

ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY (Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai) ANGUCHETTYPALAYAM, PANRUTI – 607106.

#### 7.1.2 The Institution has facilities and initiatives for

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ii	LED Bulbs	
iii	LCD Monitors	
iv	Power Efficient Equipment - Refrigerator	
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iii	Ban on Use of Plastic	
iv	Landscaping with Trees and Plants	
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ii	Wheel Chair	

Dr. R. AROKIADASS, M.E., Ph.D., Principal, St. Anne's College of Engineering & Technology, ANGUCHETTYPALAYAM, Siruvathur-(Post), Panruti-(T.k), Cuddalore-(Dist), Pin: 607 110.

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# 1. Alternate Sources of Energy and Energy Conservation Measures

#### i. Solar Energy

Solar energy is a renewable source of energy and it is an inexhaustible and affordable form of energy. It can be used to cook food, heat water and generate electricity. Furthermore, electrical energy generated from solar energy can be stored in solar cells.

In order to promote Renewable Energy Consumption in our Institution, a Solar Roof top PV (on grid) has been installed for generating 600 Watt on the roof top. This solar energy generation is completely used for street lights and pathway lights on the campus.

Number of panels	20		
Rating of panel	: 600W, 12Volts		
Configuration of panels	: 20 Panels, L Structure		
Battery	: 12 volts 300AH		
Inverter and its capacity	: 1 Inverter, 650W		
Daily production	: 70% of 3Units		
Average generation (monthly)	: 100 Units		
Number of Street Lights: 22, each light 15W			





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**Street Lights** 





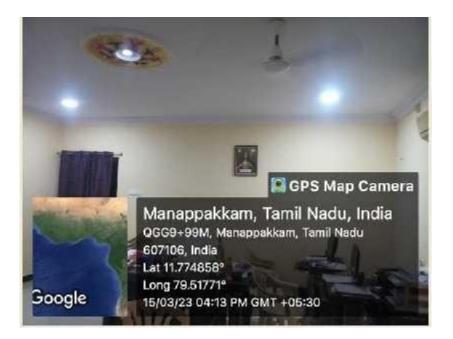
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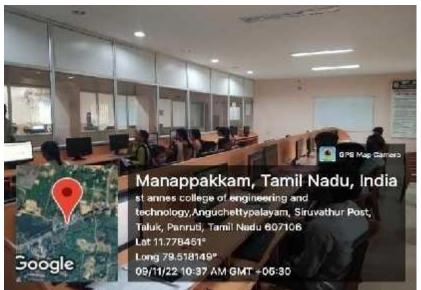
# ii. LED Bulbs

St. Anne's College of Engineering and Technology has the following facilities for conserving energy. The CFL fittings of higher wattage are replaced with the 65 numbers of LED fittings of lower wattage with the same luminous level for the Street Lights on the campus to promote the efficient utilization of energy. CRT monitors are upgraded with 376 numbers of LCD Monitors. A refrigerator is a key appliance in every kitchen. As the power consumption of Five Star Rating Refrigerator is low and it is more energy efficient, it has been installed in the Institution.

# **LED Bulbs**



# **LCD Monitors**





# **Power Efficient Equipment - Refrigerator**



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# 2. Management of the various types of Degradable and Non-Degradable Waste

# i) Degradable, Non- Degradable, Bio -medical dust bin and Plastic waste Dust Bins

In order to collect degradable and non-degradable waste, separate bins are kept in 7 places on the campus.







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Bio-medical waste is dumped into separate bins and disposed off frequently.



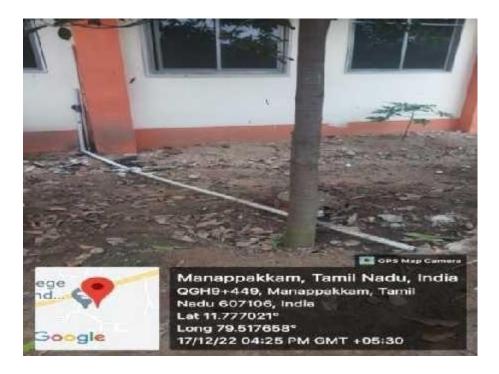
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#### ii) Liquid waste

Liquid waste is directed to the gardens in the campus for watering the plants.





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#### iii) E-waste

E-wastes such as malfunctioning, damaged circuit boards, keyboards, monitors, mouse, printers and headphones are collected in separate bins. The Institution has signed an MOU with Sri Bala Computers, Panruti, to provide E-Waste Management service.



#### iv) Metal scrap

Metal scrap, metal cuttings waste, bars, rods, sheets, damaged steel chairs, etc are collected in the separate room at manufacturing technology laboratory. The Institution has signed an MOU with Kavinila Waste Paper Mart to provide waste management service.

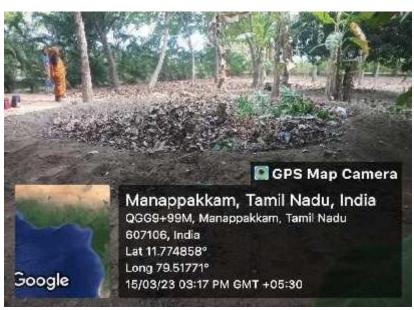


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# v) Compost pit

The mass collection of the biodegradable organic waste is dumped into the compost pit and it is used as manure to the plants on the campus. The size of the compost pit is 250 square feet.



#### **Compost Pit**

### vi) Leach pit

The inorganic waste such as chemicals is safely disposed into the earthen pits with safety precautions.



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# vii) MOU with Waste paper mart

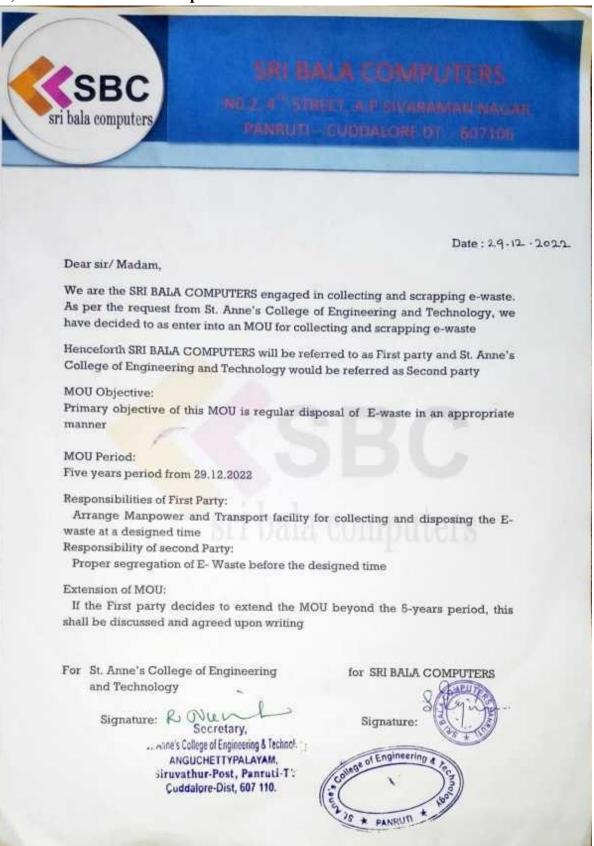
The Institution has signed an MOU with a local waste paper mart to provide Solid Waste Management service. The purpose of this agreement is to collect waste papers, Plastic (Water Bottles, Polythene sheets, carry bags, Pet bottles, CPVC material), Metal waste (Iron scrap, condemned iron and other metals) and vehicle waste tyres.

	en Sree Kavinila Wast Paper Mart ngineering and Technology for Providing Solid
	lanagement Service- Reg.
Wast Paper Mart (solid manage	sents a service legal agreement of MOU Kavinila ament service provider) and ST. Anne's College of aguchettypalayam date from 12.12.2022 onwards.
and remain in force for a period	come effective from the date of the last signature of five (5) years with the understanding that it may ution at any time by written notice to the other
and recycling of waste Paper, bags. Pet bottles, CPVC mater other metals) and vehicle waste	eement is to facilitate to collect, transport, handle Plastic (Water Bottles, Polythene sheets, carry ial), Metal waste (Iron scrap, condemned iron and tyres. The agreement of solid waste management g, Recycling and Disposal services necessary for
You are requested to counter sig Thanking You	m this contract as token of your acceptance.
For. Kavinila Wast Paper Mart	For ST. Anne's College of Engineering and Technology
Signature : M. Swelenner, Date : 12 12 2022	Signature : & Num Secretary, Date St Anne's College of Englishering & Technology ANGUCHETTYPALAYAM, Siruvathur-Post, Panruti-TV
	Cuddalore-Dist, 607 110.



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#### viii) MOU with Sri Bala Computers





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### 3. Facilities and initiatives for Water Conservation

#### i) Rain Water Harvesting

Rainwater harvesting available near Annai Annammal block in order to make the Institution self-sufficient in water resources and increase ground water level, not only for domestic use but also for improving the green belt, particularly the lawn and the garden. The rooftop rain water is directed to reach our gardens on the campus. Roof top rainwater can be harvested through recharge pit. The harvesting system consists of a gravel layer of around 10cm, followed by a charcoal layer of 10cm. Then, a sand layer of 25cm is made available, which is then followed by gravel layer of 25cm.











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### ii) Bore well Recharge



The bore well is located near the library premises. The bore well is recharged effectively by rain water harvesting. The bore well on campus is used to replenish rain water. The water level rises when the bore well are recharged.

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#### iii) Construction of Bunds

The bunds were used to retaining moisture/water on sloped ground, providing access to fields. Bunds slow down water flow on the ground surface and encourage infiltration (groundwater recharge) and soil moisture.



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### iv) Waste Water Recycling - RO & Hand washing

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The waste water from the RO plant and the water cooler is used for watering the butterfly garden.





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#### v) Supply of Water System

An RO plant has been installed at the Administrative Block of the Institution. The purified RO drinking water is distributed to all the blocks equipped with water cooler. Hence, everyone can enjoy the drinking water facilities immediately whenever they are in need. Also, wash basins are available at each block. Water facilities are available on the entire campus without any interruption. The RO plant is periodically cleaned and maintained in a good condition by the Maintenance Department. All the water tanks are cleaned regularly once in six months.



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# Administrative Block [Ground Floor]



# Administrative Block [First Floor]







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**Library Block** 



Xavier Block [First Floor]

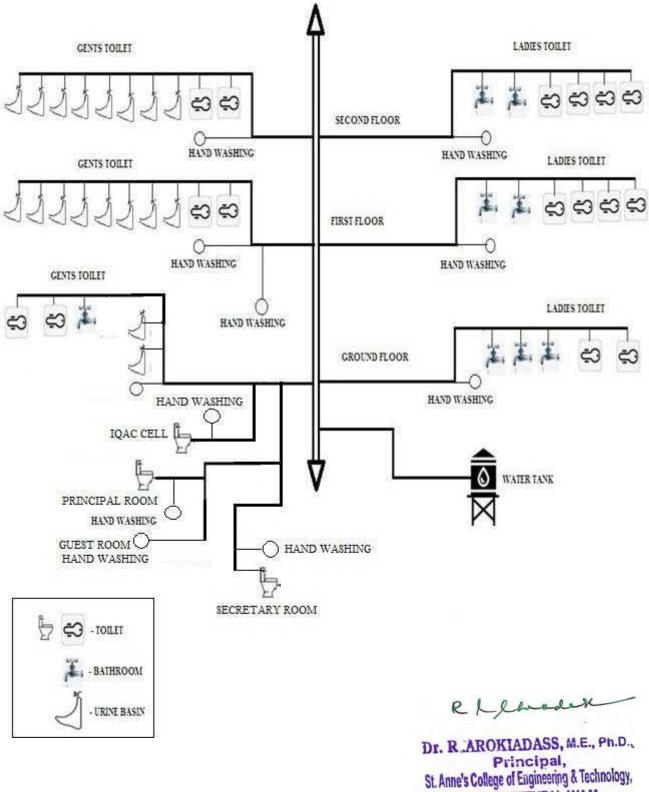


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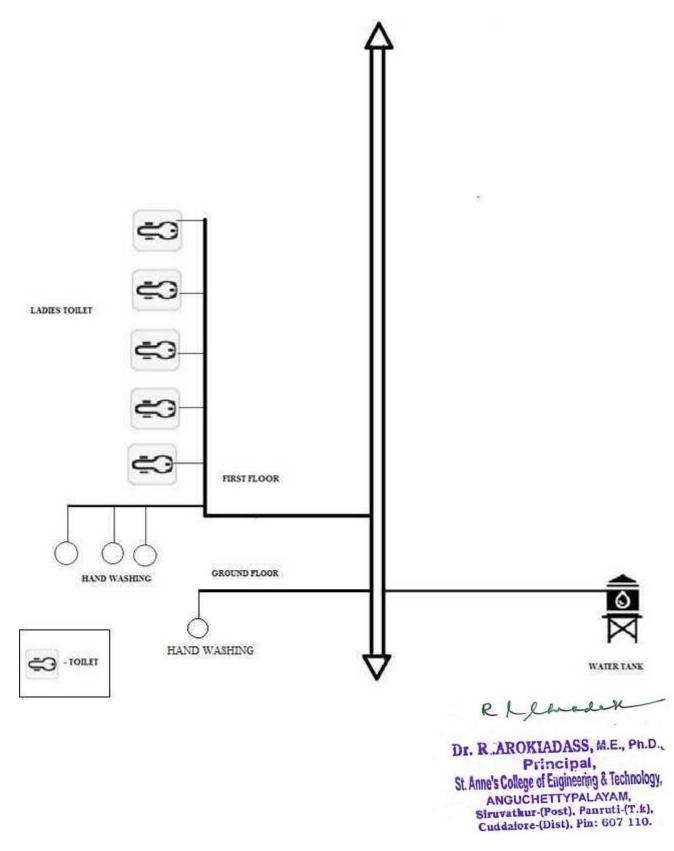
# Distribution of Water Supply – General Purpose Administrative Block Water supply



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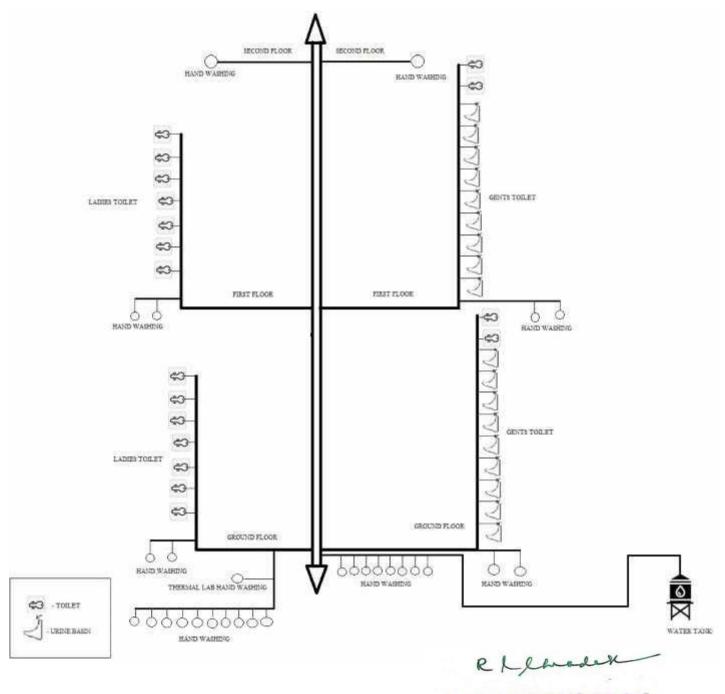


**Annai Annammal Block Water Supply** 



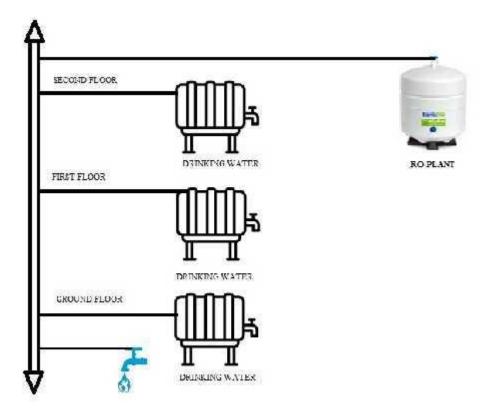


Xavier and Maria Block Water Supply





# Administrative Block Drinking Water Supply



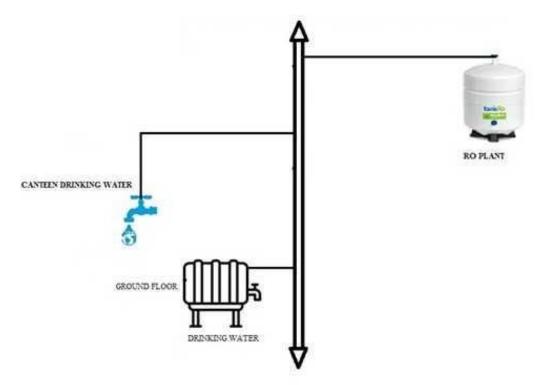
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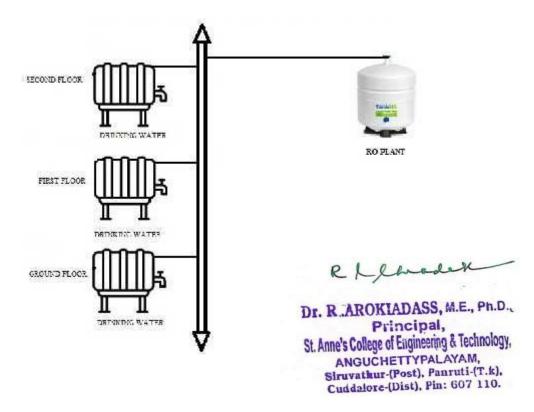


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#### Annai Annammal Block Drinking Water Supply



### Xavier and Maria Block Drinking Water Supply





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# 4. Green Campus Initiatives

#### i) Restricted Entry of Automobiles

• Entry of automobiles is restricted using barricade.



- A specific area for students to park their vehicles is available.
- Students staying at hostel must get special permission for keeping their vehicles inside the campus.
- All teaching and non-teaching staff members should park their vehicles in the specified parking area.
- Security personnel at the main gate restrict public vehicle entry into the campus.

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# ii) Pedestrian-Friendly Pathways

• All roads on the campus are pedestrian-friendly as vehicle movement is limited on the campus.





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#### iii) Ban on the Use of Plastic

• The campus is made plastic-free. Awareness on the reduction of plastic usages has been created to both students and staff members through the sign boards in various places. Separate dust bins are kept in all the main places on the campus to collect the plastic waste.



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# iv) Landscaping with Trees and Other Plants

• All the buildings in the College campus are surrounded by 88 verities of trees, flowering and nonflowering plants. Plants are grown on both the sides of the roads which connect the blocks to make the entire campus an environment - friendly place. Leaf litters under the trees are removed everyday to maintain the campus clean and healthy. We maintain the butterflies park in front of the Administrative block and Avian Park is near Annai Annammal Block.











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#### CIRCULAR

#### CIR.No. : SACET/NSS/CIR/C06

#### Date: 04.11.2019

It is to be informed that Programme on **"TREE PLANTATION PROGRAM"** will be conducted on 06-11-2019 in our college campus arranged by our NSS Program Officer.

The concerned departments NSS volunteers and staff s are requested to attend without fail.

#### Copy to:

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- 1) Secretary
- 2) Vice principal
- 3) All HODs
- 4) Administrative Officer
- 5) Hostel
- 6) Library
- 7) File

q. 11 2019 PRINCIPAL

Dr. R. AROKIADASS, M.E., Ph.D., Principal, St. Anne's College of Engineering & Technology, ANGUCHETTYPALAYAM, Siruvathur-(Post), Panruti-(T.k), Cuddalore-(Dist), Pin: 607 110.

FILE NO .: SACET/NSS/FIL/06

REV.NO.00

EFFECTIVE DATE: 06. 10. 2017



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• A "Tree Planting Programme" was organized on the 6th November, 2019 at the College bus stop. Our Secretary, Rev. Sr. Dr. Y. YesuThangam, our Principal, Dr. R. Arokiadass, our Vice-Principal, Sr. Punitha Jilt, and our Administrative Officer, Sr. Rose Mary, planted the saplings on the campus. Dr. A. John Peter, HOD/S&H, NSS Staff Members and NSS Volunteers also planted the saplings enthusiastically on the campus and around the campus and at the College Bus Stop.



Tree Planting Programme on the 6.11.2019



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> CIRCULAR (2021-2022)

CIR.No: SACET/NSS/CIR/C03

Date: 23.9.2021

It is to inform that NSS team organizing a programme on "NSS DAY CELEBRATION -Tree Plantation and Campus Cleaning" on 24.9.2021 in our college campus. In this regard, we invite all our faculties and NSS volunteers to attend this programme without fail.

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NSS PROGRAM OFFICIER (J RAMESH)

PRINCIPAL

Dr.R.AROKIADASS, M.E., Ph.D., Principal, StAnne's College of Engineering & Technology. ANGUCHETTYPALAYAM, Sirnwathur-(Post), Fauruti-(T.k), Consultore-(Dist), Pin: 607 110.

FILE NO.: SACET/NSS/FIL/06 REV.NO.00

EFFECTIVE DATE: 06. 10. 2017



St. Anne's College of Engineering and Technology successfully completed the event of "Tree Planting and Campus Cleaning" under the National Service Scheme (NSS) on the college campus on Friday, the 24th September, 2021, which is celebrated as "NSS Day". We need oxygen for our life and trees are the foremost source of oxygen. Furthermore, trees help reduce the level of CO<sub>2</sub>. We all know that the whole world is facing the problem of global warming. In order to recover from such a problem, planting trees has become one of the most important aspects of today. The event was begun with the Welcome Speech by the NSS Officer, Mr. J. Ramesh, AP/EEE, and then we all moved towards the place where planting trees took place. First of all, our Secretary, Rev. Sr. Dr. Y.YesuThangam, planted a tree in our College premises and then our Principal, Dr. R. Arokiadass, planted a tree. Our Vice-Principal, Sr. Punitha Jilt, also planted a tree. The total number of trees planted by all others including the staff members, volunteers and students was more than 100 on the day. Then, all the NSS Volunteers and students were engaged in campus cleaning programme. The NSS Officer divided the NSS Volunteers into several groups. Members from each group were allocated with a particular area for cleaning. Three groups were asked to collect all the stonesfrom the ground separately in different sacs. The degradable organic waste such as dry leaves and twigsand non-degradable waste such as carry bags and other plastic items were collected separately. The collected degradable waste was burnt. At the end, the NSS Volunteers were happy and they were very proud of planting trees on the campus.



Students Planting Trees on 24.09.2021



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Students Planting Trees on 24.09.2021

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# 5. Disabled-friendly, barrier free environment

#### i)Ramps

Now a day, students have to attend the classes most days of the week. If there is no ramp leading up to different building on the campus, the physically challenged students suffer a lot. Paying more attention to this problem, SANCET has constructed ramps with access steps to class rooms, library, laboratories, etc. in all the blocks.



Administrative Block

# ii) Wheel Chair

SANCET provides a manually operated wheel chair for physically disabled persons. It is used by individuals who have impairments that limit their ability to walk.



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