

Criteria No. 7: Institutional Values and Social Responsibilities

7.1.2 The Institution has facilities and initiatives for

1. Alternate sources of energy and energy conservation measures
2. Management of the various types of degradable and non-degradable waste
3. Water conservation
4. Green campus initiatives
5. Disabled-friendly, barrier free environment

Index

Sr. No.	Facilities and Initiatives	Page No.
1	Alternate sources of energy	2
2	Waste management	9
3	Water conservation	10
4	Green campus initiatives	12
5	Disable-friendly environment	29

1. Alternate sources of energy and energy conservation measures

1.1 Solar Hybrid Water Heating System

Solar power is the conversion of renewable energy from sunlight into electricity, either directly using photovoltaic, indirectly using concentrated solar power, or a combination.

Solar water heater is the most competitive alternative to conventional water heating methods such as electric geysers and fuel-fed boilers. Solar water heater save's electricity, helps in preservation of the environment as it is a non-polluting source of energy, involves zero running cost safe as electricity or gas is not required.

In LGNSCOE campus premises solar water heating facilities with solar panels were installed on the roof tops of boys and girls' hostel which helps to reduce electrical power to heat the water. Solar panel cleaning by chemical replacement carried out properly.



Solar water heater

1.2 Purchase order of Solar Hybrid Water Heating System of 5000 LPD

Purchase Order

1

Requisition No : Nil Department: Kalyani Charitable Trust	P.O.No : KCT/ADMIN/2014-15/02 Date : 14/07/2014
To: HSS Heat Pump Pvt. Ltd. Office No. 2, E-Building Mantri Market, Hadapsar, Pune-411038, Maharashtra, India Email:- sales@hssshp.com Web: www.hssshp.com	Ref No: Your quotation no :HSS/FEB/3014-15/29 Date: 14/07/2014

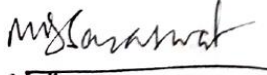
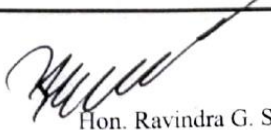
Please supply the under mentioned goods subject to terms and conditions mentioned below and overleaf.

Sr.	Description	Qty. in nos.	Rate Per Unit Rs.	Discount	Total Amt. Rs.
1.	Water Heater-Heat Pump-HS-5 of capacity 5000LPD	1 No.			
2.	Primary Hot Water circulation pump	1 No.	3,48,000.00	15%	2,95,800.00
3.	Control Panel for Heat Pump & Water circulation pumps	1 No.			
Rs. Two Lakh Ninety-five Thousand and Eight Hundred only				Total	2,95,800.00

Terms & Conditions:-

1. LBT : LBT is not applicable.
2. VAT : Price is inclusive of all taxes.
3. Transportation : Transportation is paid by buyer. ✓
4. Warranty : 18 months from the date of dispatch (in case of any part failure it will be replace by seller without any charges)
5. Payment : 1) 25% Advance along with order
2) 25% Against supply & installation
3) 25% After completion of 30 days and
4) 25% After completion of 60 days of complete installation and satisfactory trail.

Note: Please send the above material and bill in the name of
Kalyani Charitable Trust
Sapkal Knowledge Hub, Kalyani Hills, Anjaneri-Wadholi, Trimbakeshwar Road,
Tal-Trimbakeshwar, Dist-Nashik - 422213

 Dr. Madhav Deo Saraswat CEO	 Hon. Ravindra G. Sapkal Chairman & MD
---	---


Prof.(Dr.) Sahebrao B. Bagal
 Principal
 Late G. N. Sapkal College of Engineering
 Anjaneri, Nashik-422 213.

1.3 Tax Invoice Solar Hybrid Water Heating System of 5000LPD



TAX INVOICE

KALYANI CHARITABLE TRUST, Sapkal Knowledge Hub, Trimbakeshwar Rd, Nashik.	Invoice No: 01/V/2014-2015 Date:- 24.06.2014 P.O. No:- KCT/ADMIN/13-14 Date:- 26.04.2014
---	---

Sr.	DESCRIPTION	QTY	UNIT RATE	AMOUNT
1.	SOLAR HYBRID Water Heating System of 5000 LPD	01 Set.	2,95,000	2,95,800
				2,95,800

Amount in words: Rs. Two Lakh Ninety Five Thousand Eight Hundred Only.

V.A.T.NO.: 27810996226V W.e.f. :15/06/2013 C.S.T.NO.: 27810996226C W.e.f. : 15/06/2013

I/We hereby certify that my/our registration certificate under the Maharashtra Value Added Tax Act, 2002 is in force on the date on which the sales of the goods specified in this 'Tax Invoice' is made by me/us and that the transaction of sale covered by the due tax. Invoice has been effected by me/us and shall be accounted for in the turnover of sales while filing of return and due tax if any, payable on the sale has been paid or shall be paid.

TERMS AND CONDITIONS.

1. Any discrepancy noted should be reported with in a week of Receipt of the consignment.
2. All payment is made by DD on HSS Heat Pumps Pvt. Ltd. at Pune.
3. All disputes subjected to Pune Jurisdiction only.

Receiver's Signature

For HSS Heat Pumps Pvt Ltd


Authorized Signatory


Prof.(Dr.) Sahebrao B. Bagal
Principal
Late G. N. Sapkal College of Engineering
Anjaneri, Nashik-422 213.

1.4 Purchase order of Solar Hybrid Water Heating System of 3000LPD



Regd. No. Mah / 179 / Mumbai / Pub / Trust No.F / 23935 / Mumbai

Purchase Order

1.

Requisition No : Nil	P. O. No : KCT/ADMIN/2015-16/03
Department: Kalyani Charitable Trust	Date : 04/05/2015
To: HSS Heat Pump Pvt. Ltd. Office No. 2, E-Building' Mantri Market, Hadapsar, Pune-411038. Maharashtra, India	Ref No: Your quotation no :HSS/FEB/3014-15/3-A
Email:- sales@hssshp.com Web: www.hssshp.com	Date: 19/04/2014

Please supply the under mentioned goods subject to terms and conditions mentioned below and overleaf.

Sr. No.	Description	Qty. in nos.	Rate Per Unit Rs.	Discount	Total Amt. Rs.
1.	Water Heater-Heat Pump-HS-5 of capacity 3000LPD	2 No.			
2.	Primary Hot Water circulation pump	2 No.	2,48,000.00	15%	4,21,600.00
3.	Control Panel for Heat Pump & Water circulation pumps	2 No.			
Rs. Four Lakh Twenty-One Thousand and Six Hundred only				Total	4,21,600.00


Terms & Conditions:-

1. LBT : LBT is not applicable.
2. VAT : Price is inclusive of all taxes.
3. Transportation : Transportation is paid by buyer.
4. Warranty : 18 months from the date of dispatch (in case of any part failure it will be replace by seller without any charges)
5. Payment : 1) 25% Advance along with order
2) 25% Against supply & installation
3) 25% After completion of 30 days and
4) 25% After completion of 60 days of complete installation and satisfactory trail.

Note: Please send the above material and bill in the name of

Kalyani Charitable Trust
Sapkal Knowledge Hub, Kalyani Hills, Anjaneri-Wadholi, Trimbakeshwar Road,
Tal-Trimbakeshwar, Dist-Nashik - 422213


Prof.(Dr.) Sahebrao B. Bagal
Principal
Late G N. Sapkal College of Engineering
Anjaneri, Nashik-422 213.


Chairman & MD
Kalyani Charitable Trust
Sapkal Knowledge Hub

HEAD OFF: Ravi Communication, J. J. Hospital Campus, Byculla, Mumbai - 400 008. Ph : 022-23774545, 23745031, Fax : 022-23708310.

MUMBAI OFFICE: Sapkal Knowledge Hub, Unit No. 22, 1st Floor, Shubhada Tower Shopping Center, Sir Pochkanwala Road, Near R.T.O. Office, Worli, Mumbai - 400 030. Ph.: 022-24938914 / 15, Fax : 022-24938919.

CORPORATE OFFICE: Sapkal Knowledge Hub, "Parag" 46, Ashwin Sector, Opp. Hotel Sai Palace, Mumbai - Agra Highway, Nashik - 422 009. Ph : 0253 - 2392450/ 51, Fax : 0253 - 2375557.

CAMPUS: Sapkal Knowledge Hub, Kalyani Hills, Anjaneri - Wadholi, Trimbakeshwar Road, Nashik - 422 213, Ph.: 02594-220167 - 70, Fax: 02594-220162 Email : cmd@sapkalknowledgehub.org | Website : www.sapkalknowledgehub.org

1.5 Tax Invoice Solar Hybrid Water Heating System of 3000LPD



TAX INVOICE

KALYANI CHARITABLE TRUST, Sapkal Knowledge Hub, Trimbakeshwar Rd, Nashik.	Invoice No: 05/V/2015-2016 Date:- 07.07.2015 P.O. No:- KCT/ADMIN/2015-16/03 Date:- 04/05/15
---	--

Sr. No	DESCRIPTION	QTY	UNIT RATE	AMOUNT
1	Water heater heat pump HS-5 of capacity 3000LPD	2 Nos		
2	Primary hot water circulation pump	2 Nos	1,87,378.00	3,74,756.00
3	Control panel for heat pump & water circulation pump	2 Nos		
			VAT 12.5% Round off	46,844.5 (0.5)
			TOTAL	4,21,600.00

Amount in words: Rs. Four Lakh Twenty One Thousand Six Hundred Only.

V.A.T.NO.: 27810996226V W.e.f.: 15/06/2013 C.S.T.NO.: 27810996226C W.e.f.: 15/06/2013

I We hereby certify that my our registration certificate under the Maharashtra Value Added Tax Act, 2002 is in force on the date on which the sales of the goods specified in this Tax Invoice is made by me us and that the transaction of sale covered by the due tax. Invoice has been effected by me us and shall be accounted for in the turnover of sales while filing of return and due tax if any payable on the sale has been paid or shall be paid.

TERMS AND CONDITIONS.

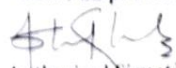
1. Any discrepancy noted should be reported within a week of Receipt of the consignment.
2. All payment is made by DD on HSS Heat Pumps Pvt. Ltd. at Pune
3. All disputes subjected to Pune Jurisdiction only.

Receiver's Signature :


Prof.(Dr.) Sahebrao B. Ranal
Principal
Late G. N. Sapkal College of Engineering
Anjaneri, Nashik-422 213



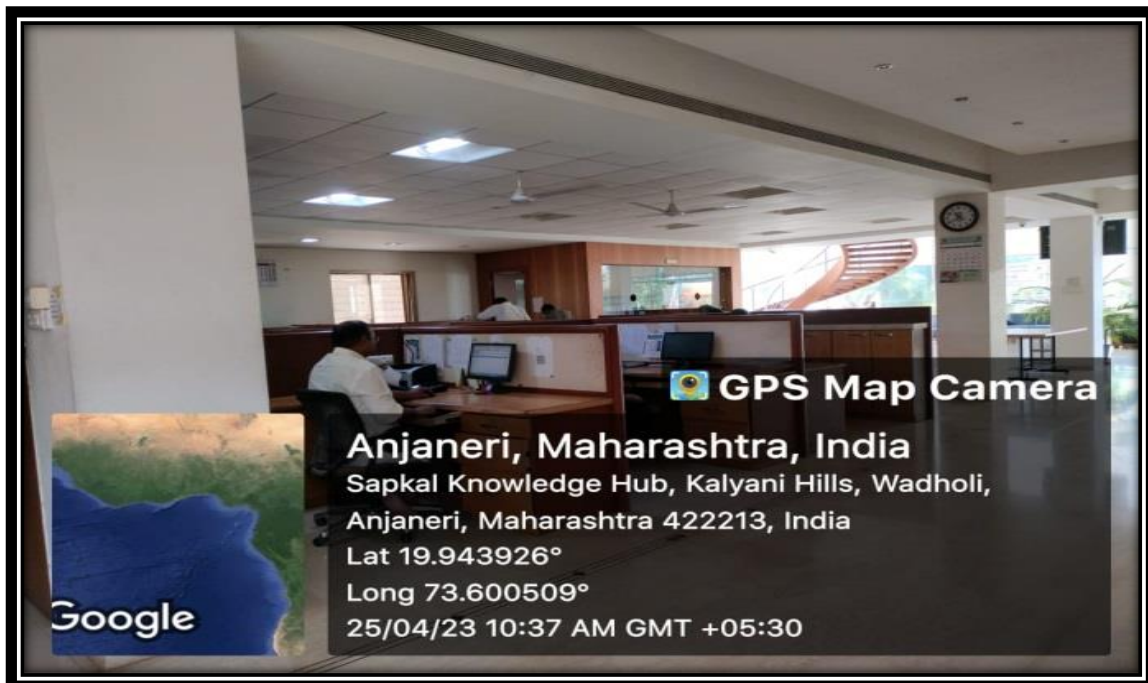
For HSS Heat Pumps Pvt Ltd


Authorized Signatory

Flat No. 2, E Building, Mantri Market, Hadapsar, Pune - 411028
Cell: +91 91588 97762 / 63 / 64
Email: sales@hsshp.com service@hsshp.com Web: www.hsshp.com

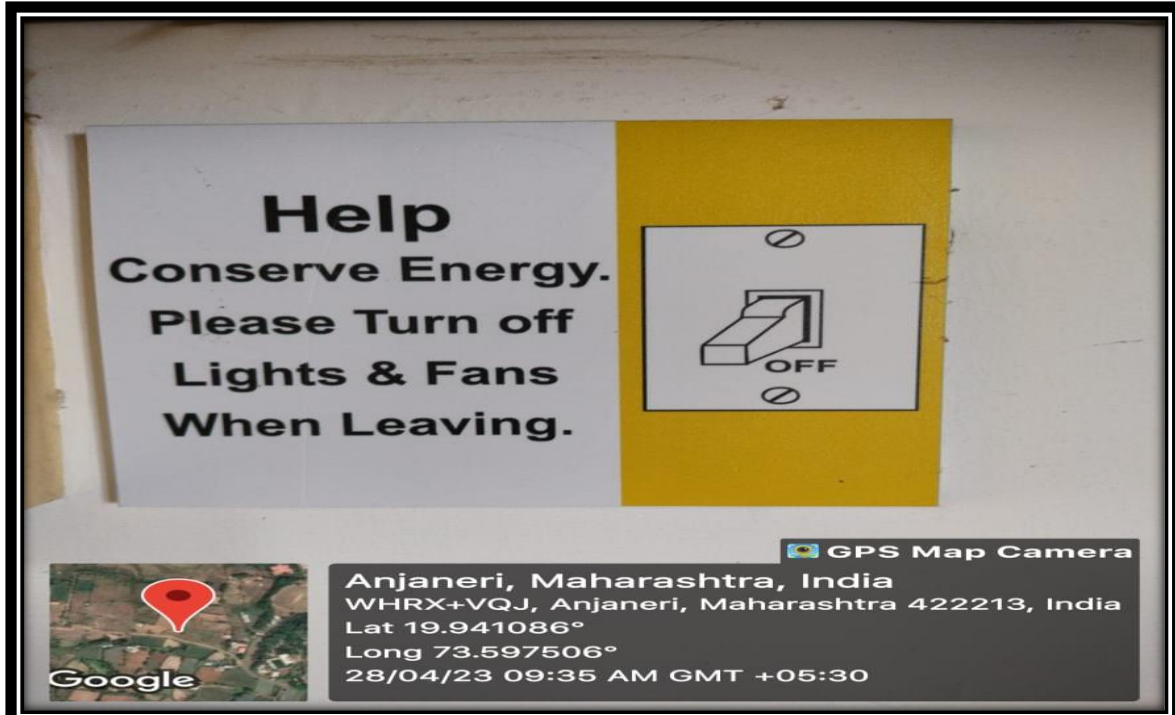
1.6 Use of Light Emitting Diode (LED)

The institute has provided LED bulbs, tubes and power efficient equipment for conserving energy. Master switches provided in departments for each room to shut down power of entire room when it is not in use.



LED Bulbs in Building

1.7 Display Boards of Energy conservation



2. Management of the various types of degradable and nondegradable waste

2.1 Solid waste management

The solid waste before disposal is categorized into degradable and non-degradable waste. The waste like remains of plants and kitchen waste are disposed by means of composting. Non-degradable waste like, plastic wrappers, sheets, etc., are collected at source by placing trash bins at suitable locations. This plastic waste is then disposed safely through a plastic recycling agency.



Solid Waste Management by composting method



Dustbins for collection of non-degradable waste

2.2 Liquid waste management

Although being situated in the hilly terrain with no support from the local government authorities, the institute disposes its liquid waste into the environment safely. A septic tank has been built to separate solid waste. The liquid waste is then discharged into a leach field

where the dissolved solids are absorbed by soil and clear water then moves by gravity deep into the earth to rejuvenate the ground water level.

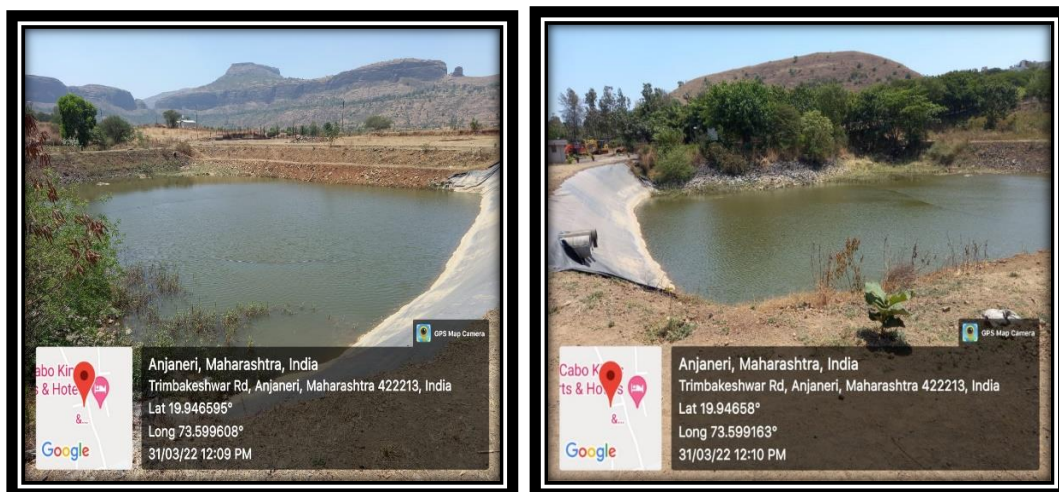


Liquid Waste Management

3. Water conservation

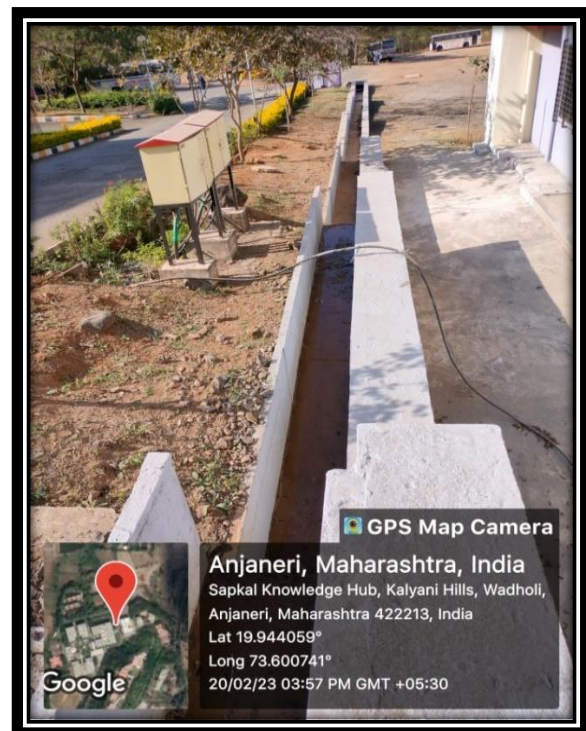
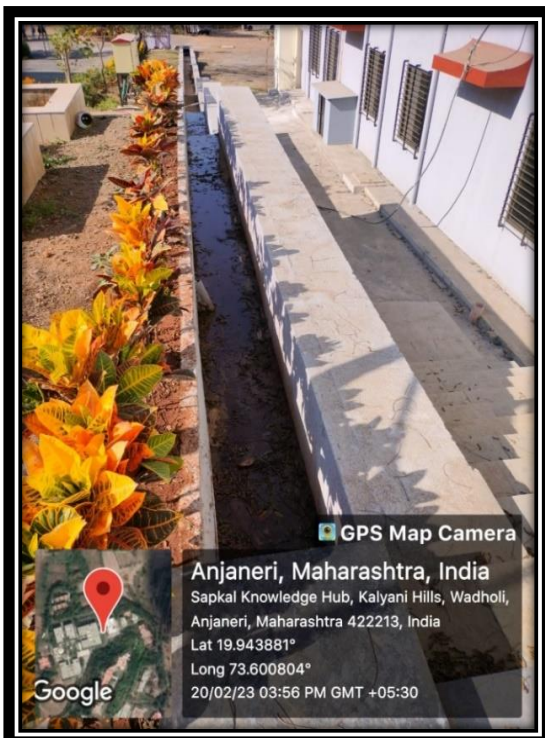
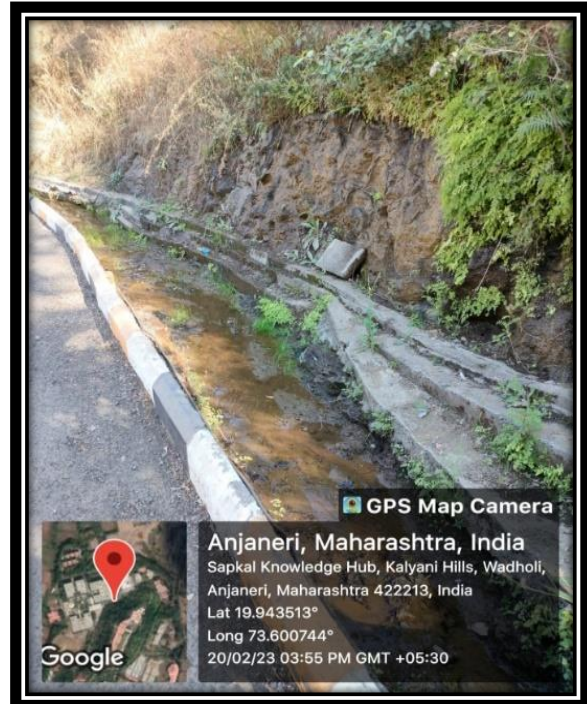
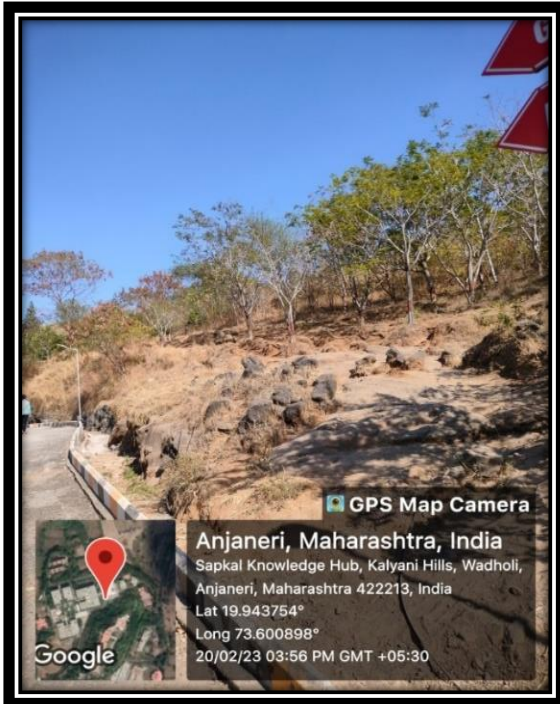
Water the natural resource and the main constituent of our planet earth. Conservation of water mainly refers to protect, preserve, and control the usage of water and its resources. It is the system introduced to manage freshwater, reduce the wastage and protect the water and its resources in order to reduce and to avoid the scarcity. Therefore, we all should come forward to create awareness about conservation of water among our own friends, family, neighbors, society, etc. Conservation of water is very much essential as it saves life on earth. Following conservation of water measures through bund, tanks and reservoirs are initiated by LGNSCOE campus:

3.1 Rain water harvesting



Reservoir with Harvested rainwater

3.2. Construction of tanks and bunds



Bunds

3.3. Overhead Tanks & Distribution System of Water in Campus



Overhead tanks & distribution system

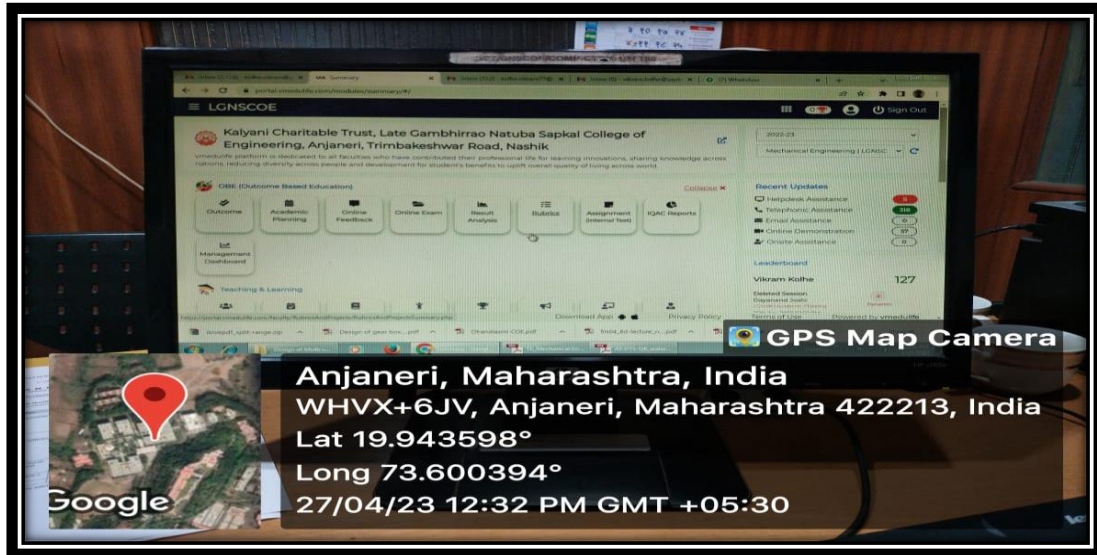
4. Green campus initiatives

The institute initiates environment and eco-friendly practices and education to promote sustainability in the campus. Green campus initiatives prefer to use nonconventional and renewable resources. The green campus initiative also includes proper handling, disposal of waste, harvesting and saving water, purchasing of environment friendly, power saving equipment's. Institute use ERP software to avoid paper use.

It needs strategies and planning to implement green campus initiatives at the institute. The institute is implementing different activities among students and promoting awareness about a social responsibility of conservation of natural resources and accelerating the sustainability

and environmental protection by tangible initiatives for green campus at LGNSCOE.

4.1 Use of ERP Software to reduce paper work.

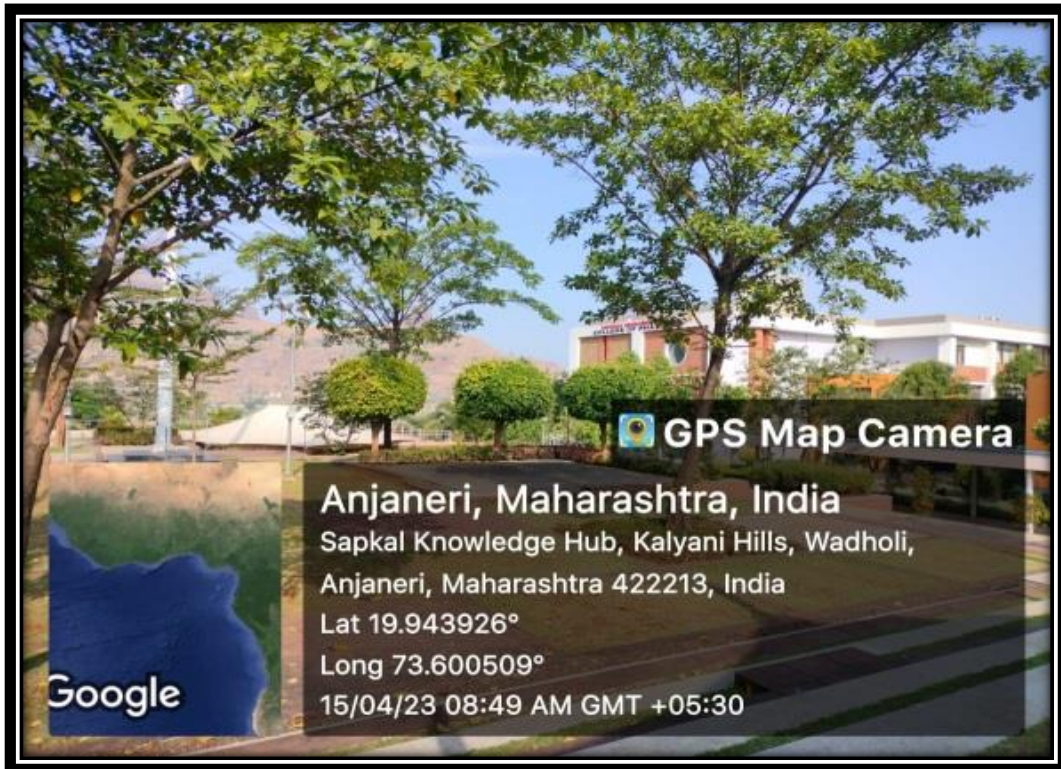


4.2 Plantation and landscaping in LGNSCOE Campus.

The campus has significant greenery covering all over and is maintained by a team of around 50 gardeners. All these efforts have been honored by the Government of Maharashtra with 'Chatrapati Shivaji Maharaj Vanashree Award.'



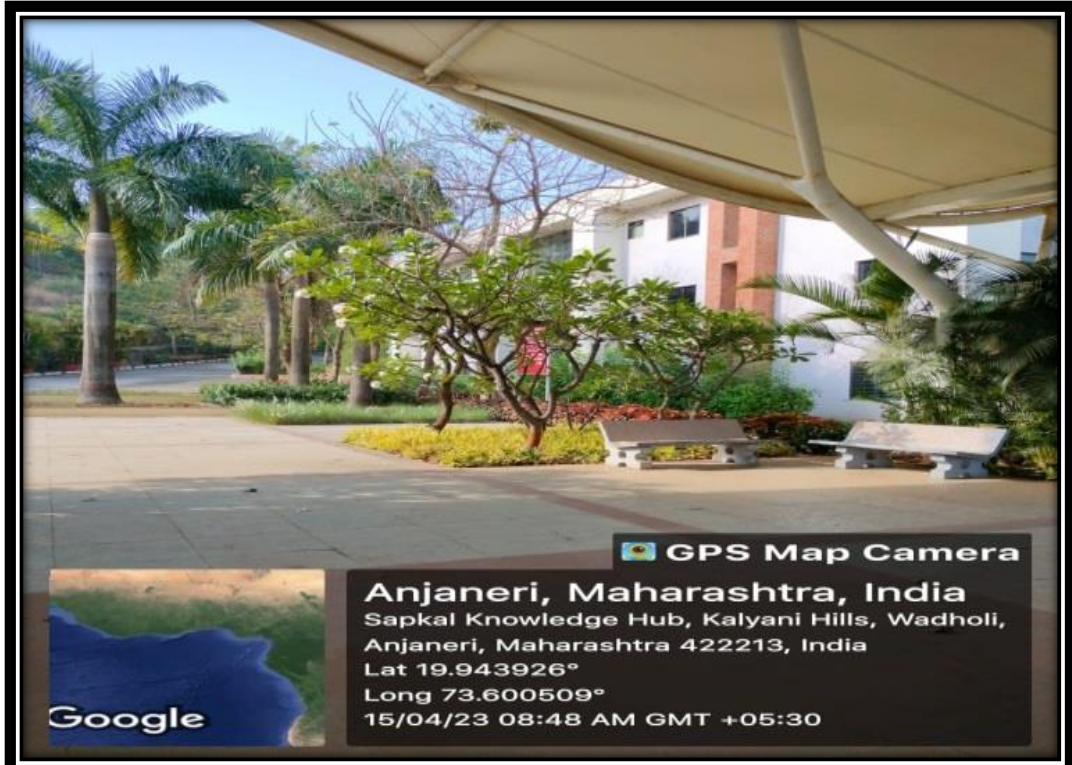
Landscaping in the campus



Landscaping in the campus



Landscaping in the campus

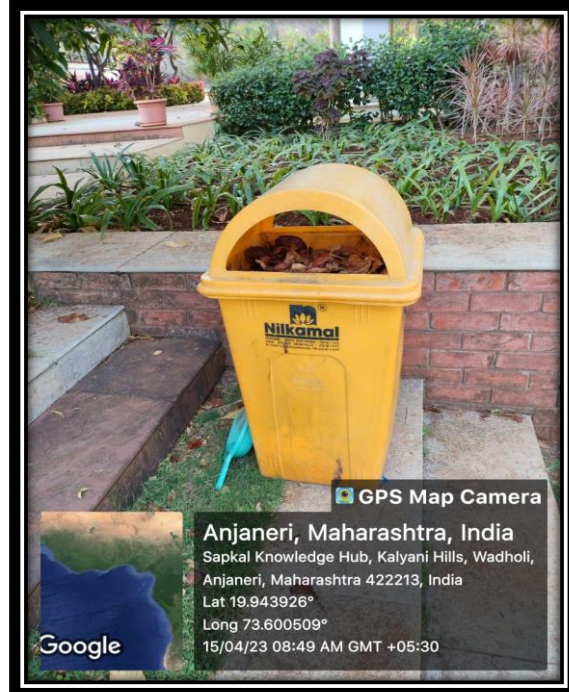


Trees in the Campus



Chatrapati Shivaji Maharaj Vanashree Award

4.3 Segregation of Solid Waste



Dustbins for collection of Solid waste



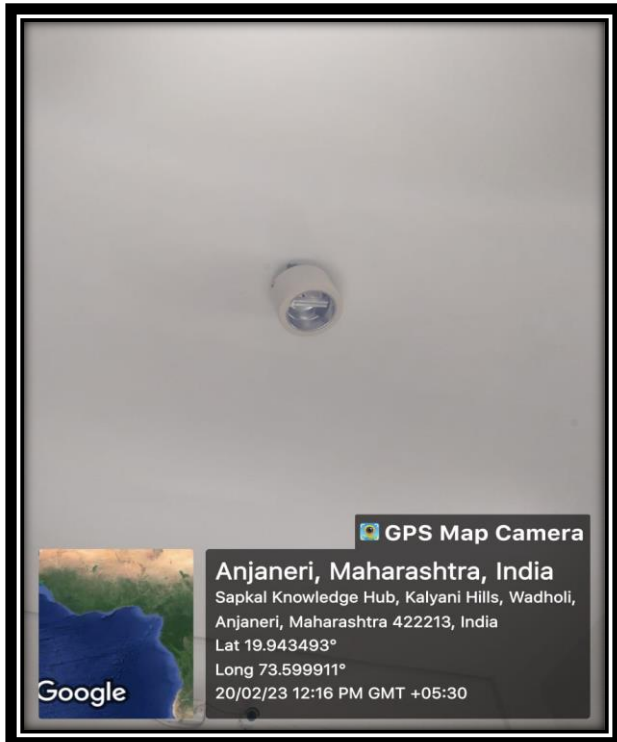
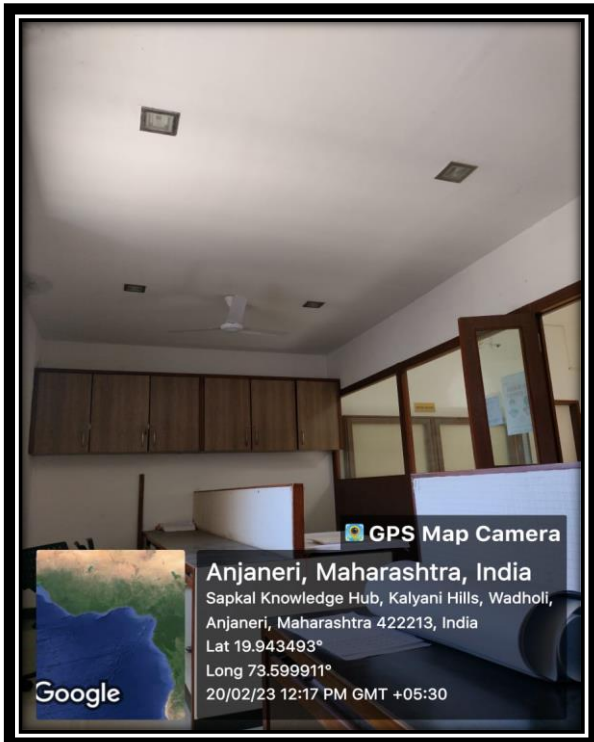
Segregated food waste in canteen

4.5. Utilization of solar power



Solar Water Heater in the campus

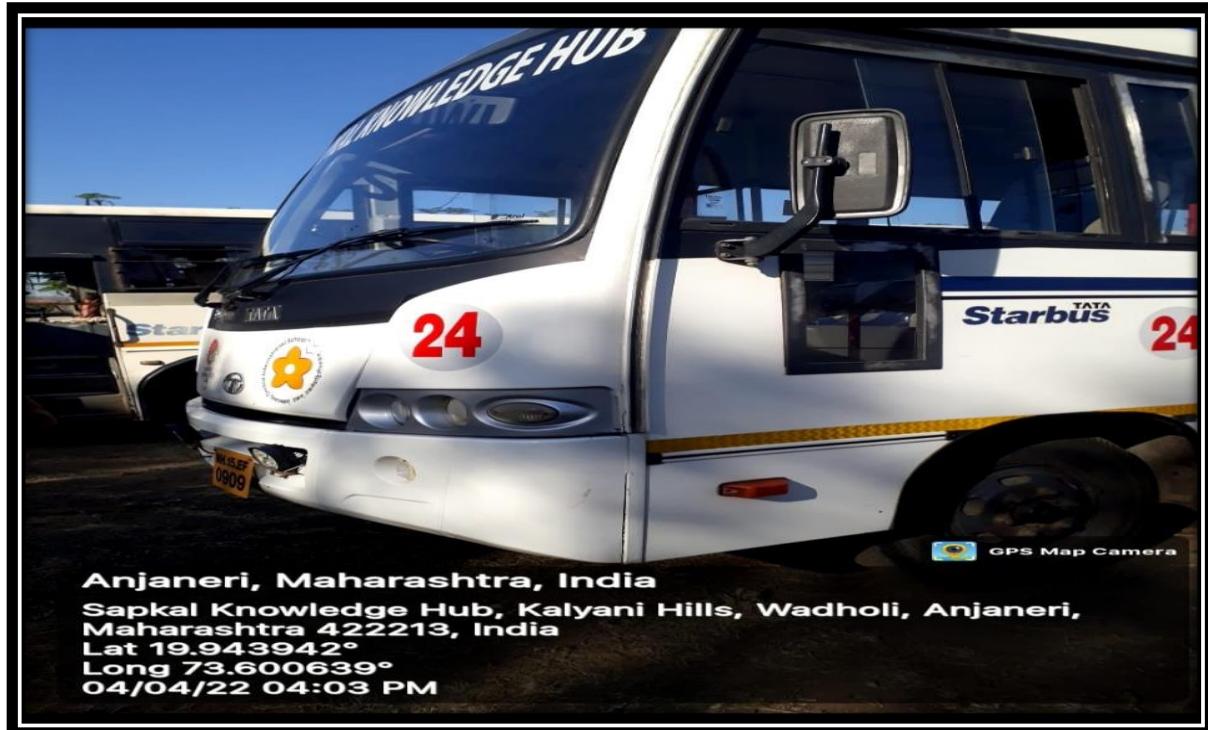
4.6. Use of Light Emitting Diode (LED)



LED bulbs

4.7. Transport facility

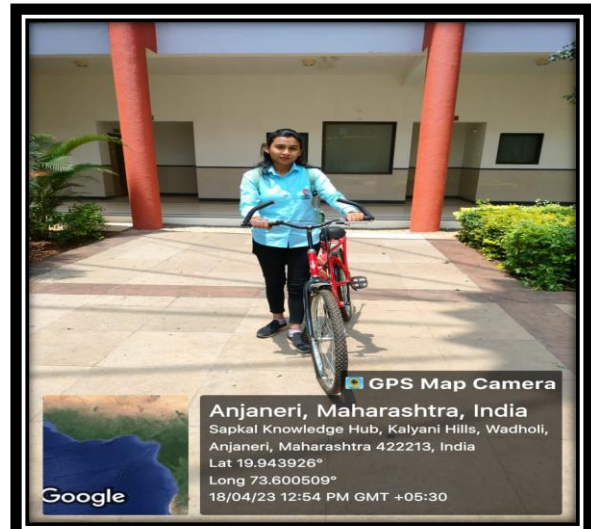
The institute has more than 25 buses & 5 passenger vehicles for transportation. The students are charged reasonably and staff members are provided free transport facility to discourage them from using their own vehicles. Institute reduces use of private vehicles by providing transportation facility.



Bus Facility

4.8. Use of bicycles/ Battery-powered vehicles

Bicycles: The institute has provided free bicycles in the campus for the residential students and staff.



Use of Bicycles in the campus



Bicycle

4.9. Tree plantation in the campus



Tree plantation

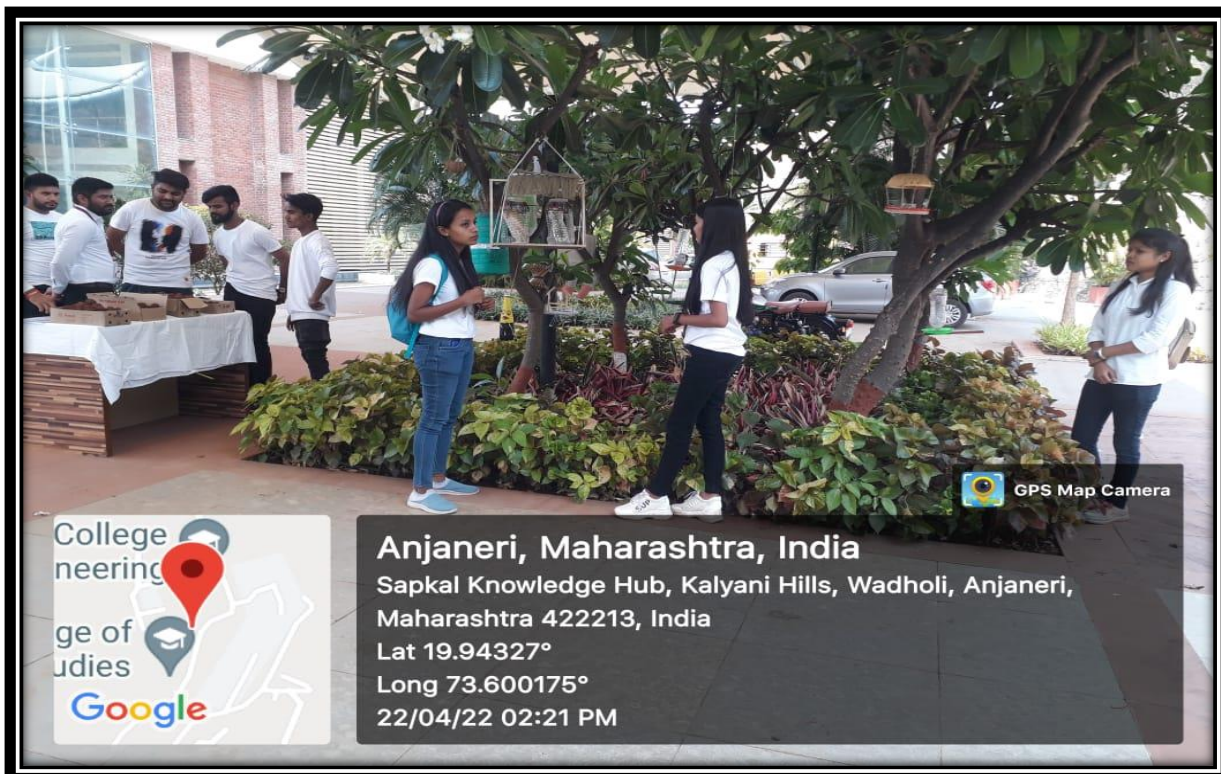


Tree plantation

4.10. Promote to Use of eco-friendly material from various activities.

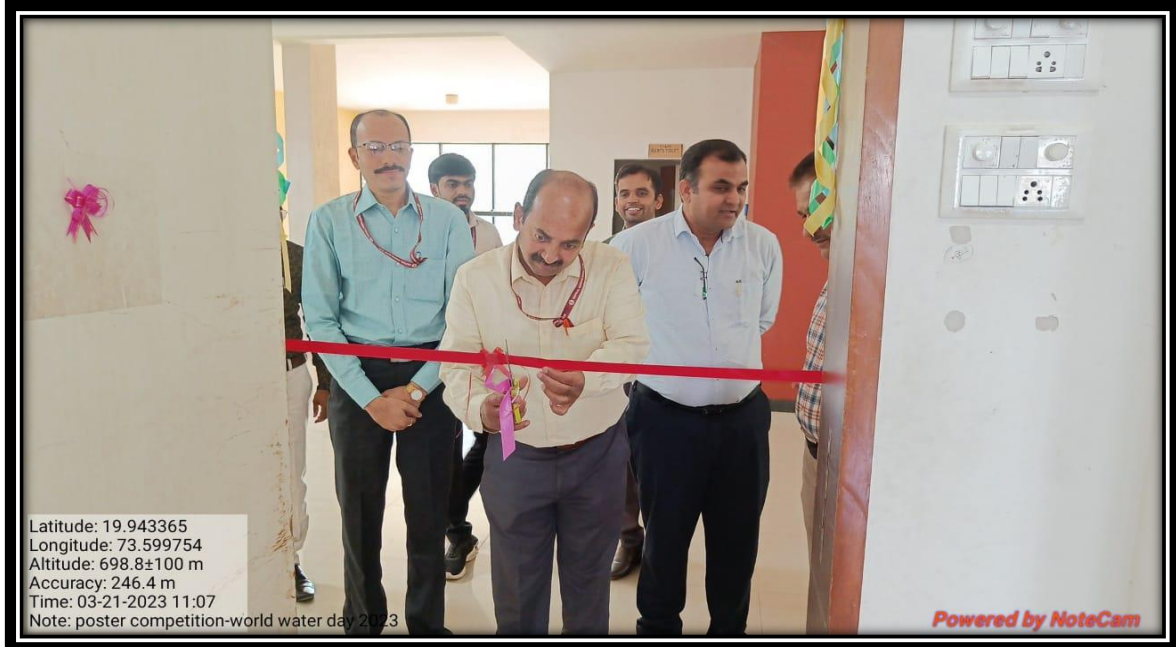


Bird feeder made by students from eco-friendly material

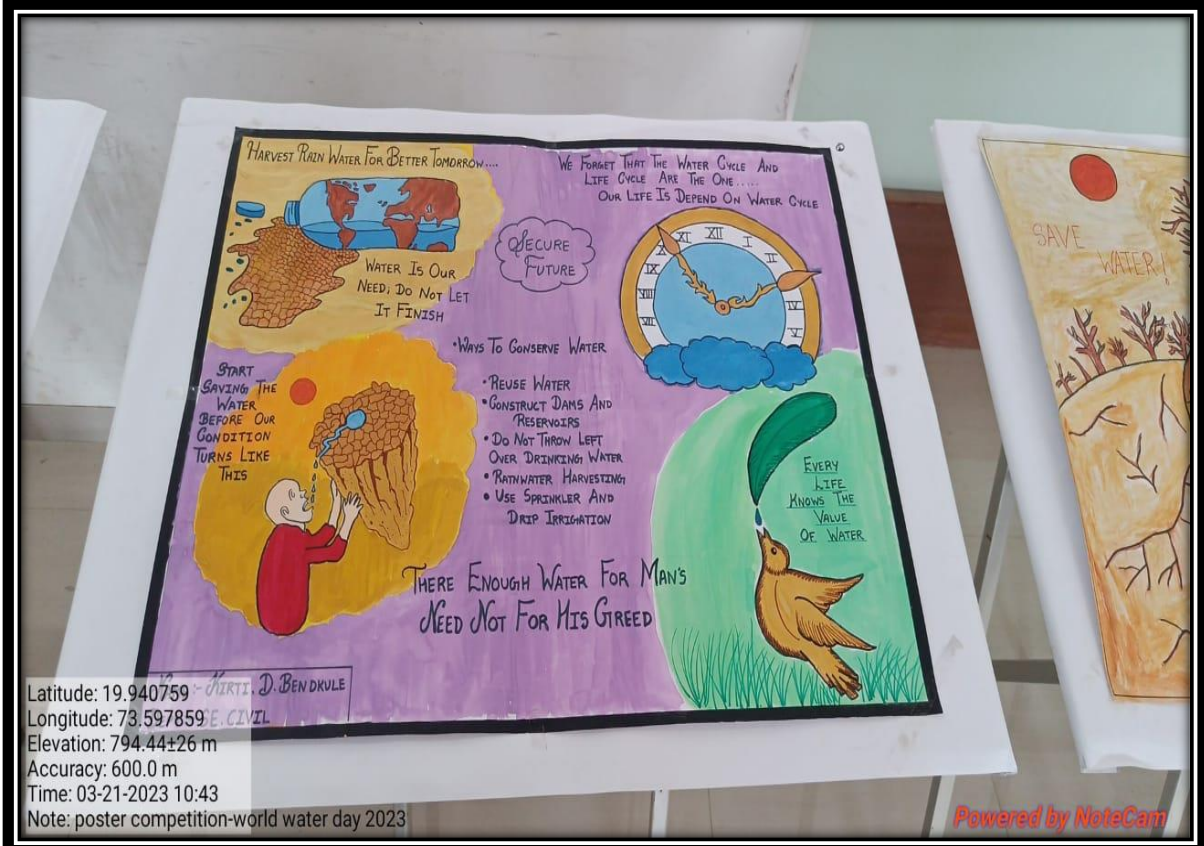
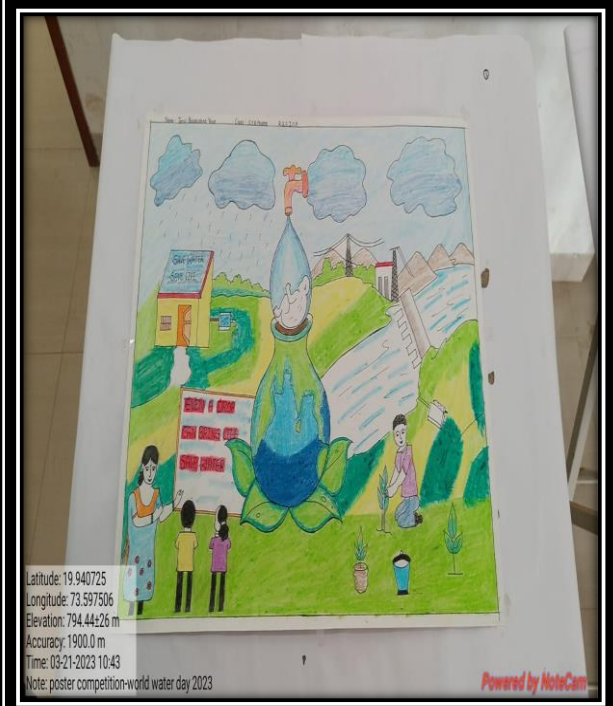
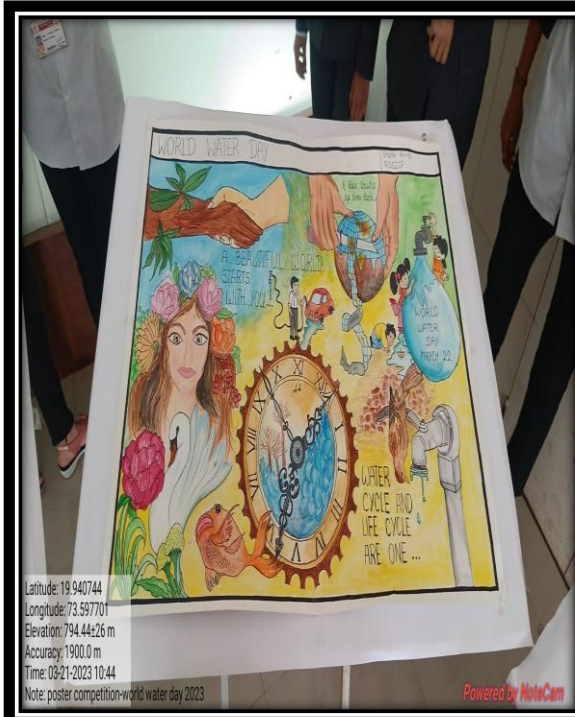


Bird feeder made by students from eco-friendly material

4.11. Poster competition for Creating awareness of environmental sustainability and saving water among the students.







Posters on Environmental Awareness

4.12. Plastic free campus and Alternate Measures to minimize Use of Plastic

Ban on use of plastic: Instructions are displayed at various locations so that the campus remains plastic free. The institute has also designed their own paper and cotton bags and motivates the faculty and students to use them instead of plastic ones. Alternative measures of use of glassware instead of plastic in cafeteria and use of paper files instead of plastic files.



Boards of ban on use of plastic in campus

❖ Ban on Use of Plastic- Alternate Measures



Usage of glassware instead of plastic in cafeteria



Usage of Cotton Bags instead of plastic bags

5. Disabled – friendly, barrier free environment

Our institute is taking an effort to enhance the healthy, disabled-friendly, and barrier free built environment of LGNSCOE.

The focus of our institute is on policies like:

- Provision of guiding desks for enquiry and information by human assistance, reader, scribe.
- The design of campus with provision of facilities like ramp for disabled students.
- Setting up the proper text and pictogram signage such fire exit, lights, notice boards and signposts.
- The use of signage of male and female symbols, in accordance with standard specifications.
- The college ensures provision of accessible, gender-sensitive, safe, usable and functional washroom facilities for disabled students (Divyangjan)
- Provision of wheel chair, vehicles and equipment's for employees and students as per their requirement.
- Scribes and additional time at the time of examination as per norms.

4.2 Ramps



Ramp for easy access Main Engineering, Admin Building

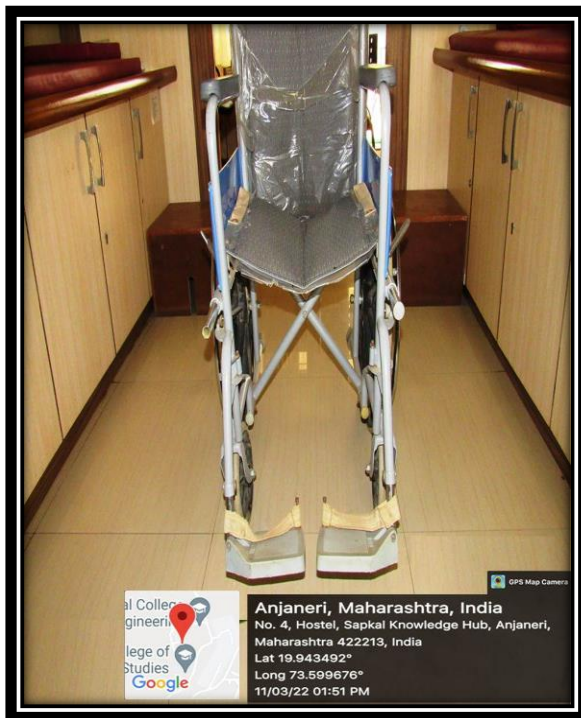


Ramp for easy access to classrooms near Mechanical and Civil engg. building



Ramps for easy access to classrooms near Electrical Engg. Building

4.3 Wheel Chairs



Wheelchair for disabled persons

4.4 Disabled Friendly Washroom



Washroom for disabled persons

4.5 Pedestrian-friendly pathways

Pedestrian friendly pathways: The internal roads in the campus are wide and clean, flanked with flower beds and have negligible vehicular movement.





Pedestrian friendly pathways in the campus

4.6 Signage including tactile path, lights, display boards and signposts





Signboards in the campus

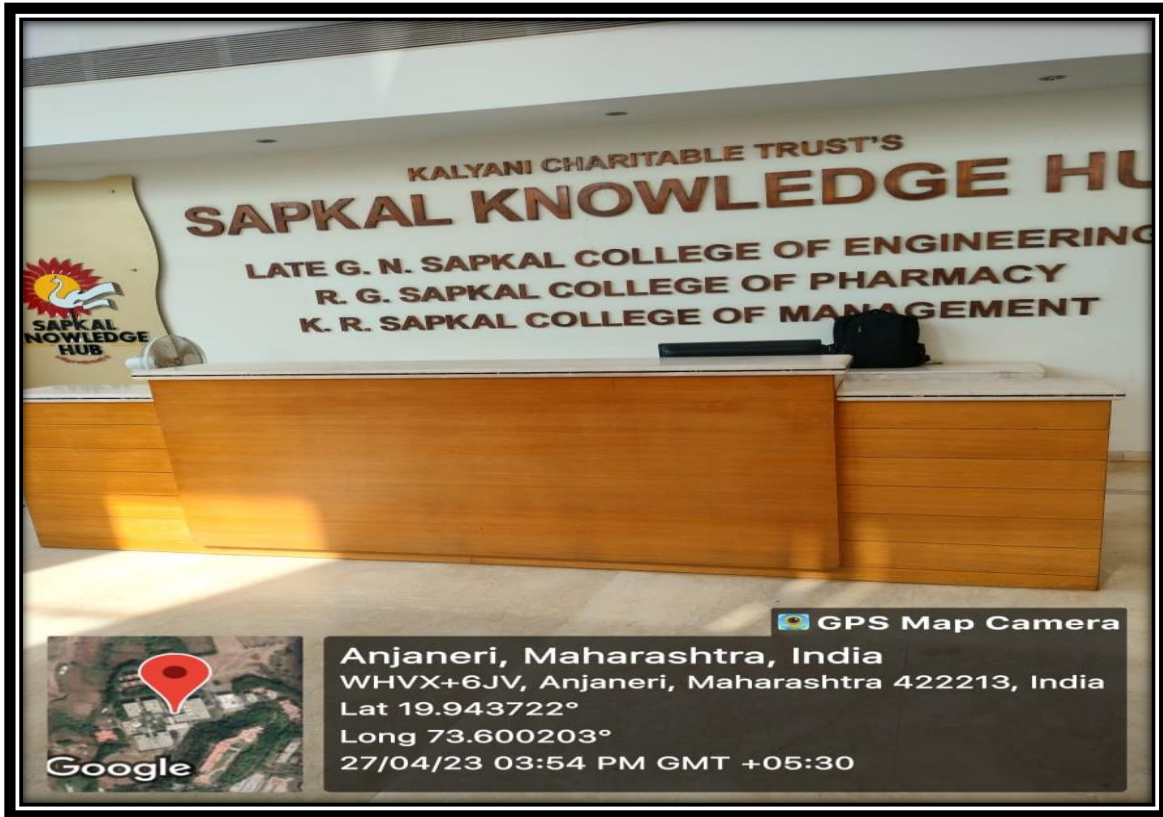


Signboards

4.7 Enquiry and Information Desk



Enquiry and Information Desk



Reception