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SANTHIRAM COLLEGE OF PHARMACY

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GREEN CAMPUS INITIATIVES

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CHAPTER -1: Foreword of the Institution

Motto of our institution in maintaining Green Campus. It is a place where environmental friendly practices and education combine to promote sustainable and eco-friendly practices in the campus. The green campus concept offers an institution the opportunity to take the lead in redefining its environmental culture and developing new paradigms by creating sustainable solutions to environmental, social and economic needs of the mankind.

Greening the campus include removing unnecessary inefficiencies and using conventional sources of energy for its daily power demands, as well as proper disposal management, the purchasing of environmentally friendly products, and an effective recycling programme. The Institute must devise time-bound methods for implementing green campus activities. These measures must be implemented into institutional planning and budgeting procedures in order to create a clean and green campus.

Major Green campus Initiatives are:

- ➤ Battery powered vehicle for campus ride
- > Rain water Harvesting
- ➤ Maintenance of Medicinal Garden
- Effective implementation of wet and dry disposal wastage
- ➤ Use of LED resources
- Digital Library/ e-learning centre
- > Restricted entry of vehicles
- Restricted Parking
- > Sewage treatment Plant
- > Usage of battery vehicles and public transport
- Pedestrian friendly Road
- > Paperless office
- ➤ Plastic free campus
- Plantation of Trees



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CHAPTER -2: INTRODUCTION TO THE CRITERION

A Green Campus is a campus where environmentally friendly actions and education work together to promote sustainable and eco-friendly activities. The green campus idea allows an institution to take the lead in reinventing its environmental culture and forging new paradigms by finding sustainable solutions to the world's environmental, social, and economic requirements. To make SRCP a pollution-free, energy-saving green campus, we implement and maintain the following standards and regulations.

GREEN CAMPUS POLICY

1. Restricted entry of vehicles

- All the vehicles of college staff/ faculty members should be getting the emission certification before entering the vehicle in college campus.
- The college encourages the employees and students to frequently use public transport, bicycles, etc. to limit the emissions.

2. Use of Bicycle/ battery powered vehicles

- College uses the Battery-powered vehicles for in- house transport.
- All electricity use within a new building space maximizes the use of renewable energy.

3. Pedestrian-friendly pathways

- SRCP campus follows the Pedestrian-friendly pathways in all the buildings.
- Pedestrian-friendly pathways are properly marked with suitable logo/sign.

4. Ban on use of Plastic

- The college continuously committed to work towards plastic-free campus.
- In the SRCP campus there is complete ban on single-use plastics in class room, labscanteens in the institution's premises and hostels.

5. Landscaping with trees and plants

- As per the green practices in the campus SRCP is moving in the direction of a GreenInstitution in Uttarakhand planting more trees with in and outside the campus.
- Medication plants and more fruit plants and trees have been planted to clean the atmosphere.



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6. Paperless office

- Institute has ERP system, whatsapp groups for official communications and uses electronic media like E-mails for outside communication.
- Faculty and students are advised to take print on both sides of the paper and use the single side waste paper for rough works

7. No Tobacco zone

- Institute declared the campus as tobacco free zone since its inspection by restricting the sale of all forms of tobacco and its items. Signboards are displayed in the campus.
- Awareness programs on health issues by the consumption of tobacco are regularly organized by the NSS unit.

8. Digital Library/E- Learning

- Maintaining softcopies of academic books other relevant content, and membership in various E- journals.
- Providing more readout materials in softcopy and sharing through E-mails and whatsapp groups.

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BATTERY POWERED VEHICLES IN THE CAMPUS

With this initiative, SRCP adopted a green culture and also promotes a greener ecosystem along with providing a pollution-free atmosphere to the residents inside the campus.

SRCP is committed towards building a green campus. It has achieved a fairly good amount of success in this endeavor through massive plantation drives, cycling culture, rainwater harvesting, and the same will continue. With the installation of electric vehicles inside the campus, SRCP islooking forward to going one step ahead on lines with the Govt of India which has been working aggressively on promoting new and renewable sources. The SRCP members can avail this as a means of transportation and it is helpful to all the residents in the campus.

Benefits:

1. Better for the environment

Less pollution: Usage of this vehicle helps to reduce harmful air pollution from exhaust emissions. An EV has zero exhaust emissions.

Renewable energy: If we use renewable energy to recharge the vehicle, we can reduce the greenhouse gas emissions even further.

2. Health benefits

Reduced harmful exhaust emissions is good news for our health. Better air quality will lead to less health problems and costs caused by air pollution. These vehicles are also quieter than petrol/diesel vehicles, which mean less noise pollution.

3. Safety improvements:

Usage of these vehicles are more safer than petrol or diesel engines with respect to safety features

4. Our energy security

On a national level, EVs can help with India's energy security. At present, India is highly dependent on other countries for petroleum imports. EVs are easy to power from local and renewable energy sources, reducing our dependence on foreign oil.



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Fig.1.Battery Vehicle in the campus



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Landscaping Trees:

Green Landscaping with Trees and Plants – the campus is beautifully landscaped and has received appreciation in form of many awards and certificates. Plantation of around 1000 plants has been done including a number of exotic plants. Activities like Plantation on World Environment Day, Harithaharam and various awareness programs & events every year. A rich variety of flora and fauna predominates the natural landscape of the campus. Exotic fruit trees are also planted in the campus.

SRCP is also received certificate from Mahatma Gandhi National Council of Rural Education, Department of Higher education, Ministry Of education Govt. of India which is an initiative to train students in maintenance of clean and green campus. Recycling and reuse of waste in campus is encouraged through Sewage Treatment Plant and vermin composting.



Certificate



Certificate Number: MGNCRE SAP AP HEI JNTUA 030

This is to certify that Santhiram College of Pharmacy, Kurnool, A P is now a Recognized Swachhta Action Plan Institution. The Institution has successfully formed the Swachhta Action Plan Committee and constituted the working groups Post COVID-19 for Sanitation & Hygiene, Waste Management, Water Management, Energy Management and Greenery along with the observation of two environment related days to inculcate in faculty, students and community, the practices of Swachhta and Reduction, Reuse and Recycling of Resources.

Dr. W G Prasanna Kumar Chairman



Mahatma Gandhi National Council of Rural Education Department of Higher Education, Ministry of Education Government of India



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Recognized SAP (SWACHHTA ACTION PLAN) Institution Ministry of Human Resource Development Government of India

Date: 12 Aug 2020

		putt. In ring non
1.	Name of Institution	SANTHIRAM COLLEGE OF PHARMACY
2.	Address of the Institution	NH-40, NERAWADA, PANYAM (Mandal), Kurnool
3.	Affiliated to University	JNTU Anantapur
4.	Name of Principal/Head of the Institution	Dr.C.Madhusudhana Chetty
5.	Contact Number (WhatsApp Number)	+919502526901
6.	E Mail ID	drcmchetty@gmail.com/srcp07hc@gmail.com
		A STATE OF THE PROPERTY OF THE

Proposed Swachhta Action Plan Activities post COVID 19

**	SAP AREA	PROPOSED ACTIVITIES FOR THE TEAM	FACULTY COMMITTEE MEMBER NAME, CONTACT NUMBER, EMAIL
1.	SANITATION AND HYGIENE	Post COVID19 Sanitation Measures and Drill Clean and functional toilets (365x24) Safe drinking water (365 x24) Clean surroundings Clean buildings/rooms Planting local, resilient trees that ensure water table is not eroded	Mr.B.Venkata Ramana 9441760856 visitramana@gmail.com
2.	WASTE MANAGEMENT	Campus/Dept wise wasteaudit Campus/Dept wise waste segregation Reduction in waste, month-on-month Recycling waste (paper, organic waste form canteens and kitchens) Set up compost pit for recycling waste Ensure zero littering Ban plastic use in the campus Banflexibanners (Only cloth banners to be used) Paperless work — use of email, WhatsApp for communication	Mr.K.Sampath Kumar 9391393019 katakamsampath@gmail.com
3.	WATER MANAGEMENT	Audit of water sources in the campus Audit of monthly water use in the campus Audit of drinking water on campus (bottled water) Constructing/Increasing no. of Rain Water Harvesting pits in the campus Fixing leaky taps Recycling water (grey, brown and black) Activities for recharging dry borewells Constructing check dams (if needed/feasible)	Dr.NDVR.Saradhi 9618123118 SaradhiZu@gmail.com



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4.	MANAGEMENT	Audit of energy efficient heating, cooling, lighting and water systems in the campus Audit of building wise monthly use of electricity		
	CONTRACTOR (N	 Incentivize reduced electricity usage by depts/buildings 		
Date: 12 s novemer summers; see		Create short-term and long-term plan for the use of solar energy on the campus Constructing check dams (if needed/feasible) Cycles on the campus (reducing carbon footprints) Reducing carbon footprints via intelligent Purchase SoPs	Mr.D.Maheswara Reddy 9908068537 Dagadamahesh@gmail.com	
5.	GREENERY	Setting up a nursey	ex to allies.	-7-
	1	Setting up a seed bank	wild tracessor	
		Setting up a compost pit		
	RECOVIDERS	Researching trees that take up minimal water and are good for the ecosystem (local, resilient species)and planting them during monsoon and	Mr.N.Srinivasa Reddy 7780449456 sreesri.142@gmail.com&	
	cames T	taking care of them (Vanamahotsav)	Ms.B	.Mayuri
	- Secretar	Landscaping in the campus	9985018890	
	Security Security		han marrid	Down III anno
		New buildings on the campus will follow green building norms Use of organic manure for the plants	unayung	Pgmail.com
	will observe two o	building norms Use of organic manure for the plants f the following Environment Related Days to inculcate	e and internaliz	e in our faculty
stud	will observe two o	building norms • Use of organic manure for the plants	e and internaliz	e in our faculty
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stud two	will observe two o	building norms • Use of organic manure for the plants If the following Environment Related Days to inculcate ty, the practices of Swachhta and Reduction, Reuse and Day Day Day	e and internaliz Recycling of Re	e in our faculty
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stud two # 1. 2. 3.	will observe two of ents and community World Wetlands World Water Day Earth Day	building norms • Use of organic manure for the plants of the following Environment Related Days to inculcate ty, the practices of Swachhta and Reduction, Reuse and Day Day Day Day April	e and internalized Recycling of Recycling of Recycling of Recycling of Recycling of Recycling Re	e in our faculty
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stud two	will observe two o ents and communit) World Wetlands I World Water Day Earth Day World Environme No Plastic Day	building norms • Use of organic manure for the plants If the following Environment Related Days to inculcate ty, the practices of Swachhta and Reduction, Reuse and Day Day Day Day April ent Day July n Day July	e and internalize Recycling of Re	e in our faculty
stud two # 1. 2. 3. 4. 5.	will observe two o ents and communit) World Wetlands I World Water Day Earth Day World Environme No Plastic Day World Population	building norms • Use of organic manure for the plants of the following Environment Related Days to inculcate ty, the practices of Swachhta and Reduction, Reuse and Day Day Day Day Feb Mar April ent Day July n Day July 1st Monday of	e and internalized Recycling of Recycling of Recycling of Recycling of Recycling of Recycling of Recycling Rec	e in our faculty
stud two # 1. 2. 3. 4. 5.	will observe two o ents and communit World Wetlands I World Water Day Earth Day World Environme No Plastic Day World Population World Habitat Da	building norms • Use of organic manure for the plants If the following Environment Related Days to inculcate ty, the practices of Swachhta and Reduction, Reuse and Day Day Day Day Day Feb Mar April ent Day July n Day 1st Monday of Nov	e and internalized Recycling of	e in our faculty sources (tick an

DATE: 18 C XX



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Santhiran College of Frontmacy
NH-40, NANDYAL



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Fig. 2: Green Landscaping in campus



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Fig. 3: Medicinal Garden in the campus



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Fig.4: Plantation activity on World Environmental day

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RAIN WATER HARVESTING:

Water scarcity is serious problem throughout the world for both urban & rural community. Urbanization, industrial development & increase in agricultural field & production has resulted in overexploitation of groundwater & surface water resources and resultant deterioration in water quality. The conventional water sources namely well, river and reservoirs, etc. are inadequate to fulfill water demand due to unbalanced rainfall. While the rainwater harvesting system investigatea new water source.

In SRCP campus a rain water harvesting system is made. The runoff from the terrace of the college building is channelized into a recharge well located near the southern end of the academic block. The runoff from the unpaved area is intercepted at a collection trench. From here the runoff eventually drains into an abandoned open well, which facilitates groundwater recharge.

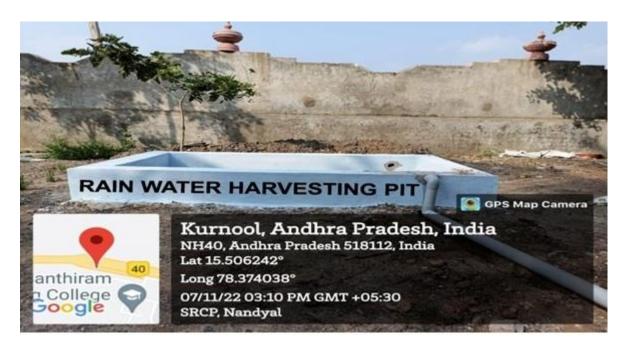


Fig.5: Rain water Harvesting Pit

(Collecting water through pipeline system



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DIGITAL LIBRARY/ E-LEARNING CENTRE

Library is computerized and automated by using the WEBPROS software. The software has open access to all students, scholars and faculty .Issue of books to staff and students through barcode system generated in web pros Software. In addition to this our Pharma.D students are much benefited using Micromedex Software for prediction of drug information and interactions. The user can get his/ her information on his own computer screen by using the Internet. It is a network of multimedia system, which provides fingertip access.

Online Journals	200
Online books	269
No. of Softwares provided to faculty and students	06

Outcomes of e- learning centre are:

- **1. No physical boundary:** The user of a digital library need not to go to the library physically, people from all over the world could gain access to the same information, as long as an Internet connection is available.
- **2. Round the clock availability:** Digital libraries can be accessed at any time. 24 hours a day and 365 days of the year.
- **3. Multiple accesses:** The same resources can be used at the same time by a number of users.
- **4. Structured approach:** Digital library provides access to much richer content in a more structured manner i.e. we can easily move from the catalog to the particular book then to a particular chapter and so on.
- **5. Information retrieval:** The user is able to use any search term bellowing to the word or phrase of the entire collection. Digital library will provide very user friendly interfaces, giving click ableaccess to its resources.
- **6. Preservation and conservation:** An exact copy of the original can be made any number of times without any degradation in quality.
- 7. Space: Whereas traditional libraries are limited by storage space. digital libraries have



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the potential to store much more information, simply because digital information requires very little physical space to contain them. When the library had no space for extension digitization is the onlysolution.

- **8. Networking:** A particular digital library can provide the link to any other resources of other digital library very easily thus a seamlessly integrated resource sharing can be achieved
- **9. Cost:** The cost of maintaining a digital library is much lower than that of a traditional library. A traditional library must spend large sums of money paying for staff, book maintains, rent, and additional books. Digital libraries do away with these fees.



Fig 6: SRCP Digital Library



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Fig 7: Delnet Software for e-library resources



Fig 7: MICROMEDEX Software for e-library resources



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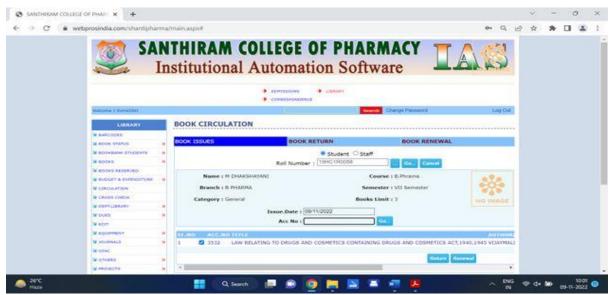


Fig 7: WEBPROS Institutional Automation Software for issue of books to faculty and student's

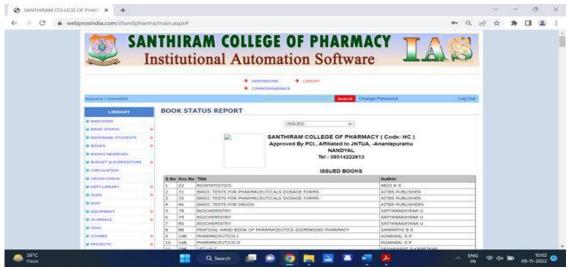


Fig 8: WEBPROS Institutional Automation Software for issue of book status verification



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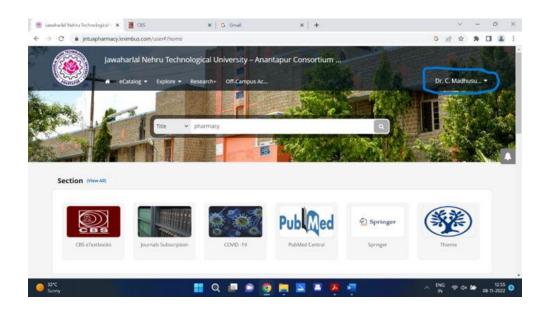


Fig 9: Knimbus Software for e-resources



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RESTRICTED ENTRY OF VEHICLES AND PARKING

In SRCP campus, entry of vehicles is restricted. All the vehicles are parked beside entrance of institution, to make our college area, pollution free and maintain greenery.



Fig 10: Vehicle Parking

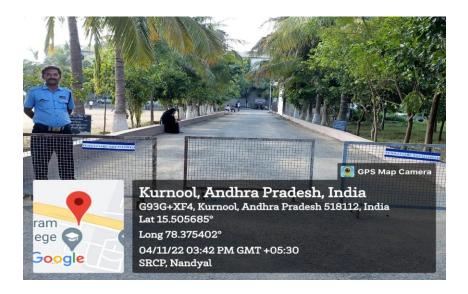


Fig 10: Restricted entry of vehicle at college



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MANAGEMENT OF WET & DRY WASTE:

Recycling bins are kept at different locations of SRCP Academic block, lab block, and computer centre and at hostels with a view to conserve energy, help the environment, reduce pollution, slow global warming and lower waste products in landfills. By recycling, people can have something to do with the earth's overall health and keep the air, water and land clean. Through recycling, less material are placed in the landfills, and there is more room in the landfills for non-biodegradable garbage materials.









Fig 9: Dustbins for waste segregation



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LED Utilization Resources:

As a step towards energy saving, total lightings of class rooms, labs and hostel are replaced with LED panels.

The outcomes of LED lights are as given below:-

- Long life. The components of an LED and the way that they generate light significantly extendthe lifespan of these bulbs. ...
- Energy efficiency. ...
- High brightness and intensity. ...
- Exceptional colour range. ...
- Low radiated heat. ...
- Reliability. ...
- Instantaneous illumination. ...
- Directional lighting.







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SEWAGE TREATMENT PLANT

In SRCP, the waste water is treated in an STP installed in the campus and then it is released to the environment. Through the treatment of wastewater, the amount of waste that is usually released into the environment is reduced thus improving environment's health. By doing so, we reduce the health risks associated with environmental pollution, and reduce the water loss induced through water pollution.

Outcomes are:

- 1. The suspended solid matter is removed
- 2. It prevents disease. Wastewater can potentially contain bacteria and chemicals that would cause disease and death to people that consume it.
- 3. It provides clean water. .. If properly treated it can be reused.
- It helps the environment
 Waste does not go to waste.



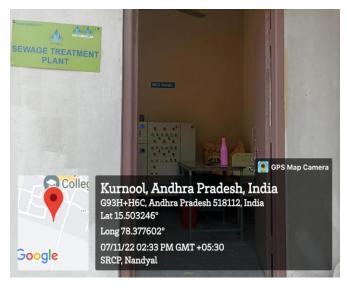


Fig.12: Sewage water treatment Plant



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USAGE OF PUBLIC TRANSPORT

Students and staff use are encouraged to use battery vehicles on the campus. Staff members initiated usage of battery scooters conveyance daily. Hostellersare discouraged from having two wheelers/cars.

Public Transport – the institute provides bus services to and from Kurnool and Nandyal to all faculty members and staff. The service is available for the students at fixed timings to travel between campuses and public places. Besides this, more than 80% of students use public transport to travel to and from college every day



Fig 13: SRCP buses for transport



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PEDESTRIAN FRIENDLY PATHWAYS:

To enter the campus, pedestrian friendly roads have been constructed for smooth commuting of students, faculty and other staff members of the institute. These roads are maintained on regular basis for keeping them free of mud, dust and any other vegetational growth. On eitherside of the roads, proper concrete boundaries are made and painted. These well-maintained roads add the beauty of the SRCP campus.

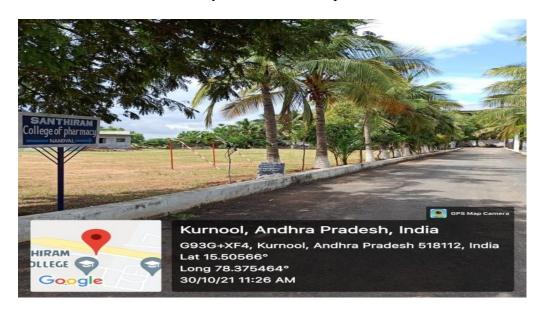


Fig.14: Sign Board for Pedestrial Entry for staff and students

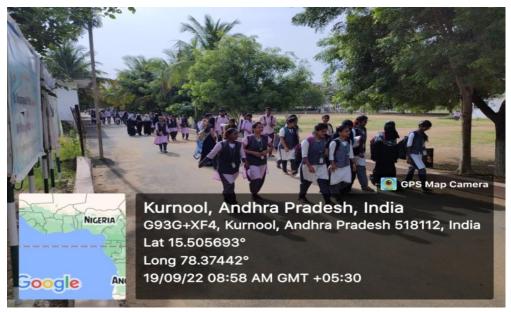


Fig.15: Sign Board for Pedestrial Entry for staff and students



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PAPERLESS OFFICE:

All offices work on paperless concept by digital display of all the notices and information through mail, Google groups, Whats App Groups, Google classrooms, etc. as much as possible. High speed Wi-Fi facility is also provided for this. Other practices like, re-use of one-sided paper for notes, sketches, rough work, rough printouts, etc.; cashless transactions, and utilizing multi user printer at central administrative locations of the Instituteoffice also aims at reducing the use of papers.

SOLAR RESOURCES:

Our college had initiated the utilization of solar resources to reduce electricity usage. Such a system does not depend on fossil fuels and takes energy from the sun. It, therefore, saves money and energy, which is a major advantage of solar systems. Also, it does not pollute the environment.



Fig 16: Solar System Initiation in Campus



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SANTHIRAM COLLEGE OF PHARMACY

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NO SMOKING CAMPUS:

As an initiative to make our college campus completely smoke and tobacco free, smoking and chewing of tobacco is strictly prohibited in SRCP

