>      | <b>866.00</b>     | <b>0.00</b>      | <b>0.00</b>         | <b>0.00</b>   | <b>0.00</b>              | <b>0.00</b>              |
|                                   | Size of Pit       | (0.9x0.9)         | (0.3x0.3)        | 1                   | 1             | (0.3x0.3)                | (0.6x0.6)                |
| <b>Total area in Sq.Mt.</b>       |                   | <b>701.46</b>     | <b>0</b>         | <b>0</b>            | <b>0</b>      | <b>0</b>                 | <b>0</b>                 |
| <b>Gross Total Area in Sq.Mt.</b> |                   |                   |                  |                     |               |                          | <b>701.46</b>            |

**Activities in 2018-19**

| Sr.No.                            | Description       | Large Trees (NOS) | Rose Plant (Nos) | Flower Bed (Sq.Mt.) | Lawn (Sq.Mt.) | Reepers / Climbers (Nos) | Medium Sizes Plant (Nos) |
|-----------------------------------|-------------------|-------------------|------------------|---------------------|---------------|--------------------------|--------------------------|
| 1                                 | 26th January 2018 | 15.00             | 0.00             | 0.00                | 0.00          | 0.00                     | 0.00                     |
| 2                                 | 15th August 2018  | 16.00             | 0.00             | 0.00                | 0.00          | 0.00                     | 0.00                     |
|                                   | <b>Total</b>      | <b>31.00</b>      | <b>0.00</b>      | <b>0.00</b>         | <b>0.00</b>   | <b>0.00</b>              | <b>0.00</b>              |
|                                   | Size of Pit       | (0.9x0.9)         | (0.3x0.3)        | 1                   | 1             | (0.3x0.3)                | (0.6x0.6)                |
| <b>Total area in Sq.Mt.</b>       |                   | <b>25.11</b>      | <b>0</b>         | <b>0</b>            | <b>0</b>      | <b>0</b>                 | <b>0</b>                 |
| <b>Gross Total Area in Sq.Mt.</b> |                   |                   |                  |                     |               |                          | <b>25.11</b>             |



**Activities in 2019-20**

| Sr.No. | Description                       | Large Trees (NOS) | Rose Plant (Nos) | Flower Bed (Sq.Mt.) | Lawn (Sq.Mt.) | Reepers / Climbers (Nos) | Medium Sizes Plant (Nos) |
|--------|-----------------------------------|-------------------|------------------|---------------------|---------------|--------------------------|--------------------------|
| 1      | July 2019 CTC                     | 50.00             | 0.00             | 0.00                | 0.00          | 0.00                     | 0.00                     |
| 2      | July 2019 Birthday Celebration    | 78.00             | 0.00             | 0.00                | 0.00          | 0.00                     | 0.00                     |
| 3      | August 2019 STES Foundation day   | 92.00             | 0.00             | 0.00                | 0.00          | 0.00                     | 0.00                     |
| 4      | Dec-19                            | 400.00            | 0.00             | 0.00                | 0.00          | 0.00                     | 0.00                     |
|        |                                   |                   |                  |                     |               |                          |                          |
|        | <b>Total</b>                      | <b>620.00</b>     | <b>0.00</b>      | <b>0.00</b>         | <b>0.00</b>   | <b>0.00</b>              | <b>0.00</b>              |
|        | Size of Pit                       | (0.9x0.9)         | (0.3x0.3)        | 1                   | 1             | (0.3x0.3)                | (0.6x0.6)                |
|        | <b>Total area in Sq.Mt.</b>       | <b>502.2</b>      | <b>0</b>         | <b>0</b>            | <b>0</b>      | <b>0</b>                 | <b>0</b>                 |
|        | <b>Gross Total Area in Sq.Mt.</b> |                   |                  |                     |               |                          | <b>502.2</b>             |

**Activities in 2020-21**

| Sr.No. | Description                        | Large Trees (NOS) | Rose Plant (Nos) | Flower Bed (Sq.Mt.) | Lawn (Sq.Mt.) | Reepers / Climbers (Nos) | Medium Sizes Plant (Nos) |
|--------|------------------------------------|-------------------|------------------|---------------------|---------------|--------------------------|--------------------------|
| 1      | May 2020 STES Ixora Palnts         | 0.00              | 225.00           | 0.00                | 0.00          | 0.00                     | 0.00                     |
| 2      | May 2020 STES Rose Plants          | 0.00              | 75.00            | 0.00                | 0.00          | 0.00                     | 0.00                     |
| 3      | August 2020 STES Foundation day    | 25.00             | 0.00             | 0.00                | 0.00          | 0.00                     | 0.00                     |
| 4      | 26th january 2021 for republic day | 25.00             | 30.00            | 0.00                | 0.00          | 0.00                     | 7.00                     |
|        |                                    |                   |                  |                     |               |                          |                          |
|        | <b>Total</b>                       | <b>50.00</b>      | <b>330.00</b>    | <b>0.00</b>         | <b>0.00</b>   | <b>0.00</b>              | <b>7.00</b>              |
|        | Size of Pit                        | (0.9x0.9)         | (0.3x0.3)        | 1                   | 1             | (0.3x0.3)                | (0.6x0.6)                |
|        | <b>Total area in Sq.Mt.</b>        | <b>40.5</b>       | <b>29.7</b>      | <b>0</b>            | <b>0</b>      | <b>0</b>                 | <b>2.52</b>              |
|        | <b>Gross Total Area in Sq.Mt.</b>  |                   |                  |                     |               |                          | <b>72.72</b>             |

**4. Sample Photographs and notices**





Date:- 08.08.2019

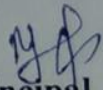
### Notice

All students are hereby informed that Sinhgad Institute of Technology, Lonavala has organized Tree Plantation programme on occasion of STES Foundation Day, kindly join for the same and save Green Campus.

Venue: STES Campus Lonavala

Date: 12/08/2019

Time: 9.00 a.m. To 4.00 p.m.

  
Principal  
SIT, Lonavala

PRINCIPAL  
SINHGAD INSTITUTE OF TECHNOLOGY  
Kusgaon (Bk.), Lonavala-410401





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*Lush Green SIT Lonavala Campus*



## 2. Green Audit

While transforming ourselves from regional campus to national level campus it is the responsibility of such campus to face the global future challenges and try to find out possible solutions for them. It is social and environmental responsibility of Institutes, Universities, National and International Organizations to respond positively for various global issues at local level and should percolate the generated knowledge in to the society. Global warming and climate change are current environmental issues need to be addressed scientifically and efficiently. As SIT campus is provided with skillful human resource supported by analytical infrastructure, it is our duty to bring such ideas in practice. While understanding the call of time our team has decided to enumerate the green cover of campus and quantify the carbon sequestration of existing tree population.

### 1. Objectives

1. To study woody green cover of the campus.
2. To study species diversity of woody vegetation in the campus.
3. To understand biomass and carbon stock accumulated by woody vegetation in the campus.
4. To explore carbon sequestration potential of woody vegetation in the campus.
5. To explore potential of woody vegetation of the campus as an oxygen source.
6. To measure canopy cover of the trees on the campus.

### 2. Study Area

SIT Lonavala campus is situated on hills of Sahyadri range east of Lonavala city Maharashtra, at 18.734103 latitude, 73.427735 longitudes. SIT Lonavala covers an area of about 200 acres. The major area of the campus is covered with vegetation.

### 3. Data Analysis

All the collected data is tabulated and analyzed with the help of MS- Excel spreadsheets and the findings are extracted by using various factors given by Intergovernmental Panel on Climate Change (IPCC). Following parameters are measured for analysis purpose.

- Measurement of circumference of the tree:
- Height measurement:
- Above Ground Biomass (ABG) of tree:
- Estimation of carbon:
- Determination of weight of carbon dioxide (CO<sub>2</sub>) sequestered in the tree:
- Canopy cover:

### 4. Findings

Following are the findings of green audit:-

#### • Carbon Sequestration:

Carbon sequestration is long-term storage of carbon dioxide or other forms of carbon to avoid climate change. It has been considered as a way to slow the atmospheric and marine accumulation of greenhouse gases, which are released by burning fossil fuels. Vegetation carbon pool having the potential of 560 Pg (Pg: Pentagram= billion ton) of carbon storage globally. In the current study the focus is given on the

assessment of existing carbon stock stored in SIT Lonavala campus in the form of woody vegetation by enumerating every tree species. A single tree consumes 0.0218 tons of CO<sub>2</sub> approximately annually, consequently, as the campus possesses 7500 mature woody plants, 138.78 tons of CO<sub>2</sub> is consumed yearly by all woody vegetation on the campus.

- **Oxygen released**

Woody vegetation in SIT Lonavala campus release 416.34 tons of oxygen in a year. Thus, it is supposed to release 416.34 tons of oxygen annually.

A single tree supports oxygen demand of two people for their life. Thus, 7500 woody trees on the SIT Lonavala campus are supporting 15000 people on and around the campus.

- **Canopy cover**

The vertical projection of plant foliage onto a horizontal surface is called as Canopy cover. In the other word, the canopy cover is the per cent forest area occupied by the vertical projection of tree crowns. Furthermore the measure of forest cover is useful to analyse the plant growth and survival. Hence, for determining the nature of the vegetation it is an important ecological parameter of forest ecosystem for its relationship with species richness, wildlife habitat and behavior. Forest canopy structure regulates radiation interception through the canopy, affects the canopy microclimate, and consequently influences the energy, water, and carbon fluxes between soil, vegetation and atmosphere through interactions with leaf photosynthesis. The total canopy area calculated around the campus is 78 acres. The total canopy cover area on the campus is 39 % and is more i. e. 33% forest cover decided for country or state.

- **Sample Photographs and Audit certificate**



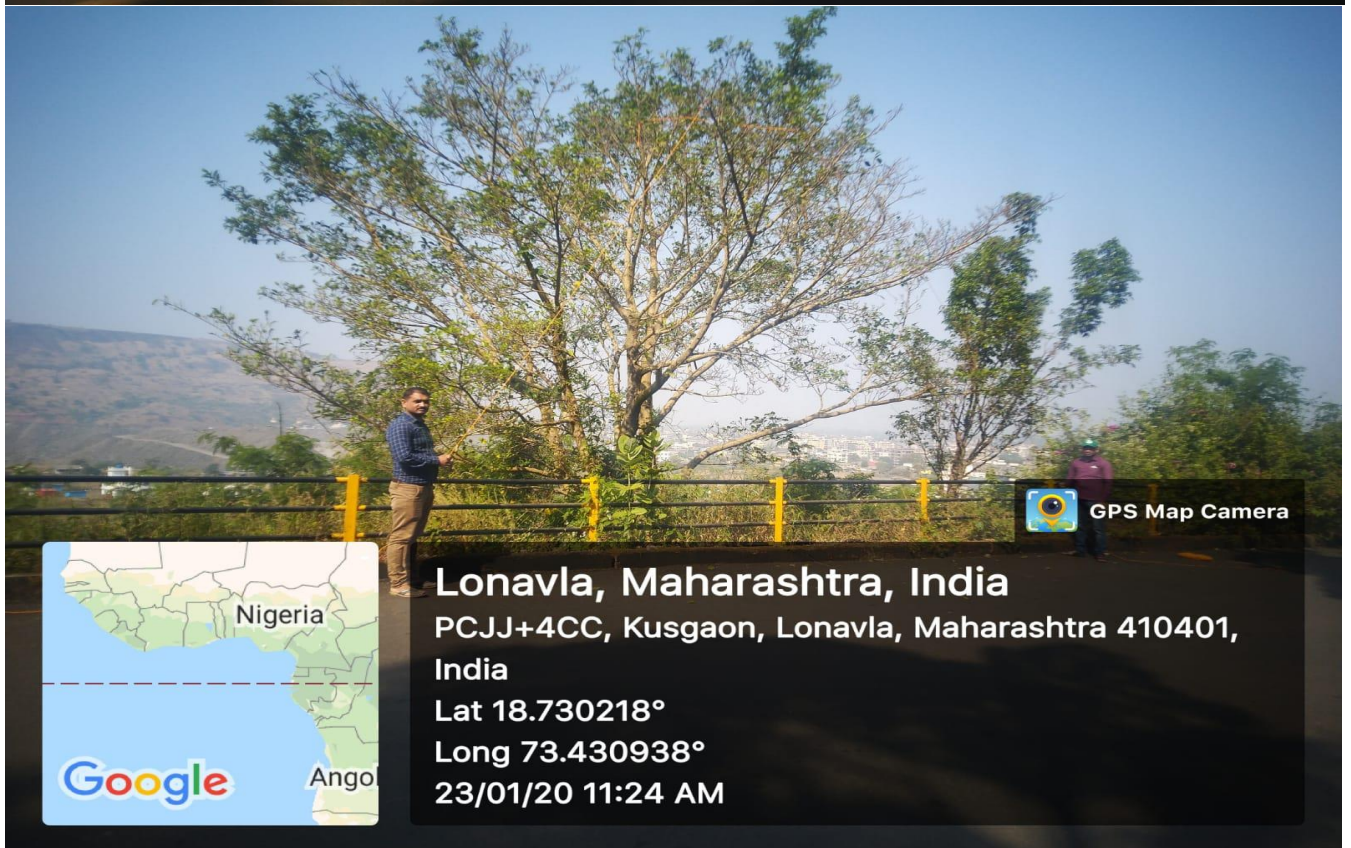


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**SHIVAJI UNIVERSITY, KOLHAPUR**

**Department of Technology**

Ph.No.0231-2609424

E-mail-director.tech@unishivaji.ac.in

No.DOT/Consultancy & Testing Cell/

Date: 12/06/2020

## **CERTIFICATE**

This is to certify that the Department of Environmental Science & Technology, Shivaji University, Kolhapur has conducted detailed "Green Audit" of "Sinhgad Technical Education Society's Sinhgad Institute of Technology, Gat No. 309/310, Kusgaon (Bk), Off Mumbai-Pune Expressway, Lonavala. Tal Maval, Dist. Pune-410401" during the academic year 2019-20. The green audit was conducted in accordance with the applicable standards prescribed by Central Pollution Control Board, New Delhi and Ministry of Environment, Forest and Climate Change, New Delhi. The audit involves Water, Waste-water, Energy, Air, Green Inventory, Solid Waste etc. and gives an 'Environmental Management Plan', which the institute can follow to minimize impact on the institutional working framework. In an opinion and to the best of our information and according to the information given to us, said green audit gives a true and fair view in conformity with environmental auditing principles accepted in India.



  
(E. S.M. Bhosale)  
Co-ordinator,

Environmental Science & Tech.  
Department of Technology,  
Shivaji University, Kolhapur.



### 3. Carbon foot prints:

As the SIT Lonavala campus considered as institutional organization, the various energy resources like electricity, fuels, Liquefied petroleum gas (LPG) are used. It is necessary to calculate the carbon footprint of the campus to upgrade the Clean Developmental Mechanism (CDM) in various processes. All the data from the various sources is collected from all the sectors where energy resources are used. The collected data is calculated by using standard emission factors.

- **Electricity carbon footprint:**

In the campus, electricity is used for various purposes like residential, office use and in the laboratories. The total electricity used in the campus is around 4000 MWh/annum which (approximately) liberates 12240000 kg of CO<sub>2</sub> per year.

The solar panels are installed on the roof of SIT building 2, produces 12 MWh electricity per year. The electricity produced from solar panels saves 18615 kg of CO<sub>2</sub> per year.

- **Liquefied petroleum gas (LPG) footprint:**

The Liquefied petroleum gas (LPGs) is used in the Science laboratories, Hostels, Guest house and staff quarters on the campus. The total LPGs consumed is 3,200 kg/annum and is responsible for the liberation of 9600 kg of CO<sub>2</sub>.

- **Vehicle footprint:**

The vehicles are the source of CO<sub>2</sub> and other greenhouse gases. The number of vehicles passed through the campus daily, which emits the CO<sub>2</sub> in the atmosphere which add tons of CO<sub>2</sub> as vehicle footprint. The vehicle footprint of Campus is 20500 kg of CO<sub>2</sub> per year approximately.

First Friday of every month is observed as 'No Vehicle Day'. The vehicles are not allowed in the campus to reduce the emission of CO<sub>2</sub>. On this 'No Vehicle Day', campus reduces the 72.20 kg of CO<sub>2</sub> per year of four wheelers and 34.27 kg of CO<sub>2</sub> per year of two wheeler footprint. The total 106.47 kg of CO<sub>2</sub> per year footprint reduced during No Vehicle Days.

- **Paper footprint:**

The papers are used in the institution for various purposes like examination answer sheets, circulars, notices, office work etc. The papers are responsible for the emission of CO<sub>2</sub>. The Campus uses 1,650 reams of A4 papers which emits the 3.43 tons of CO<sub>2</sub>. In the campus various departments follow paperless methods of communication to reduce the paper footprint. The various sections on the campus save around 13,48,914 papers per years i.e. 2,697 reams. The paperless work reduces approximately 5.61 tons of CO<sub>2</sub> approximately. The total 2.80 tons of biomass is saved by paperless communication i.e. green computing.

- **Total footprint of the campus:**

The total footprint is the addition of all the footprints and it is expressed as tons of CO<sub>2</sub> per year. The total footprint of the campus is 12282.53 tons of CO<sub>2</sub> per year approximately.

As SIT is following the Clean Developmental Mechanism to reduce the emission of CO<sub>2</sub> and greenhouse emission by using solar panels for electricity generation, paperless work and No Vehicle Day, it reduces of 22.51 tons of CO<sub>2</sub> per year approximately.

- **Conclusion:**

India's CO<sub>2</sub> emission is increased by an estimated 4.6 % in 2017, despite a turbulent year for its



economy. The carbon footprint of nation is measured per person; India's emissions are still very low – at only 1.8 tons of CO<sub>2</sub> per capita- which is much lower than the world average of 4.2 tons. But those emissions have been increasing steadily, with an average growth rate of 6% over the past decade. The educational institutes are the organizations which are having large areas that consume high quantities of electricity and LPGs for many purposes. The SIT Lonavala Campus emits 12282.53 tons of CO<sub>2</sub> per year approximately. The present Clean Development Mechanism (CDM) or practices reduces the 22.51 tons CO<sub>2</sub> per year approximately.

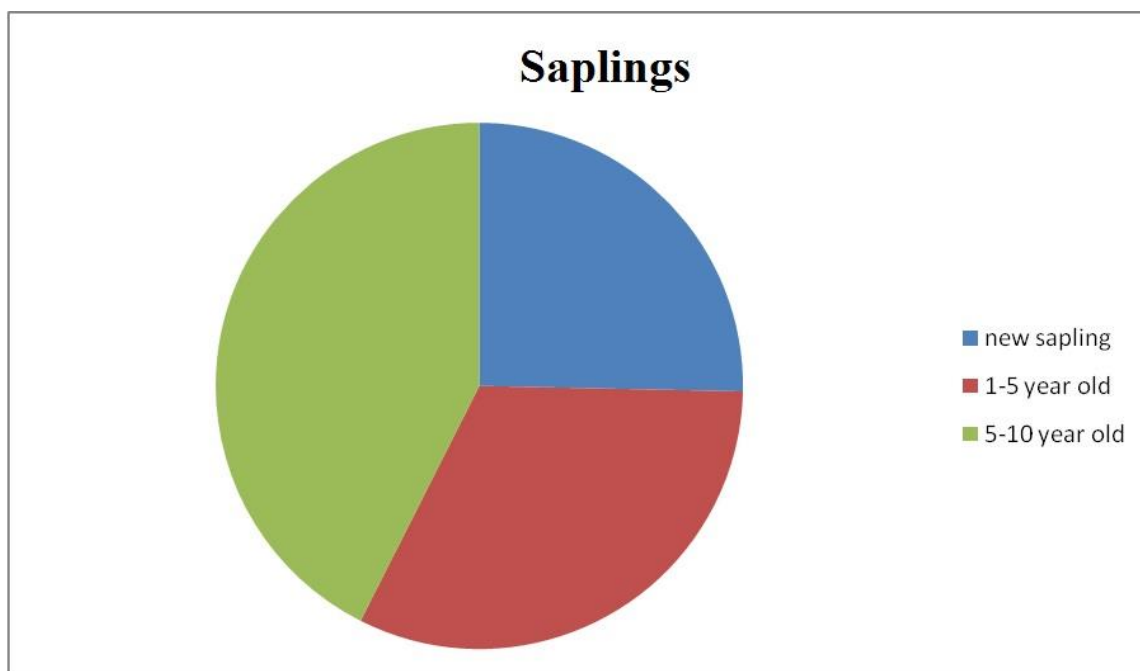
The SIT campus covers total 200 acres area which is having the green cover of 75000 mature woody trees which capture 138.78 tons of CO<sub>2</sub> per year.

• **Sample calculations:**

**CO<sub>2</sub> (kg/year) sequestration from trees planted in campus**

| Sr.No.       | Species        | Number of trees including new plantation | Average CO <sub>2</sub> (kg/year) sequestration per plant | Total CO <sub>2</sub> (kg/year) sequestration |
|--------------|----------------|--|---|---|
| 1            | Ficus benamina | 1850                                     | 21  | 38850   |
| 2            | Gulmohar       | 604                                      | 23  | 13892   |
| 3            | Pentaforum     | 441                                      | 21  | 9261  |
| 4            | Spathodea      | 307                                      | 19  | 5833  |
| 5            | Alstonia       | 919                                      | 22  | 20218   |
| 6            | Kadamba        | 257                                      | 22  | 5654  |
| 7            | Peepal         | 150                                      | 23  | 3450  |
| 8            | Mahogany       | 158                                      | 15  | 2370  |
| 9            | Silver oak     | 352                                      | 24  | 8448  |
| 10           | Badam          | 665                                      | 14  | 9310  |
| 11           | Kanchan        | 418                                      | 16  | 6688  |
| 12           | Tamarind       | 4  | 19  | 76  |
| 13           | Mango          | 95                                       | 23  | 2185  |
| 14           | Son chafa      | 12                                       | 17  | 204   |
| 15           | Teakwood       | 814                                      | 25  | 20350   |
| 16           | Shisham        | 62                                       | 20  | 1240  |
| 17           | Arjun          | 15                                       | 21  | 315   |
| 18           | Banyan         | 10                                       | 25  | 250   |
| 19           | Bakul          | 28                                       | 18  | 504   |
| 20           | Red Sandal     | 3  | 19  | 57  |
| 21           | Bael           | 12                                       | 21  | 252   |
| 22           | Amla           | 42                                       | 15  | 630   |
| 23           | Karanja        | 7  | 18  | 126   |
| 24           | Umber          | 99                                       | 22  | 2178  |
| 25           | Neem tree      | 15                                       | 10  | 150   |
| 26           | Bamboo         | 78                                       | 20  | 1560  |
| <b>Total</b> |                |  |   | 154051  |





**Sample averaging:** number of trees as per the health and age

Average CO<sub>2</sub> (kg/year) sequestration Ficus Benjamin:

Newly planted healthy sapling: 5.9 kg/year

5 year old tree: 15kg/year

10 year old tree : 25 kg/year

$$\text{Average CO}_2 \text{ sequestration rate} = (798 \times 25 + 602 \times 15 + 475 \times 5) / (798 + 602 + 475)$$

$$= 16.72 = 17 \text{ kg/year/tree}$$

**CO<sub>2</sub> emission from various sources**

| Sr. No.      | Source of pollution | Quantity | Average Emission of CO <sub>2</sub> per from unit quantity per year | Total emission of CO <sub>2</sub> per year |
|--------------|---------------------|----------|---|--|
| 1            | Two wheeler         | 189      | 70  | 13230                                      |
| 2            | Four wheeler        | 41       | 110   | 4510                                       |
| 3            | Heavy vehicle       | 7        | 400   | 2800                                       |
| 4            | Household gas       | 280      | 7   | 1960                                       |
| 5            | Mess gas            | 200      | 10  | 2000                                       |
| <b>Total</b> |                     |          |   | <b>24500</b>                               |



#### 4. Energy Audit

Electrical Energy requirement for all the buildings in the campus is satisfied from two sources. The main source is a 22kV express feeder of Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL). The support of solar plant of 10 kW capacity is supplying load of SIT Building no. 2. Major components of electricity use are Institutes, mess and canteens, Hostels, Staff quarters and miscellaneous. Electricity load in the institutes includes bulbs of 14 kW, tube lights of 175 kW, fans of 138 kW, computer machines 269 kW, printers of 168 kW, projectors of 22kW, aqua-guards 1 kW, coolers 17 kW, television sets of 11.6 kW, AC of 114 kW, Mixers of 1.5 kW, oven 30 kW, refrigeration 10 kW etc. Total connected load is around 1080 kW. Active load is 562 kW. There are total of 27 buildings of hostels. The connected load of these buildings is around 2974 kW. For staff quarters connected load counted as 1810 kW whereas for mess, canteens, pumps together form load of 366 kW. It is observed that out of total connected load 53% load is actively using the electricity. Monthly consumption of the campus is varying from 2.5 lakhs to 5 lakhs units throughout the year.

#### **Energy conservation practices implemented at STES Lonavala campus:**

The administration of STES Lonavala is very keen on saving electricity and fuel which is been used on the campus. The campus has implemented some unique ideas like “No Vehicle Day”, electrical vehicle, use of LED lights and installation of Solar panels in college and campus. The various departments have conducted energy conservation awareness programs, motivation of students, staff and faculty to use public vehicles and awareness programs like pollution control is conducted by NSS.

Following are some of the practices followed by SIT on the campus to conserve energy and fuel.

- **No Vehicle Day:**

The concept of “No Vehicle Day” is to reduce emission of CO<sub>2</sub> by minimum use of vehicles on the campus. On the first Friday of every month “No Vehicle Day” is observed on the campus since 2015. During this No vehicle Day the vehicles of student, staff, faculty and visitors are not allowed to move in the institute and on the campus. Only essential service vehicles are allowed.

- **Use of Electrical vehicle:**

This is another initiative taken by institute to save fuel as well as save campus environment. The institute has electric vehicle which is used for internal use.

- **Solar electricity generation-**

SIT has purchased and installed 10 KW Solar power plants for generation of electricity on the terrace of SIT 2 building. There is ample scope to generate solar electricity on the campus.

- **Use of LED lights**

With the time SIT has taken a policy decision to replace all florescent, CFL bulbs, sodium bulbs, and tubes by LED bulbs and tubes. These LED bulbs and tube lights will reduce consumption of electricity.

- **Energy Conservation Programs**

The energy conservation programs are conducted in SIT through bodies like NSS, IEE, ISHRAE, CCC, etc. The electricity week is also observed in the institute.

- **Energy Audit Sample Photographs Notices News**



Sinhgad Institutes

# SINHGAD TECHNICAL EDUCATION SOCIETY'S SINHGAD INSTITUTE OF TECHNOLOGY

(Affiliated to Savitribai Phule Pune University, Pune & Approved by AICTE)

Gat No. 309/310, off Mumbai Pune Expressway Kusgaon (Bk), Lonavala Pune -410401



Sinhgad Institutes

## Sinhgad Technical Education Society's Lonavala Campus

Gat No. 309/310, Kusgaon (Bk), Off Mumbai -Pune, Expressway.

Lonavala, Pune, 410401, Website : [www.sinhgad.edu](http://www.sinhgad.edu)

## ENERGY AUDIT

To ,  
The campus Director  
Sinhgad Technical Education society,  
Kusgaon BK. Lonavala.

Subject:- Internal energy Audit report of the STES campus Kusgaon Bk. Lonavala for the period from 01-12-2019 to 31/12/2019.

### General Information:-

1. Period covered during audit: - 01-01-2019 to 31-12-2019.
2. Period during which audit conducted :- 01-12-2019 to 31-12-2019
3. Audit conducted by:- Shri. Ajay Pophale (5years industrial and electricity board experience)
4. Office bearers during the period of Audit:-

| Sr. No. | Name of the Staff Member | Designation         | Period                   |
|---------|--------------------------|---------------------|--------------------------|
| 1.      | Dr. M.S. Gaikwad         | Campus Director     | 01-12-2019 to 31-12-2019 |
| 2.      | Mr. Ganesh Thombre       | Electrical Engineer | 01-12-2019 to 31-12-2019 |

### Part-I

#### Part-1

#### INSTITUTES in the Campus:-

There are 08 institutes in the campus as follows:-

1. Sinhgad Institute of Technology Lonavala
2. Smt. Kashibai Navale Sinhgad institute of Technology, Lonavala.
3. Sinhgad Institute of Business Administration and computer Applications, Lonavala.
4. Sinhgad Public School, Lonavala.
5. Sinhgad Institute of Pharmaceutical Sciences, Lonavala.
6. Sinhgad institute of Hotel Management and catering technology, Lonavala.
7. Nivrutti Baba Navale College of commerce, Lonavala.
8. Smt. Kashibai Navale College of Education and Technology Lonavala.

During the audit following points noted which causes to wastage of electrical energy:-

1. The passage lights available at each floor of the buildings are in switch ON condition when there is no availability of single personnel in the departments. The reason behind this is observed that, the respective person whom switching ON this lights not looking towards the necessity of lights and directly switching off at the time of closing of offices.
2. The computers provided at different labs are remains in the switch ON condition even though the practical's of the respective labs getting over and the computers are getting shut down



directly by switching Off the main supply through stabilizers which leads to wastage of energy as well as causes software problems the computers.

**Remedies:-** The campus authorities are requested to make provision to use of passage light in efficient way like provision for the use of alternate lights in the passage or replacement of the FL with Led lights and lab attendant should be instructed to shut down all computers manually once practical over's.

#### Part-2

The renewable energy source PV solar power generating plant are installed on the three institute building having capacity of the 10Kwp each. The solar PV generation plant installed at three institute buildings having capacity of the 10Kwp each can carry 15% of the electrical load requirement of building, as the electrical load of this buildings is something around 100 to 110kw each.

Suggestion:- The capacity of the Solar power generation can be increased as the surface area required for the installation of the PV panels is tremendously available at the all institute buildings.

#### Part-II

**Hostel Buildings:** - There are 29 hostel buildings available in the campus out of which 10nos. building having solar water heater for water heating purpose and at the remaining hostels geysers are used for the water heating purpose.

During the audit following points noted which causes to wastage of electrical energy:-

1. The solar water heater installed at different hostel buildings are not getting properly used because the electric heating coils installed in water heater for the purpose of the heating of the water in rainy days as sunlight is not available but the coils are remained ON for long time which heats the water at very high temperature which affects plumbing parts also.
2. Students are keeping room lights in ON condition when they are leaving for the classes.

**Remedies:-** The timing of the solar water heating by the use of electric coil should be kept as per the availability of sunlight that is the electric heating coil schedule must be done according to season and should get strictly followed. The lights the hostel rooms should get switched OFF by students itself therefore the hostel attendant should take care of this and regularly instruct student to do the same.

#### Part-III

##### **Sewage plant and water supply plants:-**

During the audit following points noted which causes to wastage of electrical energy:-

1. The sewage treatment plant pumps are getting used in the peak hours of the day of electricity uses.
2. Water supply plant pumps are remaining in the ON condition even though water tank getting empty.

**Remedies:** - The sewage plants pump can be used in the off load hours which gives benefits in the form of TOD incentives in electricity bills. The pumps installed for the water supply purpose should be installed with the provision of the water level detector which helps cut OFF the supply when water tank getting empty.



Sinhgad Institutes

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**Part-IV**

**Security lights:** - There are 284 street lights and security lights in campus having capacity of 150 Watt and 70Watts each.

During the audit following points noted which causes to wastage of electrical energy:-

1. The street lights and security lights are getting turned ON when day light is available.
2. The security light lights installed on the building for the purpose of having lights in the plumbing operational area are remaining ON fro whole night.

**Remedies:-** The timing of the street light should be fixed according to availability of daylight and street lights and security light should get turned ON and OFF accordingly. The security lights installed on the buildings should get turned OFF once the plumbing work finished in that lights catchment area.

**Part-V**

**Sports Complex building:-** The sports complex building having multipurpose indoor game facility is utilizing fully LED light fixtures having capacity of 6.5KW. From the performance of these building lighting fixtures it is observed that LED can be implemented in the campus for the other building also.

**Part-VI**

**Electricity consumption of the campus and per capita consumption:** - For the FY-2018-19 it is observed that the campus having something around 28 to 30Lac units consumption per year or 2.5 Lac Kwh per month. During the audit period it is observed that there are 3500 students are living in the campus therefore per capita consumption is something around 700 to 800kwh per year.

**Part-VII**

The replies to the internal Audit Report shall be given within the 30 days with the implementation of suggestions and reasons for the not implementing suggested things.



(Dr. M.S. Gaikwad)

Campus Director

STES, Lonavala, Pune.

**CAMPUS DIRECTOR**  
**STES, LONAVALA**

**Copy To:-**

1. Principal, Sinhgad Institute of Technology Lonavala
2. Principal, Smt. Kashibai Navale Sinhgad institute of Technology, Lonavala.
3. Director, Sinhgad Institute of Business Administration and computer Applications, Lonavala.
4. Principal, Sinhgad Public School, Lonavala.
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7. Principal, Nivrutti Baba Navale College of commerce, Loanavala.
8. Principal, Smt. Kashibai Navale College of Education and Technology Loanavla.

**Prof. M. N. Navale**  
M.E. (ELECT.) MIE., MBA.  
**Founder President**

**Dr. (Mrs.) Sunanda M. Navale**  
B.A., M.P.M., Ph.D.  
**Founder Secretary**

**Dr. M. S. Gaikwad**  
M.E., Ph.D (Electronics Engg.)  
**Campus Director**

STES/2021-22/47

Date: 04/01/2022

## Circular No Vehicle Day

All the Students and staff of STES Lonavala campus are hereby informed that our Lonavala Campus is implementing **NO VEHICLE DAY** on **FIRST FRIDAY OF EVERY MONTH** to work towards clean and green campus as a small step against global warming. Code of conduct during No Vehicle Day is given below:

1. All the Students and Staff of the society should avoid use of any kind of IC Engine Vehicles in campus premises.
2. Prefer public transport/ vehicle-sharing outside campus.
3. Use of Bicycle, tandem cycle or electric vehicle can be done.
4. Emergency vehicles, physically handicapped vehicles are exempted..
5. Faculties and students coming from outside campus should park their vehicles near Main Gate at parking provided.



(Dr. M. S. Gaikwad)

Campus Director STES Lonavala campus

Copies To,

- 1) Heads of all the institute (All institutes of campus)
- 2) Security Head
- 3) Hostel office (hostels)
- 4) Estate office (staff quarters)



Sinhgad Institutes

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## सिंहगड इन्स्टिट्यूटमध्ये 'वाहन विरहित दिवस'

लोणावळा, दि. १३ (वार्ताहर)  
- सिंहगड इन्स्टिट्यूटच्या लोणावळा संकुलात वाहन विरहित दिन (नो व्हेहिकल डे) साजरा करण्यात आला. त्यामुळे सुमारे ४६ लिटर इंधनची बचत झाली.

सिंहगड संकुल लोणावळा येथे प्रत्येक महिन्याच्या पहिल्या शुक्रवारी वाहन विरहित दिन साजरा केला जातो. हरित संकुल, स्वच्छ संकुल या उपक्रमअंतर्गत जागतिक तापमान वाढी विरोधात छोटासा प्रयत्न म्हणून हा उपक्रम साजरा केला जातो. वाहन विरहित दिनामुळे संकुलात होणारे हवेचे व आवाजाचे प्रदूषण टाळले जाईल. तसेच इंधन बचतीसोबतच संकुलामध्ये पायी फिरल्याने आरोग्य चांगले राहील. एका दिवसाच्या वाहन विरहित दिवसामुळे संकुलात सुमारे ३५०

दुचाकी व ३८ चारचाकी व चार अवजड वाहनांचा संकुलामधील वापर टाळण्यात आला. यामध्ये जवळपास ४६ लिटर इंधन बचत झाली. या उपक्रमामुळे १०६ किलो कार्बन डायऑक्साईड उत्सर्जित होण्यापासून वाचला. सिंहगड लोणावळा हरित संकुल स्वच्छ संकुल या उपक्रमअंतर्गत वृक्ष लागवड, रेन मारथोन, जल संवर्धन, घन कचरा प्रक्रिया असे अनेक उपक्रम राबवले जातात. या सर्व प्रयत्नांमुळे लोणावळा संकुलास २०१९ वर्षाचा देश पातळीवरचा अखिल भारतीय तंत्रशिक्षण परिषदेचा प्रतिष्ठित 'ग्रीन कॅम्पस अवार्ड' मिळालेला आहे. सिंहगड लोणावळा संकुल संचालक डॉ. एम. एस. गायकवाड यांच्या मार्गदर्शनखाली हा उपक्रम राबवण्यात येत आहे.

प्रभात

Fri, 14 January 2022

<https://epaper.eprabhat.net/c/65>




The news published in daily "Prabhat" dated 14 jan 2022 in Devnagari.

The highlights of the news are:

- "No Vehicle Day" is celebrated by Sinhgad Institute Institute of Technology, Lonavala first Friday of every month
- Around 388 vehicles at halt on the day which resulted in saving of 46 litres petroleum.
- Avoided emission of 106 kg CO<sub>2</sub>

Document in Regional Language  
Translated to English



  
Dr. M. S. GAIKWAD  
PRINCIPAL  
Sinhgad Institute Of Technology, Lonavala





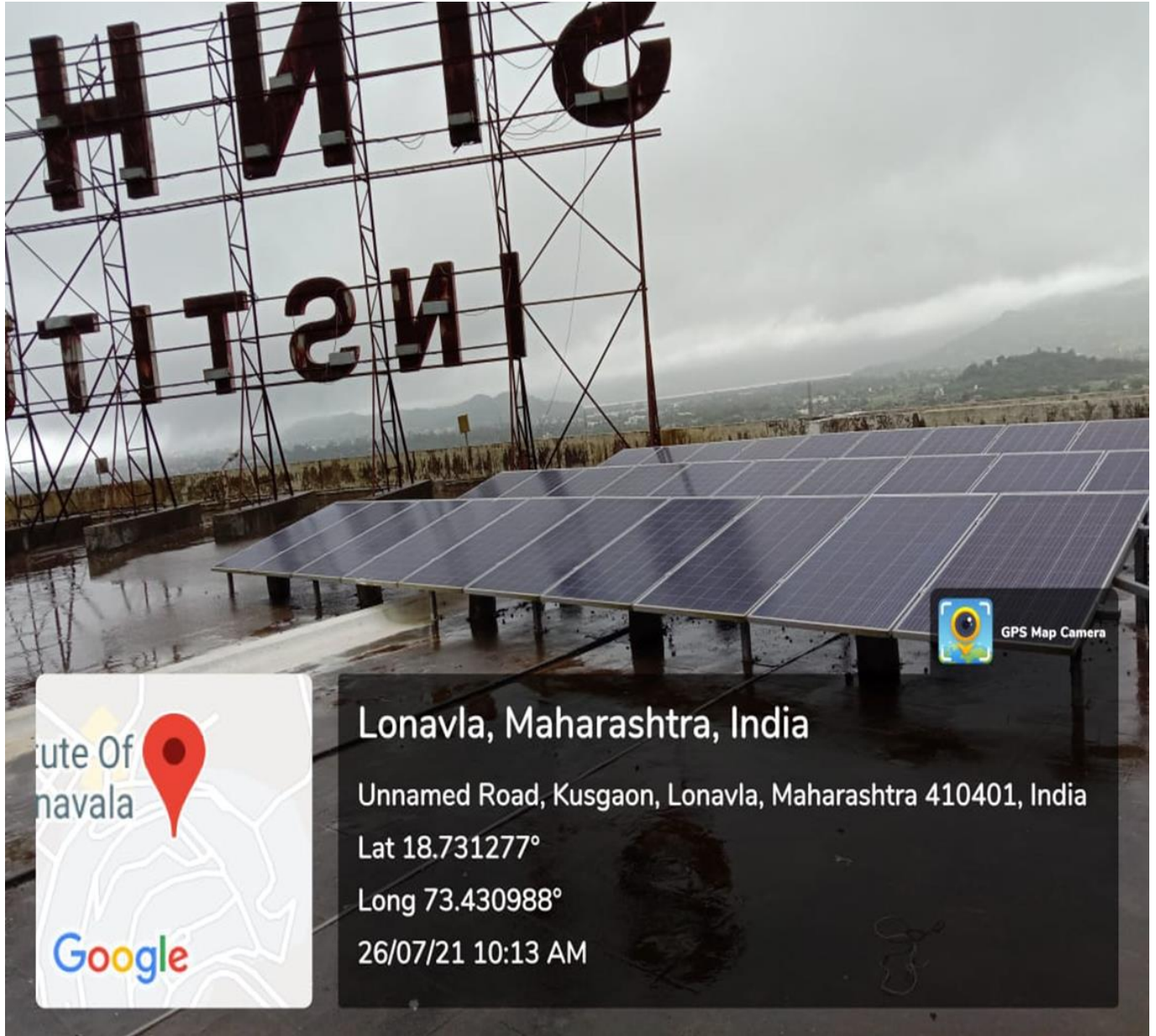
Sinhgad Institutes

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10 kW Solar Powerplant Photo and tax invoice





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### Tax Invoice

|  |  |                       |                       |             |  |
|--|--|-----------------------|-----------------------|-------------|--|
| <b>GK Energy Marketers Pvt Ltd</b><br>FLAT NO.350, BLDG NO.25 L.B.S. MAIN ROAD<br>LOKMANYA NAGAR, NAVI PETH<br>NEAR DANDEKA BRIDGE CIRCLE<br>PUNE - 411 030<br>GSTIN/UIN: 27AADCG3379A1ZT<br>State Name : Maharashtra, Code : 27<br>CIN: U74900PN2008PTC132926<br>E-Mail : office@energymarketers.in |  | Invoice No.           | e-Way Bill No.        | Dated       |  |
|  |  | PNGK/18-19/024        |                       | 23-Oct-2018 |  |
| <b>Buyer</b><br><b>SINHGAD INSTITUTE OF TECHNOLOGY</b><br>GAT NO- 309/310,KUSGAON (BK),<br>OFF. MUMBAI-PUNE EXPRESS WAY,<br>LONAVALA, PUNE-410401<br>State Name : Maharashtra, Code : 27   |  | Delivery Note         | Mode/Terms of Payment |             |  |
|  |  | Supplier's Ref.       | Other Reference(s)    |             |  |
|  |  | Buyer's Order No.     | Dated                 |             |  |
|  |  | SIT/PO/2017-18        | 22-Dec-2017           |             |  |
|  |  | Despatch Document No. | Delivery Note Date    |             |  |
|  |  | Despatched through:   | Destination           |             |  |
|  |  | Terms of Delivery     |                       |             |  |

| Sl No. | Description of Goods   | HSN/SAC  | Quantity  | Rate      | per | Disc. % | Amount        |
|--------|--|----------|-----------|-----------|-----|---------|---------------|
| 1      | SOLAR ROOFTOP SPV POWER PLANT-10KWP QIP<br>(GK ENERGY MARKETERS PVT LTD) | 85437092 | 10.00 KWP | 61,904.76 | KWP |         | 6,19,047.62   |
|        | Output CGST MH 2.50%   |          |           | 2.50 %    |     |         | 15,476.19     |
|        | Output SGST MH 2.50%   |          |           | 2.50 %    |     |         | 15,476.19     |
| Total  |  |          | 10.00 KWP |           |     |         | ₹ 6,50,000.00 |

Amount Chargeable (in words) E. & O.E  
**Indian Rupees Six Lakh Fifty Thousand Only**

| HSN/SAC  | Taxable Value | Central Tax |           | State Tax |           | Total Tax Amount |
|----------|---------------|-------------|-----------|-----------|-----------|------------------|
|          |               | Rate        | Amount    | Rate      | Amount    |                  |
| 85437092 | 6,19,047.62   | 2.50%       | 15,476.19 | 2.50%     | 15,476.19 | 30,952.38        |
| Total    |               |             | 15,476.19 |           | 15,476.19 | 30,952.38        |

Tax Amount (in words) : **Indian Rupees Thirty Thousand Nine Hundred Fifty Two and Thirty Eight paise Only**

Company's VAT TIN : 27720808726V  
 Company's CST No. : 27720808726C  
 Company's Service Tax No. : AADCG3379AST001  
 Company's PAN : AADCG3379A

Declaration \_\_\_\_\_ for GK Energy Marketers Pvt Ltd





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Solar Water heaters





## 5. Waste Management

Solid waste generation and management is a burning issue. Unscientific handling of solid waste can create threats to everyone. The solid waste audit focused on volume, type and current management practice of solid waste generated in the campus. The solid waste collected was paper waste, plastic, biodegradable waste, biomedical waste, construction waste, glass waste and other miscellaneous waste. The total solid waste collected in the campus is 33580 kg/month and 402960 kg/year. Paper waste is a major solid waste generated by all the departments. Old answer sheets, old bills etc. are sold to the authorized vendors. Plastic waste generated by all departments, administrative sections as well as support services is categorized at point source and sent for recycling. Metal waste is collected, stored and sold to authorized vendors for further processing. Few glass bottles are reused in the laboratories. Biodegradable waste is given to municipal corporation of Lonavala for disposal.

### Preventive Measures:

- All departments generate paper trash. Building Block A, in particular, is employing more one-sided sheets for printing and writing, which is a desirable practice.
- After their preservation term has expired, outdated answer sheets, reports, etc. are sent for shredding, pulping, and recycling.
- Institute has banned single use plastic for any administrative as well as other purpose and therefore very less amount of plastic waste is generated.
- Metal scrap is segregated separately by workshop of the institute and sent for recycling.
- Biodegradable garbage is a major source of solid waste on campus, originating primarily from canteens, messes, hostels, and guest houses. Canteen garbage is collected and delivered to the Lonavala Municipal Corporation.
- Glass waste is generated from laboratory mainly in the form of bottles; Many times bottles are reused for storing of other chemicals.
- Through paperless convocation applications, photocopies of answer sheets, circulars, and online interactions with colleges, the institute and campus save around 1,348,914 paper sheets each year, which is quite beneficial. It saves a number of trees each year and cuts CO2 emissions by 5.6168 tonnes.
- Building Block A have maximum e-waste due to Computer laboratory. E-waste generated at SIT and campus sent to recycle and reuse.
- Hazardous waste generated in solid and liquid state during experiments in laboratory at Building Block A is disposed properly.
- Photos and agreements

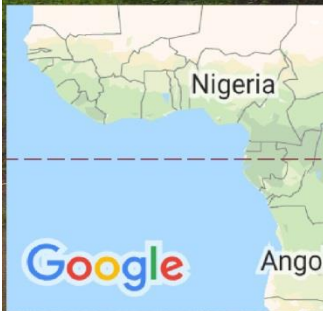


Sinhgad Institutes

# SINHGAD TECHNICAL EDUCATION SOCIETY'S SINHGAD INSTITUTE OF TECHNOLOGY

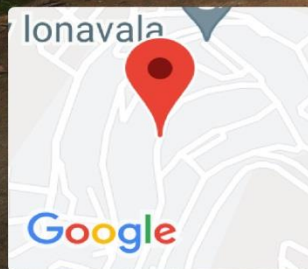
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**Kurvande, Maharashtra, India**  
Unnamed Road, Kusgaon, Lonavla, Maharashtra  
410401, India  
Lat 18.727743°  
Long 73.425203°  
21/09/21 08:35 AM

*Garbage collection*

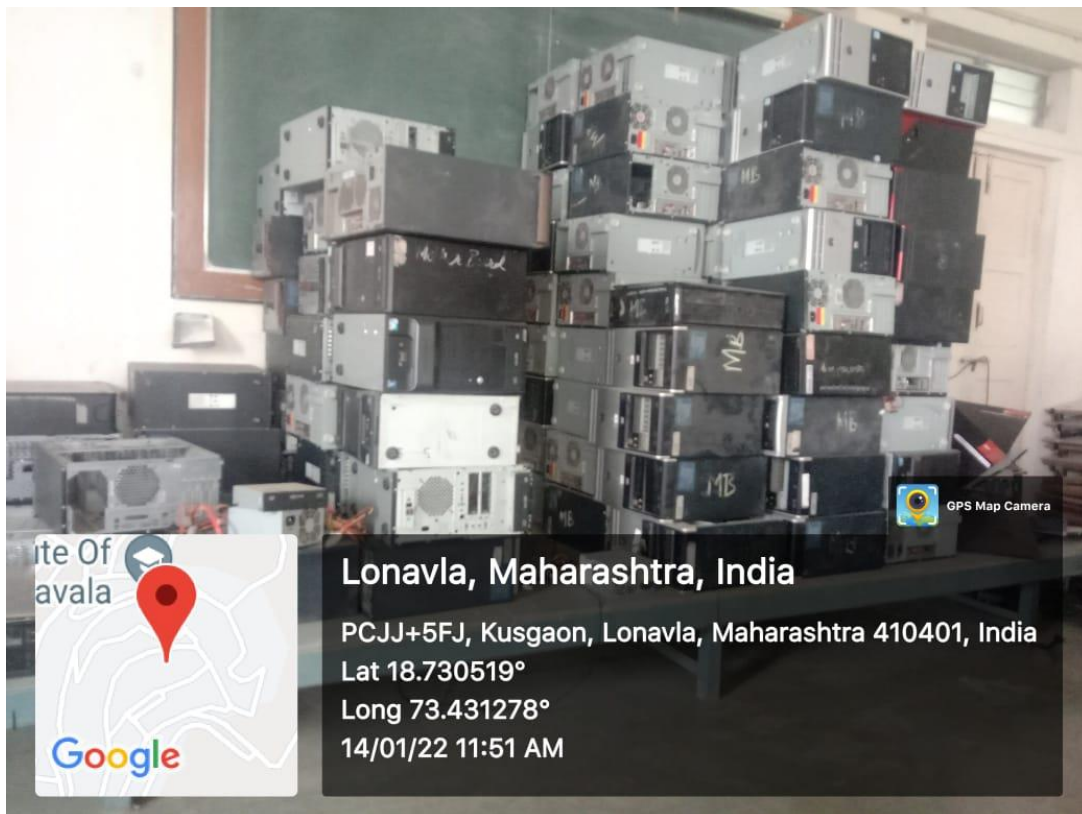


**Lonavla, Maharashtra, India**  
DOM 4, Kusgaon, Lonavla, Maharashtra 410401, India  
Lat 18.729921°  
Long 73.430253°  
20/09/21 04:04 PM

*Sewage Treatment Plant*



*Bio-medical Waste*



*E-Scrap*



Sinhgad Institutes

# SINHGAD TECHNICAL EDUCATION SOCIETY'S SINHGAD INSTITUTE OF TECHNOLOGY

(Affiliated to Savitribai Phule Pune University, Pune & Approved by AICTE)

Gat No. 309/310, off Mumbai Pune Expressway Kusgaon (Bk), Lonavala Pune -410401  
website: sit.sinhgad.edu



**Lonavla, Maharashtra, India**  
Unnamed Road, Kusgaon, Lonavla, Maharashtra  
410401, India  
Lat 18.734103°  
Long 73.427735°  
20/09/21 04:05 PM

*Waste Recycling*



**Kusgaon Budruk, Maharashtra, India**  
PCRJ+PRJ, Prem Nagar, Kevaregaon,  
Kusgaon Budruk, Maharashtra 410401, India  
Lat 18.742303°  
Long 73.431096°  
14/01/22 02:08 PM

*Chemical-Waste*



# SINHGAD TECHNICAL EDUCATION SOCIETY

(Regd. No. MAH / 7199.93 / Pune dt. 6/7/93 & F-8282 (Pune) dt. 12/8/93)  
Office : Gat No. 309 & 310, Kusgaon (Bk.) Off Mumbai - Pune Express Highway, Lonavala.  
Dist. Pune - 410 401. Tel : O : (02114) 673333, 673331, TeleFax : (02114) 673399. E-mail : principal\_sit@sinhgad.edu  
Regd. Office : S. No. 44/1, Vadgaon (Bk.), Off Sinhgad Road, Pune - 411 041.  
Telefax : (020) 24354721, 24354770, E-mail : stes@sinhgad.edu Website : www.sinhgad.edu

**Prof. M. N. Navale**  
M.E. (ELECT) MIE., MBA.  
Founder President

**Dr. (Mrs.) Sunanda M. Navale**  
B.A., M.P.M., Ph.D.  
Founder Secretary

**Dr. M. S. Gaiwad**  
M.E., Ph.D (Electronics Engg.)  
Campus Director  
Date: - 28/04/2021

STES/LON/OFF/2021-22/ 478

To,  
The Founder President,  
Sinhgad Technical Education Society,  
Smt. Anusayabai Khilare Road,  
Karve Road, Erandwane, Pune.

**Subject: Regarding the approval of rates of Old Papers, Metal Scraps,  
E-Scraps and other Scrap**

Respected Sir,

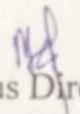
With reference to above mentioned the rates of Old Papers, Metal Scraps, E-Scraps and other scrap is negotiated with Mr. Harshal Zagade.

After the negotiation, the details of rates of various items are enclosed herewith.

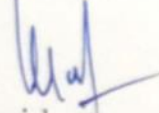
Rates will be applicable since 1<sup>st</sup> October 2019 to till date.

Put up for your necessary directives and approval.

Thanking you.

  
Campus Director  
Sinhgad Technical Education Society,  
Kusgaon (Bk), Lonavala

Approval / not approval

  
President

Encl: Scraps rate list of Harshal Zagade Enterprises.





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M.E., Ph.D (Electronics Engg.)  
Campus Director

STES/LON/OFF/2021-22/WO.NO/23

Date: 16/06/2024

To,  
M/s. Ecorich Engineers  
S. No.27/28, Flat No.A212,  
Vardhaman Vatika opp. Saundaryam hotel,  
Thergaon, Pune 411033.

**Sub: - Annual Maintenance Contract for Operation and Maintenance of 1 MLD Sewage Treatment Plant at STES Kusgaon (BK), Lonavala**

Sir,

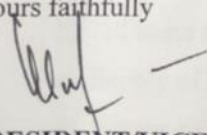
This has reference to your quotation no. EF/QTN/2021-22/06/23, dated 05.06.2021 and subsequent discussion you had with our Project Engineer and we have pleasure in placing the Work Order for the above mentioned works at the rates mentioned in Bill of Quantities – Annexure - I.

The undersigned, agrees with the estimated cost of **Rs. 47,000/- per Month exclusive GST (Rupees Forty Seven Thousand only)** as per Annexure – I enclosed. However, the payment shall be made as per the actual measurements jointly recorded and accepted.


Unit rate quoted is inclusive of all taxes and duties, except GST and no extra payment are allowable on account of any tax/ duties.

Please return copy of this Work order with Annexure I duly signed in token of your acceptance.

Thanking you,  
Yours faithfully

  
**PRESIDENT/VICE PRESIDENT**

Encl: Annexure – I

  
**CAMPUS DIRECTOR  
STES, LONAVALA**



Sinhgad Institutes

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SINHGAD TECHNICAL EDUCATION SOCIETY  
KUSGAON (BK.), LONAVALA - 410401

STES/EST/Approval/21-22/510

Dates: - 16/06/2021

To,  
Campus Committee,  
STES, Kusgaon (BK),  
Lonavala - 410401

Subject: - Approval for expenditure of Rs. 47000/- per month

Respected Sir,

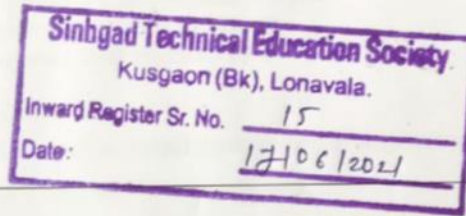
The proposal for annual maintenance contract for operation and maintenance of 1 MLD sewage treatment plant at STES Kusgaon (BK), Lonavala which includes:

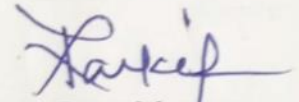
1. Requirement, detailed specifications prepared by the department.
2. Quotations (1) received from suppliers. Recommendations of Head of Department / College regarding Technical specifications / cost / suitability etc.
3. The probable expenditure is Rs. 47000/- per month exclusive of GST.
4. Remarks, if any.

It is requested to kindly accord your approval on this proposal.

Yours faithfully,

  
Project Engineer



  
Jr. Estate Manager

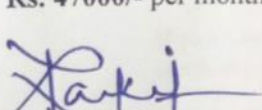
Resolution No. 15

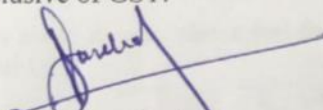
Date:- 17/06/2021

**Recommendation from Campus Committee**

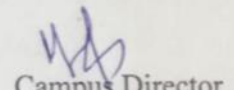
**Sub:** - Approval for expenditure of Rs. 47000/- Refs: - Letter No 510 Dated 16/06/2021 from Sinhgad Technical Education Society - Estate office

The Purchase Committee Meeting on the above subject was held on 17/06/2021 It is recommended to accord your approval annual maintenance contract for operation and maintenance of 1 MLD sewage treatment plant at STES Kusgaon (BK), Lonavala (Activity) from M/s. Ecorich Engineers, Pune (Supplier) for Rs. 47000/- per month exclusive of GST.

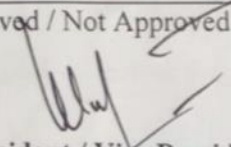
  
Jr. Estate Manager

  
Project Engineer

Principal, SKNSITS

  
Campus Director

Approved / Not Approved

  
Hon. President / Vice President  
Sinhgad Technical Education Society, Pune.



Sinhgad Institutes

Celebrating 25 Years

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Founder Secretary

**Dr. M. S. Gaikwad**  
M.E., Ph.D (Electronics Engg.)  
Campus Director

STES/LON/OFF/2020-21/WO.No./ 26

Date: 6/10/2020.

To,  
M/s. Chaitanya Enterprises,  
Transport Service, Lonavala - 410401  
Mo. No. 8329337801/9921494649

**Sub: Rate contract of garbage pickup for STES Kusgaon (BK), Lonavala Campus**

**Ref: Your Quotation No. Nil, dated 30/09/2020**

Dear Sir,

We reference to your above Quotation and have pleasure in confirming our order for garbage pickup and dispose the garbage of Campus.


The terms and conditions of contract shall be as under:

1. To pick up and dispose the garbage of Campus (wet & dry etc.).
2. To identify dumping place by your own and STES has no any obligation to where the garbage is getting disposed.
3. The rate of pick up and disposal of garbage per trip in a tractor with trolley vehicle shall be Rs. 650/- inclusive of all applicable government taxes and levies.
4. The variation in rates if any shall be mutually decided after discussion between both parties after Two years.
5. The discontinuation of service shall come in effect with prior one month notice from either side.
6. No material to be picked up by contractor which is not assigned as garbage by STES authorities.

Please return one copy of this duly signed in token of your acceptance.

Thanking you,

  
PRESIDENT/VICE PRESIDENT

  
**CAMPUS DIRECTOR**  
**STES, LONAVALA**



Sinhgad Institutes

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# CHAITANYA ENTERPRISES

Transport Services, Lonavala 410401

We Provided all types of transport services

Mob No:- 8329337801 - 9921494649

प्रति,

दिनांक:- 30/09/2020

मा. कॅम्पस डायरेक्टर साहेब

सिंहगड कॉलेज

लोणावळा 410401

विषय :- कचरा वाहतुक सेवा देणेबाबत

माननिय साहेब

मला मिळालेल्या माहितीनुसार आपल्या लोणावळा कॅम्पस मध्ये घंटागाडी व सर्व कॅम्पस मधिल  
दैनंदिन निर्माण होणारा कचरा उचलण्याचे व वाहतुक करण्याचे काम कंत्राटी पध्दतीने दयायचे आहे.

माननिय साहेब माझाकडे कचरा वाहतुकीस योग्य असा टॅक्टर आहे. व मी प्रति <sup>650</sup> 700/- फक्त  
दराने सदर काम करण्यास तयार आहे. तरी कृपया मला आपल्या सेवेची संधी दयावी की नम्र विनंती.

धन्यवाद,

आपला कृपामिलाषी

*Jairam*

30-9-2020

*Approved*  
*[Signature]*  
30/9/2020



## 6. Water Conservation

Campus various practices to effectively use the available water

- **Rain water harvesting**

Rain water is collected and saved for general use in campus like gardening, sports ground watering etc. Various water paths are constructed throughout the campus.

Some of the prime locations are:

- a) Football Ground
- b) Cricket Ground
- c) Estate office

- **Borewell /Open well recharge**

Apart from rain water harvesting, 6 numbers of borewell are provided in the campus at following locations:

- a) Corporate Taring Centre
- b) STES Main Canteen
- c) Sajjangad Hostel Entrance
- d) Kalyan Shoppe
- e) Football Ground

- **Construction of tanks and bunds**

There are 3 main tanks constructed in the campus worth capacity of storing 20 lakhs litre of water. Two tanks are constructed near estate office. They have capacity of 14 lakh litre and 5 lakh litre. One tank of 1 lakh litre capacity is constructed underground at Security office. Apart from these main tanks, few storage tanks are also built for water management.

- **Waste Water Recycling:**

When the buildings were few, the effluent from bathroom & kitchens and sewage from WC was being disposed off through septic tanks and soakage pits. Later on mini compact sewage plants were used. However, due to increase in load, a sewage treatment plant of capacity 3.5 lakh liter/ day was installed. In due course with further increased in the load, 10 lakh liter/day capacity sewage treatment plant has been erected. Treated water from this STP is being used for gardening and constructions purposes.

### Plant of Equipment:

|                             |                            |
|-----------------------------|----------------------------|
| Sewage collection tank      | : 2.31 lakh liters - U. G. |
| FAB Reactor                 | : 3.52 lakh liters U. G.   |
| Secondary Tube Settler tank | : 0.77 lakh liters U,G,    |
| Sludge digester tank        | :1.485 lakh liters U.G.    |
| Chlorine contact tank       | :1.485 lac litres - U.G.   |
| Pressure sand filter        | :10 lakh liters/day.       |
| Activated Carbon Filter     | :10 lakh liters / day      |
| Air Blower                  | : 3 OHP ( 2 Nos)           |
| Centrifugal pumps           | : 5 HP 2 Nos               |
|                             | :3 HP (2 Nos)              |
|                             | :10 HP (2 Nos)             |



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Hypo dozing tank with dozing pump: 0-10liter/Hour cap. - 1 No.

Submersible pump to lift the treated water for Gardening: 15 HP – 1 No

- **Maintenance of water bodies and distribution system in the campus**

Establishing water treatment plant for this scheme.

This water supply scheme comprises of lifting of raw water from Valvan dam to water treatment plants of MJP in our campus, where it is filtrated and chlorinated and supplied to Kusgaon, Dongargaon and to our campus. MJP has a sump and pump house to lift water at the down stream of Valvan dam.

At present this scheme is operated and maintained by Maharashtra Jeevan Pradhikaran (MJP) and we have to pay to them for water supplied to us as per their charges.

Present requirement is 18 lakh liter/day which is sanctioned by MJP and they are supplying the same.

Source

Valvan dam through MJP.

Present requirement: 18 lakh liters/ day

Availability: 18 lakh litters/day

Storage Capacity

UG Sump :1 lakh Litres

UG Sump :5 lakh Litres

UG Sump: 14 lakh Litres

Ground Sump: 1 lakh Litres to utilize back wash water of filters for gardening/ construction.

**Plant and Equipment:**

1 No 33 HP submersible pump at Valvan dam sump of MJP

6 Nos 25 HP pumps in campus

3 Nos 5 HP pumps in the campus

3 Nos 5 HP pumps in Tube well

6 Nos 3 HP pumps in campus



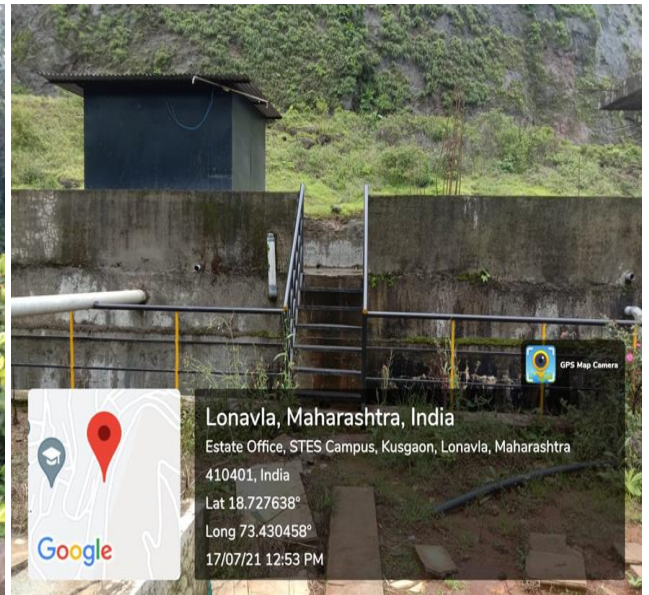
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- **Sample Photographs**





## 7. Activities and Outreach programs

Institute conducts various activities to promote Tree plantation, green energy, etc in society through various clubs like NSS, IEE, MESA, etc.

### • **Tree Plantation**

Tree plantation is promoted in society through NSS special camp and Activities year around. Tree plantation is one of the part of NSS special camp where NSS unit stays in a village and plants trees in front of homes of villagers. Then students asks the villagers to look after trees and also visit frequently to check the growth of trees. Through Lokjagar activity conducted every day in special camp, students create awareness about tree plantation, Organic Farming and many social issues . Institute participated in Programs arranged by University to promote tree plantation like HARIT WARI, Worlds biggest sapling Distribution drive, etc

### • **Energy Audit**

Every NSS special camp, students conduct energy audits of villagers homes and Farm. In this activity we form a group of four students. Students along with energy meter, tester, safety gloves, etc visit to homes of villagers and check the faulty connections, losses in transmission, power consumption of various electrical and electronic appliance and suggest the proper remedy.

### • **Renewable energy**

People look towards renewable energy source as costly affair and usually don't prefer because of lack of awareness. Through NSS special camp we undertake projects which also involve development of wind and solar hybrid power plant for school or Gram Panchayat. This will benefit in

- Students development
- Awareness about green energy sources
- Hybrid research
- Students knowledge enrichment

This effort is also recognised by AICTE and one of the student group SAHYADRI got selected for AICTE CHHATRA VISHWKARMA Awards National Convention.

### • **Clean and green campus recognition / awards**

Lonavala is a hill station surrounded by the mountainous regions. It receives annually 500 cm of rainfall. There are good numbers of water resources in the surroundings like Pavana dam, Valvan dam and Bajaj dam etc, that caters to the need of our more than 5000 populations in the campus. STES Campus Kusgaon (Bk), Lonavala received Clean Campus Award -2017 on 2 October 2017.





**Photo: clean campus award 2 October 2017.**

Institute NSS unit regularly carried out Tree plantation activity. This activity helps in encouraging eco-friendly environment which provides pure oxygen within the institute and awareness among students. Dedicated staff is allotted for gardening and watering of all trees and plants

- **Beyond the campus environmental promotion activities**

Energy audit activity carried by NSS unit

| Year    | Date       | Village | Number of students | Name of PO  | Description of activity  |
|---------|------------|---------|--------------------|-------------|--|
| 2016-17 | 26/12/2016 | Kadadhe | 75                 | V. M. Magar | Four teams were formed each of 5 students and students did energy audit of homes and shops in village. Suggested ways to save energy |
| 2017-   | 27/12/2017 | Kadadhe | 75                 | V. M. Magar | Four teams were formed each of 5 students and  |

|         |            |           |    |                                |  |
|---------|------------|-----------|----|--------------------------------|--|
| 18      |            |           |    |                                | students did energy audit of homes and shops in village. Suggested ways to save energy   |
| 2018-19 | 18/01/2019 | Bramhnoli | 75 | S. S. Devarshi                 | Four teams were formed each of 5 students and students did energy audit of homes and shops in village. Suggested ways to save energy |
| 2019-20 | 28/12/2019 | Kadadhe   | 75 | S. G. Dabade<br>S. S. Devarshi | Four teams were formed each of 5 students and students did energy audit of homes and shops in village. Suggested ways to save energy |
| 2020-21 | 10/03/2021 | Kadadhe   | 75 | S. S. Devarshi<br>S. G. Dabade | Four teams were formed each of 5 students and students did energy audit of homes and shops in village. Suggested ways to save energy |

• **Sample Photographs**



• **Photo: Tree Plantation activity 30/12/2017**



**Photo: Tree Plantation activity 27/12/2019**

## Solar Wind Hybrid Power plant developed at “Bramhanoli” Village in NSS Special camp





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*Team Sahyadri at AICTE CHHATRA AWARDS National convention*



**लोणावळा :** येथील सिंगड इन्स्टिट्यूट ऑफ टेक्नॉलॉजीच्या विद्यार्थ्यांनी सादर केलेल्या प्रकल्पांसोबत शिक्षक व विद्यार्थी.

## सिंगड इन्स्टिट्यूट विद्यार्थ्यांच्या प्रकल्पाची राष्ट्रीय स्तरावर निवड

लोणावळा, दि. ९ (प्रतिनिधी)  
- लोणावळा येथील सिंगड इन्स्टिट्यूट ऑफ टेक्नॉलॉजीच्या राष्ट्रीय सेवा योजनेच्या विशेष श्रमसंस्कार शिबिरादरम्यान करण्यात आलेल्या प्रकल्पांची एआयसीटीईच्या तिसऱ्या विभागीय विद्यार्थी अधिवेशनासाठी दोन संघांची निवड झाली.

यामध्ये संघांनी बनवलेले प्रकल्प म्हणजे विंड अँड सोलार हायब्रीड पॉवर प्लान्ट व हायब्रीड एअर अँड वॉटर कुलर यांचा समावेश होता. मुख्यत्वे हा प्रकल्प मागील

महाराष्ट्र, गोवा राज्यातून ५८ संघांचा समावेश होता.

यातून १८ संघांची निवड ही दिल्ली येथे होणाऱ्या एआयसीटीई राष्ट्रीय विद्यार्थी अधिवेशनासाठी निवड झाली आहे. त्यात विंड सोलार हायब्रीड पॉवर प्लान्ट या सिंगडच्या कल्पाची छात्र अधिवेशन दिल्ली येथे होणाऱ्या राष्ट्रीय स्तरावरील स्पर्धेसाठी निवड झाली. हे अधिवेशन जानेवारीच्या तिसऱ्या आठवड्यात दिल्ली येथे होणार आहे. राष्ट्रीय स्तरावर होणाऱ्या अधिवेशनात

The news published in daily "Likmat" dated 09 Jan 2020 in Devnagari.

The highlights of the news are:

- The project of students of Sinhgad Institute of Technology selected on National Level
- Two teams selected for regional convention of third AICTE Chhatra Vishwakarma Award
- The project titled "Wind & Solar Hybrid Power Plant" and "Hybrid Air & Water Cooler"
- The teams are among 18 selected teams across the country

Document in Regional Language  
Translated to English



  
Dr. M. S. GAIKWAD  
PRINCIPAL  
Sinhgad Institute Of Technology, Lonavala



Sinhgad Institutes

**SINHGAD TECHNICAL EDUCATION SOCIETY'S  
SINHGAD INSTITUTE OF TECHNOLOGY**

(Affiliated to Savitribai Phule Pune University, Pune & Approved by AICTE)

Gat No. 309/310, off Mumbai Pune Expressway Kusgaon (Bk), Lonavala Pune -410401  
website: sit.sinhgad.edu





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**GUINNESS WORLD RECORDS**  
**CERTIFICATE**

The largest distribution of saplings is 16,661, and was organised by National Service Scheme-Savitribai Phule Pune University (India) in Maharashtra, India, on 23 June 2019.

**OFFICIALLY AMAZING**

**RECORD HOLDER**



## सावित्रीबाई फुले पुणे विद्यापीठ राष्ट्रीय सेवा योजना

आयोजित

### ॥ स्वच्छ वारी-स्वस्थ वारी ॥ निर्मल वारी-हरित वारी ॥

### गिनीज वर्ल्ड रेकॉर्ड व एनएसएस वारी महासंकल्प अभियान

### उपक्रमामध्ये सहभागी झाल्याबद्दल

## विशेष सन्मानपत्र

दि. २३ जून २०१९, स्थळ : सावित्रीबाई फुले पुणे विद्यापीठ, पुणे

श्री./कु. डा. संतोष गुंडा ढबडे

सिंहगड अभियांत्रिकी महाविद्यालय, लोठावळा

यांनी दि. २३ जून २०१९ रोजी सावित्रीबाई फुले पुणे विद्यापीठ, राष्ट्रीय सेवा योजना आयोजित गिनीज वर्ल्ड रेकॉर्ड व स्वच्छ वारी-स्वस्थ वारी-निर्मल वारी-हरित वारी-एनएसएस वारी महासंकल्प अभियान-२०१९ उपक्रमामध्ये सहभागी होऊन विशेष योगदान दिल्याबद्दल सदर विशेष सन्मानपत्र गौरवपूर्वक प्रदान करण्यात येत आहे.



डॉ. प्रभाकर देसाई  
संचालक, रासेयो



डॉ. नितीन करमळकर  
कुलगुरु



*Special Appreciation Certificate to Prof Santosh Dabade  
for Participating in Guinness World Record & NSS Waari*

SIT/NAAC-2022/Criteria-7/7.3

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