

GREEN AUDIT REPORT

2020-2021



Samskruti college of pharmacy:: Ghatkesar
Kondapur, Ghatkesar, Telangana

Accredited by NAAC

Principal

Samskruti College of Pharmacy:
Kondapur (V), Ghatkesar (M).
Medchal Dist. PIN-501301



Green Audit Assessment Team



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Principal

Samskruti College of Pharmacy
Kondapur (V), Ghatkesar (M).
Medchal Dist. PIN-501301

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Medchal Dist. PIN-501101

INTRODUCTION



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Medchal Dist. PIN-501604

INTRODUCTION

Green Audit is a process of systematic identification, quantification, recording, reporting and analysis of components of environmental diversity of institute. It aims to analyze environmental practices within and outside of the concerned place, which will have an impact on the eco-friendly atmosphere. Green audit is an important process for any college or institution to determine how and where they are using the most energy or water or other resources; based on which the college can then consider how to implement changes and make savings. It can create health consciousness and promote environmental awareness, values and ethics. It provides the staff and students a better understanding of Green impact on campus. If self-enquiry is a natural and necessary outgrowth of a quality education, it can also be stated that institutional self-enquiry is a natural and necessary outgrowth of any quality educational institution. Thus it is imperative that the college evaluate its own contributions toward a sustainable future. As environmental sustainability is becoming an increasingly important issue for the nation, the role of higher educational institutions in relation to environmental sustainability is becoming more prevalent.

The rapid urbanization and economic development at local, regional and global level has led to several environmental and ecological crises. On this background it becomes essential to adopt the system of the Green Campus for the institutes which will lead for sustainable development and at the same time reduce a sizable amount of atmospheric CO₂ from the environment. The National Assessment and Accreditation Council, New Delhi (NAAC) has made it mandatory that all Higher Educational Institutions should submit an annual Green Audit Report. Moreover, it is part of Corporate Social Responsibility of the Higher Educational Institutions to ensure that they contribute towards the reduction of global warming through carbon footprint reduction measures.



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OBJECTIVES



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OBJECTIVES

In recent time, the Green Audit of an institution has been becoming a paramount importance for self- assessment of the institution which reflects the role of the institution in mitigating the present environmental problems. The college has been putting efforts to keep our environment clean since its inception. Therefore, the purpose of the present green audit is to identify, quantify, describe and prioritize framework of Environment Sustainability in compliance with the applicable regulations, policies and standards. The main objectives of carrying out Green audit are:

- To map the geographical location of the institution.
- To document the floral and faunal diversity of the college.
- To record the meteorological parameter of SCOP where the college is situated.
- To document the ambient environmental condition of weather, air, water and noise of the college.
- To document the waste disposal system.
- To estimate the Energy requirements of the college.
- To report the expenditure on green initiatives during the last five years.



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METHODOLOGY



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METHODOLOGY

The purpose of the green audit of SCOP is to ensure that the practices followed in the campus are in accordance with the Green Policy of the country. The methodology includes: collection of data, physical inspection of the campus, observation and review of the documentation and data analysis.



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ABOUT THE COLLEGE



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Samskruti College of Pharmac
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Medchal Dist. PIN-501.221

ABOUT THE COLLEGE

The Samskruti College of Pharmacy, one of the four educational institutions sponsored by the Vincent Education Society, was established in 2006 with a vision to impart quality technical education and is affiliated to Jawaharlal Nehru Technological University Hyderabad. The College is a little away from the din and bustle of Ghatkesar, a town with a historic and hoary past, about 15 Km. south of Hyderabad on Hyderabad-Warangal highway and rail route. The college offers B.Pharmacy, Pharm.D, Pharm.D(PB) and M.Pharmacy in six specializations of Pharmacy- Pharmaceutics, Pharmaceutical Analysis, Pharmacology, Pharmaceutical Chemistry, Pharmacy Practice and Regulatory Affairs.

Programmes offered by the institution

| S.NO | Programme Code | Programme Name |
|------|----------------|-------------------------------------|
| 01 | 1R | B.Pharmacy |
| 02 | 1T | Pharm.D |
| 03 | 5T | Pharm.D (PB) |
| 04 | S03 | M. Pharmacy-Pharmaceutics |
| 05 | S12 | M.Pharmacy-Pharmaceutical Analysis |
| 06 | S13 | M.Pharmacy-Regulator Affairs |
| 07 | S15 | M.Pharmacy-Pharmacy Practice |
| 08 | S02 | M.Pharmacy-Pharmaceutical Chemistry |
| 09 | S01 | M.Pharmacy-Pharmacology |



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VISION AND MISSION STATEMENTS



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Samskruti College of Pharmacy
Kondapur (V), Ghatkesar (M),
Medchal Dist. PIN-501391

Vision

- To be center of excellence by redefining pharmacy education and nurture globally competent professional pharmacists.
- To empower the faculty and students with knowledge, skills and innovative thinking to facilitate discovery in numerous existing and yet to be discovered fields of Pharmacy, clinical research and interdisciplinary endeavors.

Mission

- To train and develop students into professional pharmacists so as to fulfill the industrial and community needs. To shoulder the responsibility of reducing the suffering mankind by providing pharmaceutical care.
- To maintain high values and standards so as to make students technologically competent and ethically strong individuals who shall be able to improve the quality of life and economy of our country.



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GREEN AUDITING



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GREEN AUDITING

Samskruti College of Pharmacy has been taken several initiatives to transform the college as “Green Campus” and adopted the ‘Green Campus’ system for environmental conservation in order to achieve environmental sustainability. The institute has initiated and planted variety of plant species to encourage and enhance the Biodiversity aspect of the campus. Due the Green initiative adopted by the institute, the campus temperatures were reduced and contributes on the adverse impacts of Global warming. The Students are enabled to pursue their pharmacy higher education comfortably at Green Campus and eco-friendly study environment. Rainwater harvesting system was implemented to meet the needs for plantation.




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The solid waste will be collected from all the sources such as from Kitchen, bathrooms inside the canteen which includes papers, plastics, foods, metals, glass etc. and it will be segregated from source of generation. The administrative supervisor in each block ensures that the waste in each floor is collected at designated time intervals. The block workers in each floor collect, clean, segregate and compile the waste in the dustbins provided at each floor. The floor dustbins are emptied in movable containers provided for each block and is taken to the dumping yard provided by the college. The college has contacted an authorized vendor who collects the waste from the designated place, segregates them, recycles them and disposes them at the landfills authorized by the government. For drinking, mineral water facility is arranged in every building of the campus. Wastage of drinking water is restricted through proper monitoring. Waste water is properly drained out to maintain the greenery in the campus as well as providing ecologically aesthetic environment. Proper drainage system is arranged for all the buildings of the campus. Awareness towards minimizing the wastage of water is spread at regular intervals among the students.

The college was located in 5.2 acres of land area. The three major pillars i.e. zero environmental foot print, positive impact on occupant health and performance and 100% graduates demonstrating environmental literacy. The goal is to reduce CO₂emission, energy and water use, while creating atmosphere where students can learn and be healthy.

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LAND USE ANALYSIS OF SCOP



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LAND USE ANALYSIS, SCOP

GENERAL OVERVIEW OF THE CONCEPT OF LAND USE

Land use refers to man's activities and the various uses which are carried on and derived from land. Viewing the earth from space, it is now very crucial in man's activities on natural resource. In situations of rapid changes in land use, observations of the Earth from space give the information of human activities and utilization of the landscape.

Remote sensing GIS techniques are now providing new tools for advanced land use mapping and planning. The collection of remotely sensed data facilitates the synoptic analyses of earth system, functions, patterning and change in the local, regional as well as at global scales over time. Satellite imagery particularly is a valuable tool for generating land use map.

METHODOLOGY ADOPTED FOR LAND USE MAPPING

Three types of data that are GPS points, field survey data and Google earth data for geo referencing have been used in this study.

DATA PROCESSING AND ANALYSIS

Land use map preparation is executed through the following steps:

Acquisition of data (latitude and longitudinal data) Geo-coding and Geo referencing of satellite imageries by extracting the ground control points. Supervised classification was carried out with the aid of ground truth data collected during field survey. Scanning and digitization of maps and editing of all the Geo referenced maps were done using GIS. Data manipulation and analysis and linking the spatial data with the attribute data for creation of topology was carried out using GIS software. Creation of GIS output in the form of land use map showing various land usage have also been prepared.

Therefore, attempt has been made in this study to map land use for SCOP with a view to detect the land consumption in the built-up land area using both remote sensing and GIS techniques.

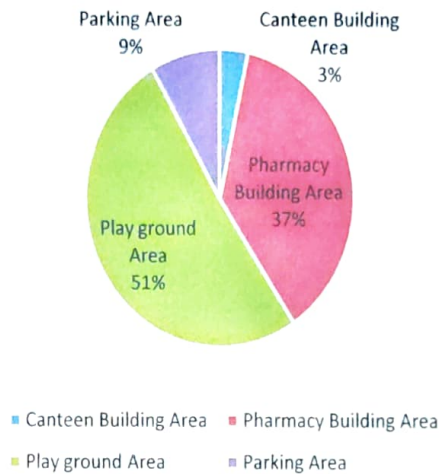


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LAND USE DATA OF SCOP, Ghatkesar

| Canteen Building Area | AREA (sq.meter) |
|--|-----------------|
| Administrative Area (Inside the Pharmacy Building) | 500 |
| Canteen Building Area | 400 |
| Pharmacy Building Area | 4456 |
| Play ground Area | 6070.28 |
| Parking Area | 1000 |
| Total Area | 11,926.28 |

LAND USE ANALYSIS, Samskruti College of Pharmacy, Ghatkesar, Hyderabad



LAND USE (BUILT UP AREA) ANALYSIS

The built up area of 40% (4865.0 m²5%) consists of the following regions as stated below for land consumption in built-up area for Samskruti College of Pharmacy.

FINDINGS

SCOP, which was established in the year 2006, has an eco-friendly environment. It has a long legacy of healthy environmental practices including periodic plantation, their preservation and maintenance. Its land use is such that about 60% of the total area is occupied by open land and plantation that generates a better and sustainable campus environment.

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Area occupied by various buildings of SCOP

Instructional Area Details

| Building/Blocks Name | Level/Floor No. | Room No. | Measurements of room (in Sq.mts.) | | | |
|-------------------------------|-----------------|----------|-----------------------------------|---------|--------|------------|
| | | | Length | Breadth | Height | Area (L*b) |
| SAMSKRUTI COLLEGE OF PHARMACY | 1 | 205 | 7.5 | 9.15 | 3.66 | 68.625 |
| SAMSKRUTI COLLEGE OF PHARMACY | 1 | 206 | 7.5 | 9.15 | 3.66 | 68.625 |
| SAMSKRUTI COLLEGE OF PHARMACY | 1 | 208 | 3.58 | 9.15 | 3.66 | 32.757 |
| SAMSKRUTI COLLEGE OF PHARMACY | 2 | 306 | 7.5 | 9.15 | 3.66 | 68.625 |
| SAMSKRUTI COLLEGE OF PHARMACY | 2 | 307 | 7.5 | 9.15 | 3.66 | 68.625 |
| SAMSKRUTI COLLEGE OF PHARMACY | 2 | 308 | 3.58 | 9.15 | 3.66 | 32.757 |
| SAMSKRUTI COLLEGE OF PHARMACY | 2 | 309 | 3.58 | 9.15 | 3.66 | 32.757 |
| SAMSKRUTI COLLEGE OF PHARMACY | 3 | 410 | 3.58 | 9.15 | 3.66 | 32.757 |
| SAMSKRUTI COLLEGE OF PHARMACY | 3 | 403 | 3.58 | 9.15 | 3.66 | 32.757 |
| SAMSKRUTI COLLEGE OF PHARMACY | 3 | 411 | 3.58 | 9.15 | 3.66 | 32.757 |
| SAMSKRUTI COLLEGE OF PHARMACY | 3 | 404 | 3.58 | 9.15 | 3.66 | 32.757 |
| SAMSKRUTI COLLEGE OF PHARMACY | 3 | 407 | 3.58 | 9.15 | 3.66 | 32.757 |
| CANTEEN BUILDING | 1 | 101 | 3.58 | 9.15 | 3.66 | 32.575 |
| CANTEEN BUILDING | 1 | 102 | 7.5 | 9.15 | 3.66 | 68.625 |
| CANTEEN BUILDING | 1 | 104 | 15.0 | 9.15 | 3.66 | 137.25 |
| CANTEEN BUILDING | 1 | 106 | 3.58 | 9.15 | 3.66 | 32.757 |
| CANTEEN BUILDING | 1 | 107 | 7.5 | 9.15 | 3.66 | 68.625 |



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Lab Area Details

| Building/Blocks Name | Level/Floor No. | Room No. | Length | Breadth | Height | Area (L*b) |
|-------------------------------|-----------------|----------|--------|---------|--------|------------|
| SAMSKRUTI COLLEGE OF PHARMACY | 0 | 102 | 7.21 | 9.15 | 3.66 | 66.02 |
| SAMSKRUTI COLLEGE OF PHARMACY | 0 | 106 | 7.39 | 9.15 | 3.66 | 67.795 |
| SAMSKRUTI COLLEGE OF PHARMACY | 0 | 107 | 7.39 | 9.15 | 3.66 | 67.67 |
| SAMSKRUTI COLLEGE OF PHARMACY | 0 | 108 | 11.20 | 9.15 | 3.66 | 102.46 |
| SAMSKRUTI COLLEGE OF PHARMACY | 0 | 109 | 7.39 | 9.15 | 3.66 | 67.67 |
| SAMSKRUTI COLLEGE OF PHARMACY | 1 | 201 | 7.5 | 9.15 | 3.66 | 68.5 |
| SAMSKRUTI COLLEGE OF PHARMACY | 1 | 202 | 11.20 | 9.15 | 3.66 | 102.46 |
| SAMSKRUTI COLLEGE OF PHARMACY | 1 | 203 | 11.20 | 9.15 | 3.66 | 102.46 |
| SAMSKRUTI COLLEGE OF PHARMACY | 1 | 204 | 7.5 | 9.15 | 3.66 | 68.5 |
| SAMSKRUTI COLLEGE OF PHARMACY | 1 | 210 | 1.79 | 9.15 | 3.66 | 16.37 |
| SAMSKRUTI COLLEGE OF PHARMACY | 2 | 301 | 7.5 | 9.15 | 3.66 | 68.5 |
| SAMSKRUTI COLLEGE OF PHARMACY | 2 | 305 | 11.20 | 9.15 | 3.66 | 102.56 |
| SAMSKRUTI COLLEGE OF PHARMACY | 2 | 310 | 7.5 | 9.15 | 3.66 | 68.5 |
| SAMSKRUTI COLLEGE OF PHARMACY | 3 | 401 | 11.20 | 9.15 | 3.66 | 102.56 |
| SAMSKRUTI COLLEGE OF PHARMACY | 3 | 402 | 11.20 | 9.15 | 3.66 | 102.56 |
| SAMSKRUTI COLLEGE OF PHARMACY | 3 | 406 | 18.83 | 9.15 | 3.66 | 172.32 |
| SAMSKRUTI COLLEGE OF PHARMACY | 3 | 408 | 11.20 | 9.15 | 3.66 | 102.56 |
| SAMSKRUTI COLLEGE OF PHARMACY | 3 | 409 | 7.5 | 9.15 | 3.66 | 68.5 |
| SAMSKRUTI COLLEGE OF PHARMACY | 3 | 412 | 7.5 | 9.15 | 3.66 | 68.5 |
| SAMSKRUTI COLLEGE OF PHARMACY | 3 | 413 | 7.5 | 9.15 | 3.66 | 68.5 |
| CANTEEN BUILDING | 1 | 105 | 7.5 | 9.15 | 3.66 | 68.5 |



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GEOGRAPHICAL LOCATION WITH CAMPUS MAP IN SCALE

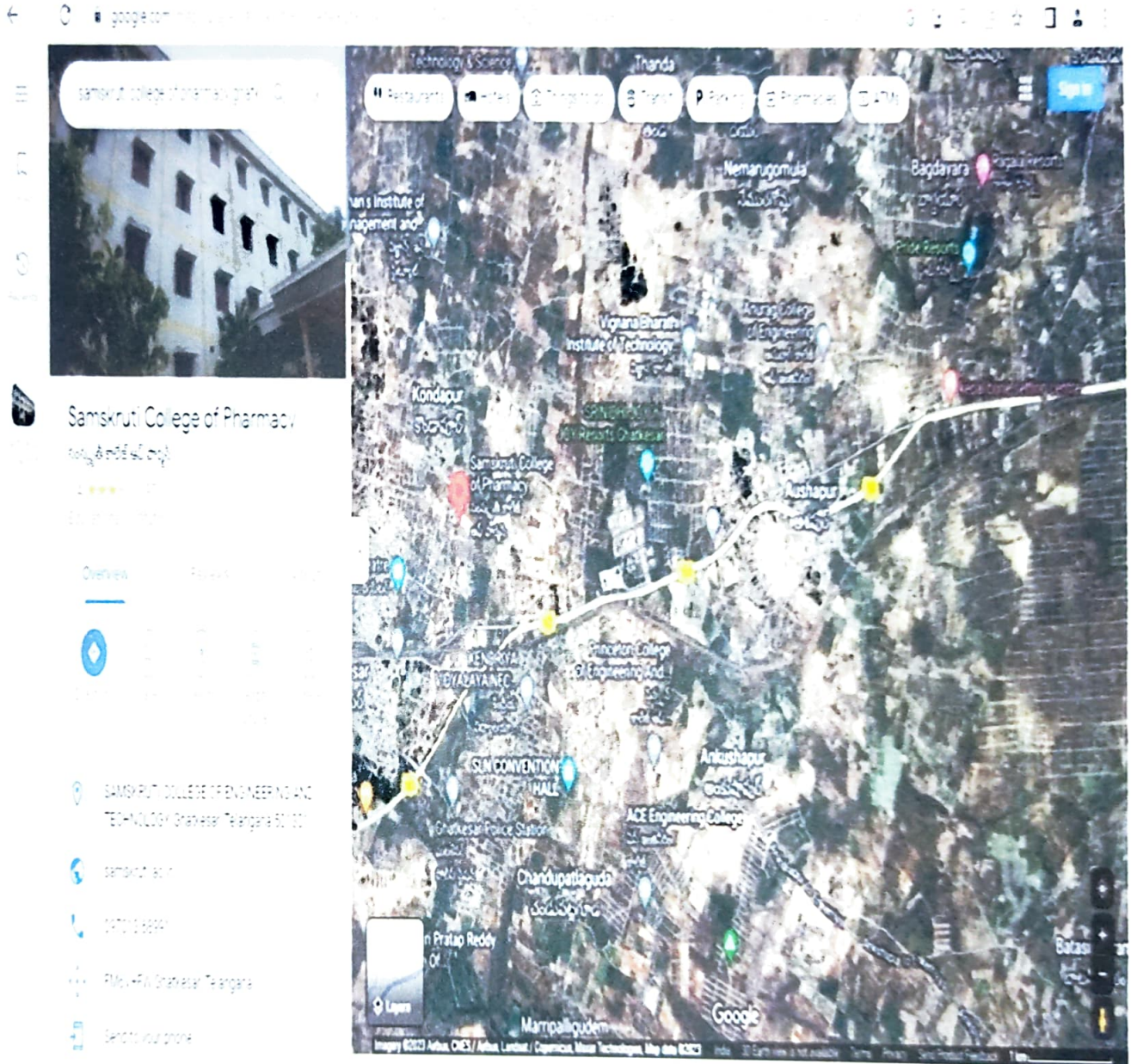


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GEOGRAPHICAL LOCATION WITH CAMPUS MAP IN SCALE

The college has a sprawling pollution-free campus spread over 5.2 acres of land very near to the Kondapur village, Ghatkesar Mandal of Medchal District.



Google Map of College Campus and Location map screen shot

[Handwritten Signature]
Principal

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TREE DIVERSITY OF SCOP



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TREE DIVERSITY OF SCOP, Ghatkesar.

SCOP is within the geo-position between latitude N 17°27'42.69092" and longitude E78°41'40.9683" in SCOP, Telangana, India. It encompasses an area of about 30 Acres. The area is immense diverse with a variety of tree species performing a variety of functions. Most of these tree species are planted in different periods of time through various plantation programmes organized by the authority and have become an integral part of the college.

The trees of the college have increased the quality of life, in terms of contributing to our environment by providing oxygen, improving air quality, climate amelioration, conservation of water, preserving soil, and supporting wildlife, controlling climate by moderating the effects of sun, rain and wind. Leaves absorb and filter the sun's radiant energy, keeping things cool in summer. Many species of birds are dependent on these trees mainly for food and shelter. Nectar of flowers and plants is a favorite of birds and many insects.

Leaf covered branches keep many animals, such as birds and squirrels, out of reach of predators. Different species display a seemingly endless variety of shapes, forms, texture and vibrant colors. Even individual trees vary their appearance throughout the course of the year as the seasons change. The strength, long lifespan and regal stature of trees give them a monument – like quality They also remind us the glorious history of SCOP and our institution in particular. We often make an emotional connection with these trees and sometime become personally attached to the ones that we see every day.

A thick belt of large shady trees in the periphery of the college have found be bringing down noise and cut down dust and storms. Thus, the college has been playing a significant role in maintaining the environment of the entire SCOP town and its surrounding areas.

“Green audit” is a principle introduced to make the educational institute environmentally sustainable. The purpose of the green audit is to ensure that the Green Policy is followed and implemented in the campus. Samskruti college of Pharmacy implemented green-friendly practices to manage the available resources and has taken steps in environmental conservation and protection. As a part of such practice, internal environmental audit (Green Audit) is conducted to evaluate the actual scenario on the campus. A survey on trees and other greeneries within the campus was done by the students.


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Green Audit Report, SCOP-2021

The following are the tree species with whom we are being attached:

| S.No. | Common Name | Scientific Name | Number |
|-------|-----------------|------------------------------|--------|
| 1 | Nalleru | Cissus quadrangularis | 02 |
| 2 | Kamanchi | Solanum Nigrum | 03 |
| 3 | Lemon grass | Cymbogon | 02 |
| 4 | Ranapala | Bryophillum pinnatum | 01 |
| 5 | Tulasi | Sciumu | 05 |
| 6 | Attipatti | Mlmosa pudica | 07 |
| 7 | Kanakambaram | Crossandrain fundibuliformis | 04 |
| 8 | Fieri Costus | Chamaecostus Cuspidatus | 02 |
| 9 | Cayenne jasmine | Catharanthus roseus | 02 |
| 10 | Guava | Pisidium guava | 06 |
| 11 | Anjeer | Ficus Carica | 01 |
| 12 | Parijata | Cestrum Nocturnum | 02 |
| 13 | Indian plum | Ziziphus mauritiana | 07 |
| 14 | Sago palm | Cycas | 02 |
| 15 | Jennifer | Aster ericoides | 01 |
| 16 | Pomegranate | Punica granatum | 03 |
| 17 | Aloevera | Aloe barbadensis | 18 |
| 18 | Sea hibiscus | Talipara | 02 |
| 19 | Vepachettu | Azadirachta indica | 20 |
| 20 | Nereduchettu | Syzygiumcumini (L.) Skeels | 02 |
| 21 | Coconut | Cocos nucifera | 04 |
| 22 | Christmas Tree | Araucaria columnaris | 06 |
| 23 | Oyster plant | tradiscantia | 03 |
| 24 | Badam | Terminalia catappa | 08 |
| 25 | Usirikaaya | Phyllanthus emblica | 04 |
| 26 | Kanuga | Millettia Pinnata | 09 |
| 27 | Mango | Mangifera indica | 03 |
| 28 | Marri chettu | Ficus benghalensis | 02 |
| 29 | Raavi chettu | Ficus religiosa | 04 |
| 30 | Seethaphalam | Annona reticulata | 02 |
| 31 | Pala chettu | Alstonias cholaris | 04 |
| 32 | Sapota | Manilkara zapota | 04 |
| 33 | Drumstick | Moringa oleifera | 02 |

Green Audit Report, SCOP-2021

| | | | |
|----|--------------------------------------|-------------------------------|----|
| 34 | Henna Tree | Lawsonia inermis | 03 |
| 35 | Oyster plant | Tradescantia | 03 |
| 36 | Blue flowered rattle pod | Crotalaria vessucosa L | 03 |
| 37 | Orchid plant | Cymbidium orchid | 01 |
| 38 | Lane puwak | Areca concinna | 02 |
| 39 | Peacock flower | Caesalpinia pulcberrima | 08 |
| 40 | Lantana camera flowers | Lantana camera | 05 |
| 41 | Parthenium (santa maria fever few) | Parthenium hysterophorus | 20 |
| 42 | Orchidtree (kanchon) | Bauhinia variegata | 04 |
| 43 | Sickle pod | Senna obtusifolia | 07 |
| 44 | Achar / chironji tree seeds | Buchananialanza | 01 |
| 45 | Vampadan climbing shrub | Ventilago madeaspatana | 03 |
| 46 | Lebbeck tree | Langil | 05 |
| 47 | Indian cork tree | Millingtonia hortensis linn.F | 07 |
| 48 | Veld grape | Cissus quadragularis | 02 |
| 49 | Cheese wood | Pittosporum tobira | 06 |
| 50 | Paper flower | Bougainvillea glabra | 04 |
| 51 | nilgiri | Eucalyptus globulus | 05 |
| 52 | Crown of thorns | Euphorbia millivar | 15 |
| 53 | Papaya | Carica papaya | 02 |
| 54 | Fire cracker flower | Crossan drain fundibuiformis | 02 |
| 55 | Chamanthi | crysanthemum | 02 |
| 56 | Ixora coccinia | Rubiaceae | 02 |
| 57 | Jasminum cuspidatum | Oleaceae | 03 |
| 58 | Lawsoniainermis | Lythraceae | 03 |
| 59 | Mangiferaindica | Anacardiaceae | 03 |
| 60 | Screwpine | Pandanus veitchi | 04 |
| 61 | Lancepod | Loncho carpus costaricensis | 03 |
| 62 | Earpod tree | Enterolobium cyclocarpum | 20 |
| 63 | Nontry cypress | Cypressus and macrocarpa | 06 |
| 64 | Weeping fig | Ficus bengamina | 07 |
| 65 | Coat buttons | Tridax procumbens | 06 |
| 66 | Indian pulai | Alstroniascholaris | 01 |
| 67 | Trumpet tree | Tabebuia roser | 03 |
| 68 | Brush berry | Syzygiamaustrale | 02 |

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Green Audit Report, SCOP-2021

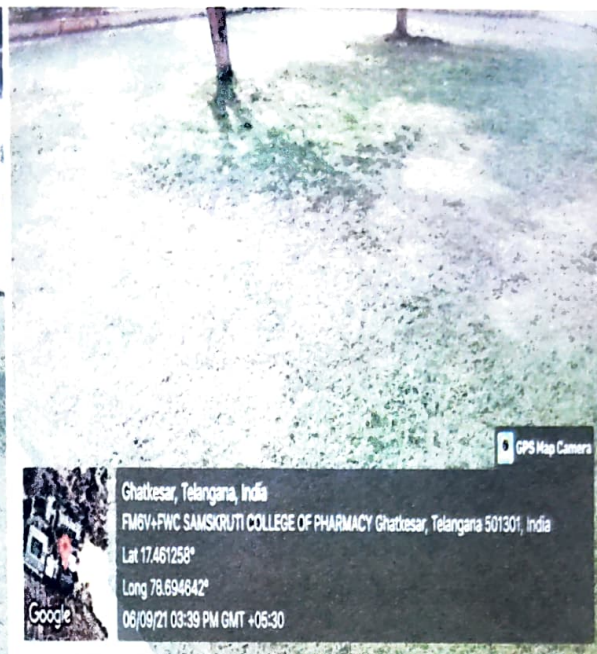
| | | | |
|----|-------------------|------------------------|----|
| 69 | Oyster | Tradescantia spathacea | 02 |
| 70 | Good luck plant | Cordiyline fruticosa | 01 |
| 71 | Pergularia | Pergularia tomentosa | 01 |
| 72 | Cape honey suckle | Tecomaria capensis | 07 |

Plantation Photo



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Sanskriti College of Pharmacy
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Medchal (M), Ranga Reddy (D)

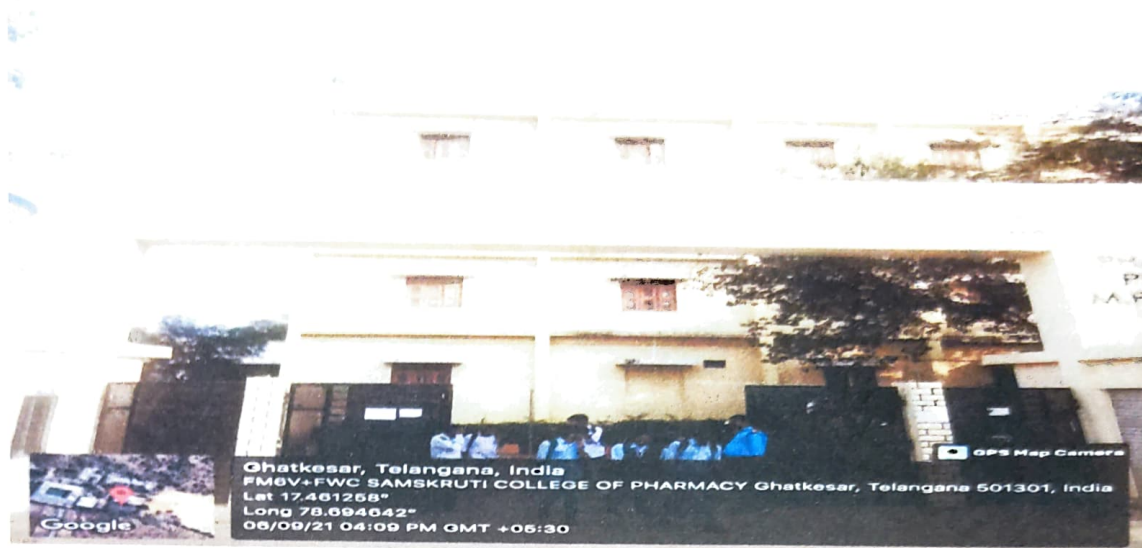
Green Trees And Plants Photo



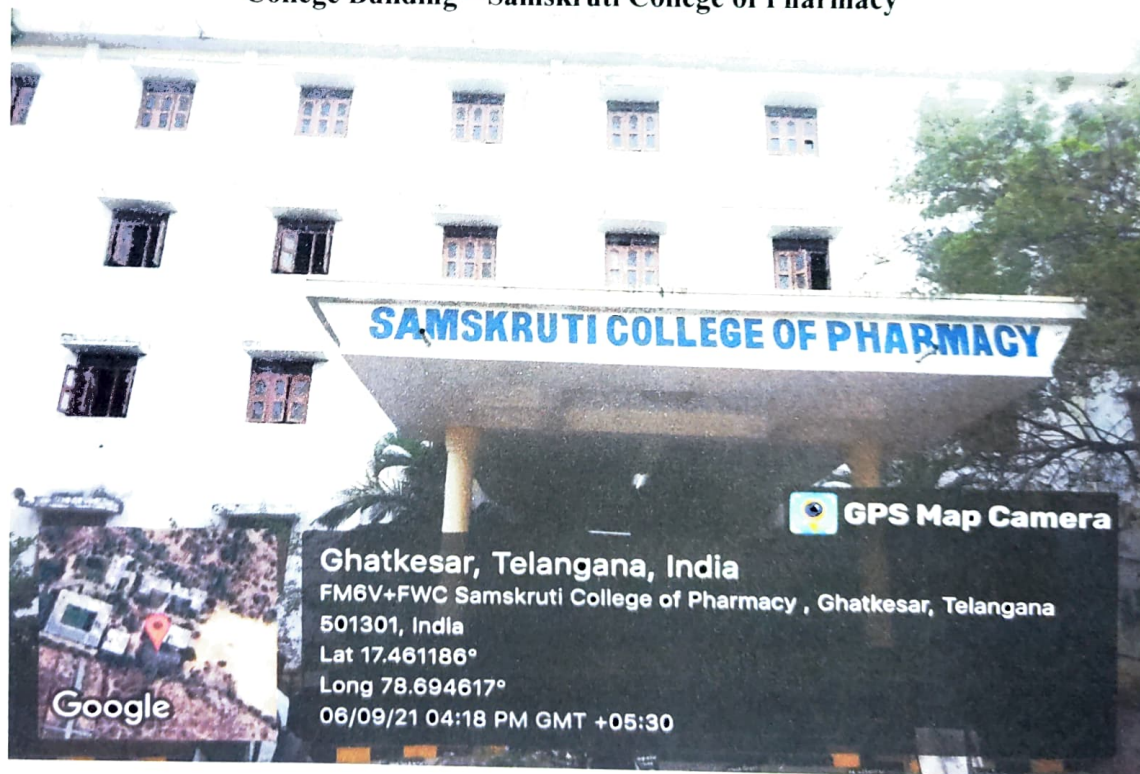
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Samskruti College of Pharmac,
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Main Entrance – Samskruti Group of Institutions



College Building – Samskruti College of Pharmacy



Principal

Samskruti College of Pharmacy
Kondapur (V), Chalkesar (M),
Medchal Dist. PIN-501301

Cafeteria – Samskruti College of Pharmacy



GPS Map Camera



Ghatkesar, Telangana, India
FM6V+FWC SAMSKRUTI COLLEGE OF PHARMACY Ghatkesar, Telangana 501301, India
Lat 17.461258°
Long 78.694642°
06/09/21 03:25 PM GMT +05:30

Canteen – Samskruti College of Pharmacy



GPS Map Camera

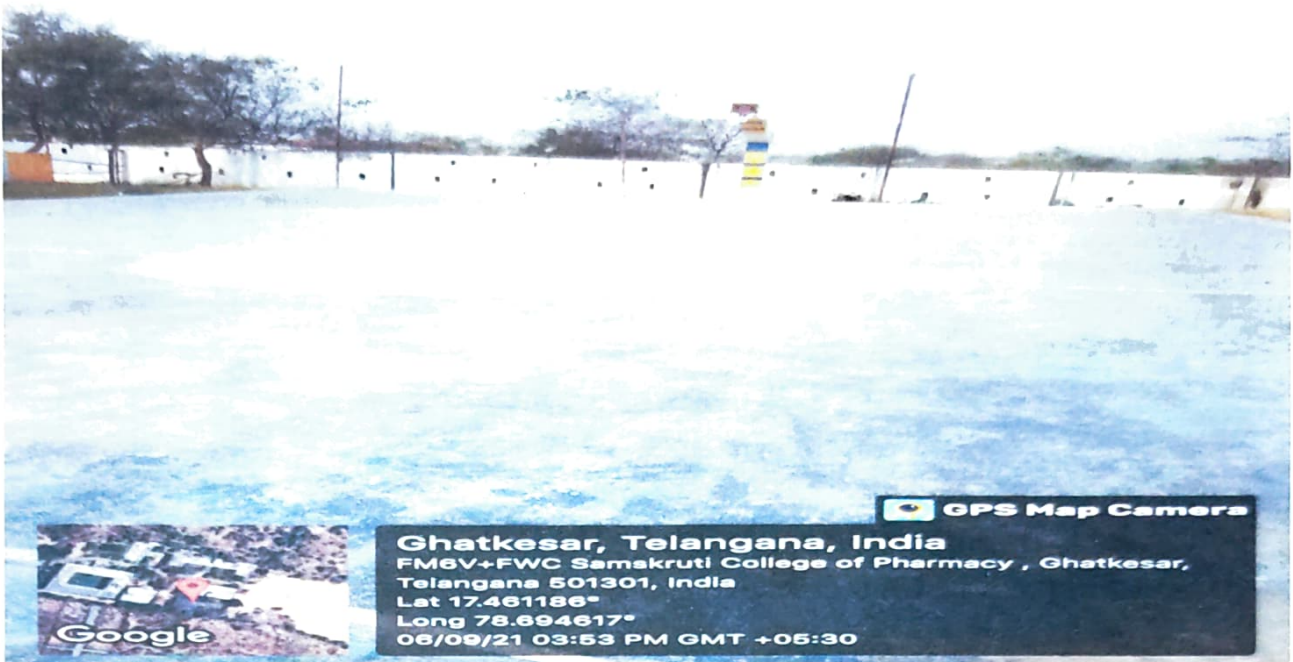


Ghatkesar, Telangana, India
FM6V+FWC Samskruti College of Pharmacy , Ghatkesar,
Telangana 501301, India
Lat 17.461186°
Long 78.694617°
06/09/21 03:26 PM GMT +05:30

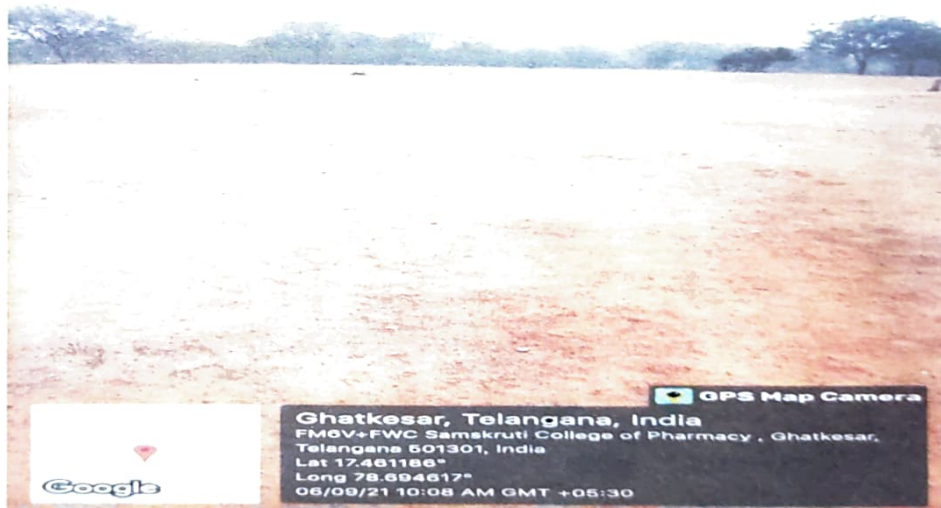
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Medchal Dist. PIN-501301

Basket ball court – Samskruti College Of Pharmacy

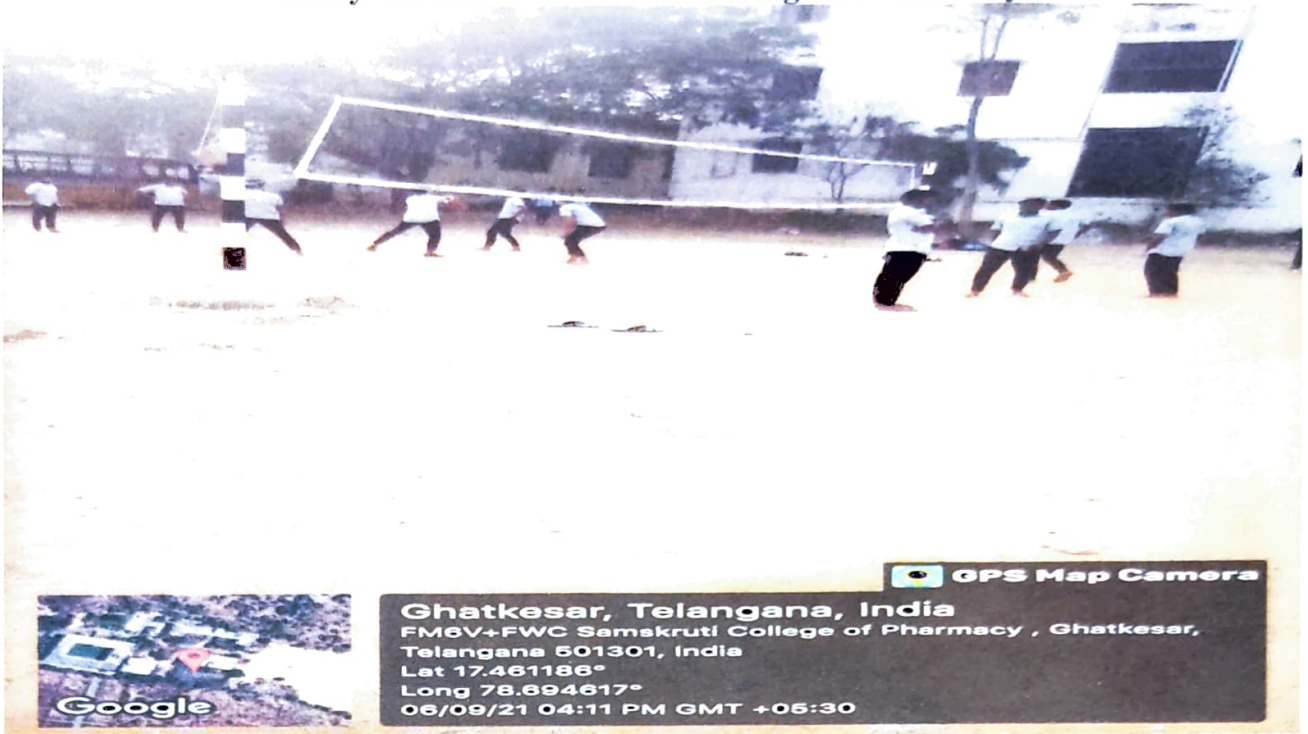


Play Ground – Samskruti College Of Pharmacy



Principal
Samskruti College of Pharmacy
Dandapur (V), Ghatkesar (M),
Narayanpet Dist. PIN-501301

Volleyball court – Samskruti College Of Pharmacy



Principal
Samskruti College of Pharmacy
Kondapur (V), Ghatkesar
Medchal Dist. PIN-501301

FAUNAL DIVERSITY IN SCOP



Principal

Samskruti College of Pharmc.
Kondapur (V), Ghatkesar (M).
Medchal Dist. PIN-507391

FAUNAL DIVERSITY IN SCOP

SCOP is located in District of Medchal, Telangana India. The highest temperature is recorded 42^o C just prior to the onset of monsoon (around May- early June). Summer rain is normal, and is principally caused from late June to August by the moisture-laden South- West Monsoon, on striking the Himalayan foothills of the north. The climatic condition of the SCOP district as a whole and SCOP in particular is very suitable for a wide variety of flora and fauna to support its rich biodiversity. The faunal Diversity of SCOP campus has been studied and documented as below:

| S.No | CommonName | ScientificName |
|------|--------------------|-----------------------------|
| 1. | Common Myna | Acridotheres Tristis |
| 2. | House Sparrow | Passer Domesticus |
| 3. | House Crow | Corvus Splendens |
| 4. | Cuckoo | Cuculidae |
| 5. | Snake | Naja Naja |
| 6. | Yellow Wasp | Ropalidia Marginata |
| 7. | Butter Fly | Danaus Genutia |
| 8. | Honey bees | Apis |
| 9. | Common Wood shrike | Tephrodornis Pondicerianus |
| 10. | Pied Myna | Gracupica Contra |
| 11. | Red-Vented Bulbul | Pycnonotus Cafer |
| 12. | Skylark | Aluda Gulgula |
| 13. | Garden Tiger Moth | Aretia Caja |
| 14. | Little Owl | Athene Brama |
| 15. | Oleander Moth | Syntomeida Epilais |
| 16. | Slender Skimmer | Orthetrum Sabina |
| 17. | Lizard | Indian Garden Lizard |
| 18. | peacocks | Pavo cristatus |
| 19. | Grass Hopper | Orthoptera |
| 20. | Squirrel | Sciuridae |
| 21. | Scarab Beetle | Coleoptera |
| 22. | Lizard | Lacertilia |
| 23. | Pigeon | Columbidae |
| 24 | Parrots | Indian Rose Ringed Parakeet |



Principal

Samskruti College of Pharmacy,
Kondapur (V), Ghaffargar (M),
Medchal Dist. Telangana



A handwritten signature in blue ink, appearing to be 'R. S. S.' or similar, written in a cursive style.

Principal

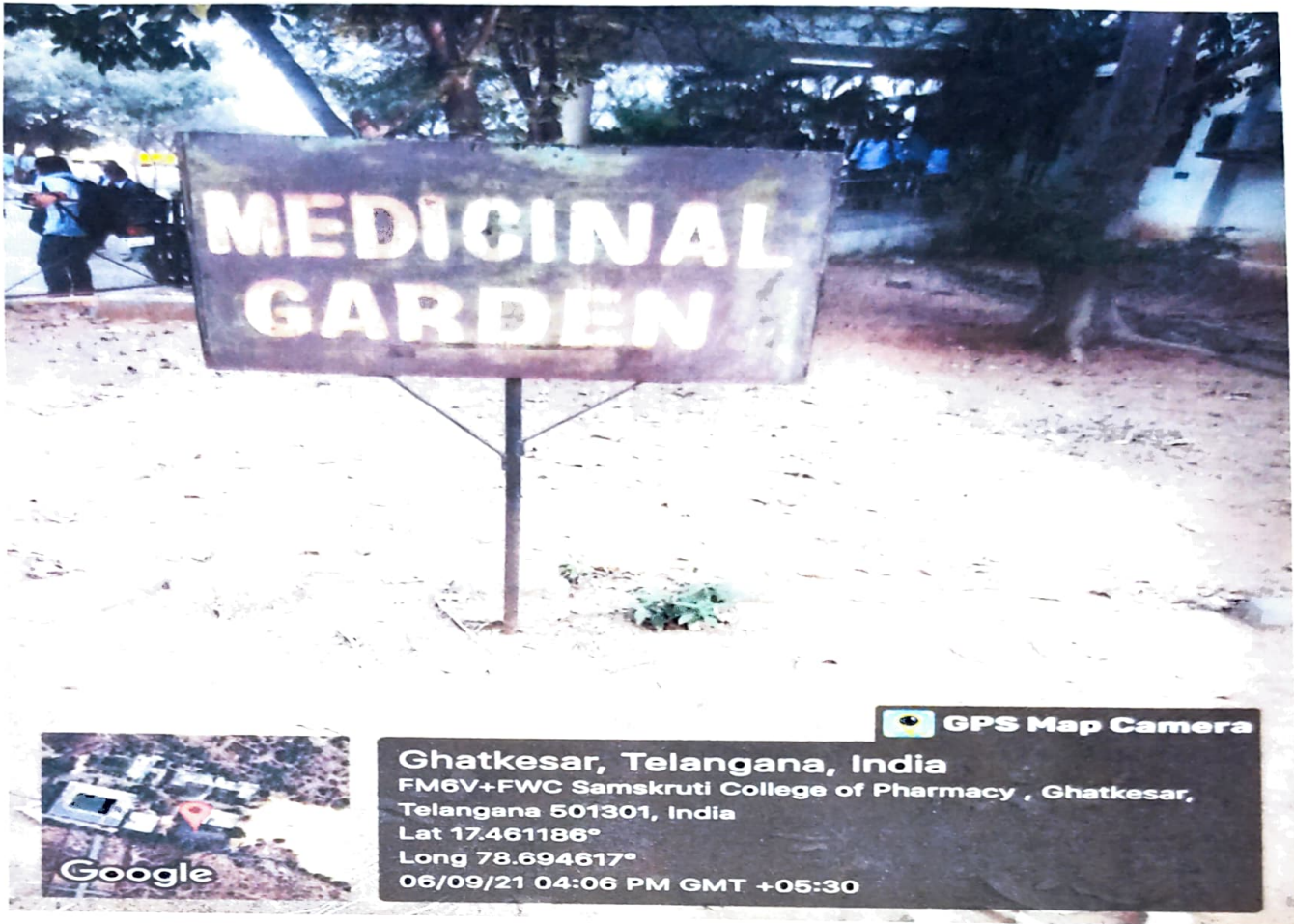
Samskruti College of Pharmacy
Kondapur (V), Chhatkoti (M),
Medchal Dist. PIN-501501

Trees and Plants- Samskruti College of Pharmacy




Principal

Samskruti College of Pharm.
Kondapur (V), Ghatkesar (M),
Medchal Dist. PIN-501301



Principal
Samskruti College of Pharmacy,
Kondapur (V), Ghatkesar (M),
Medchal Dist. PIN-501301

FLORAL DIVERSITY OF SCOP



Principal
Samskruti College of Pharm.
Kondapur (V), Ghatkesar (M),
Medchal Dist. PIN-501301

FLORAL DIVERSITY IN SCOP



Principal

Samskruti College of Pharm.
Kondapur (V), Ghatkesar (M),
Medchal Dist. PIN-501301

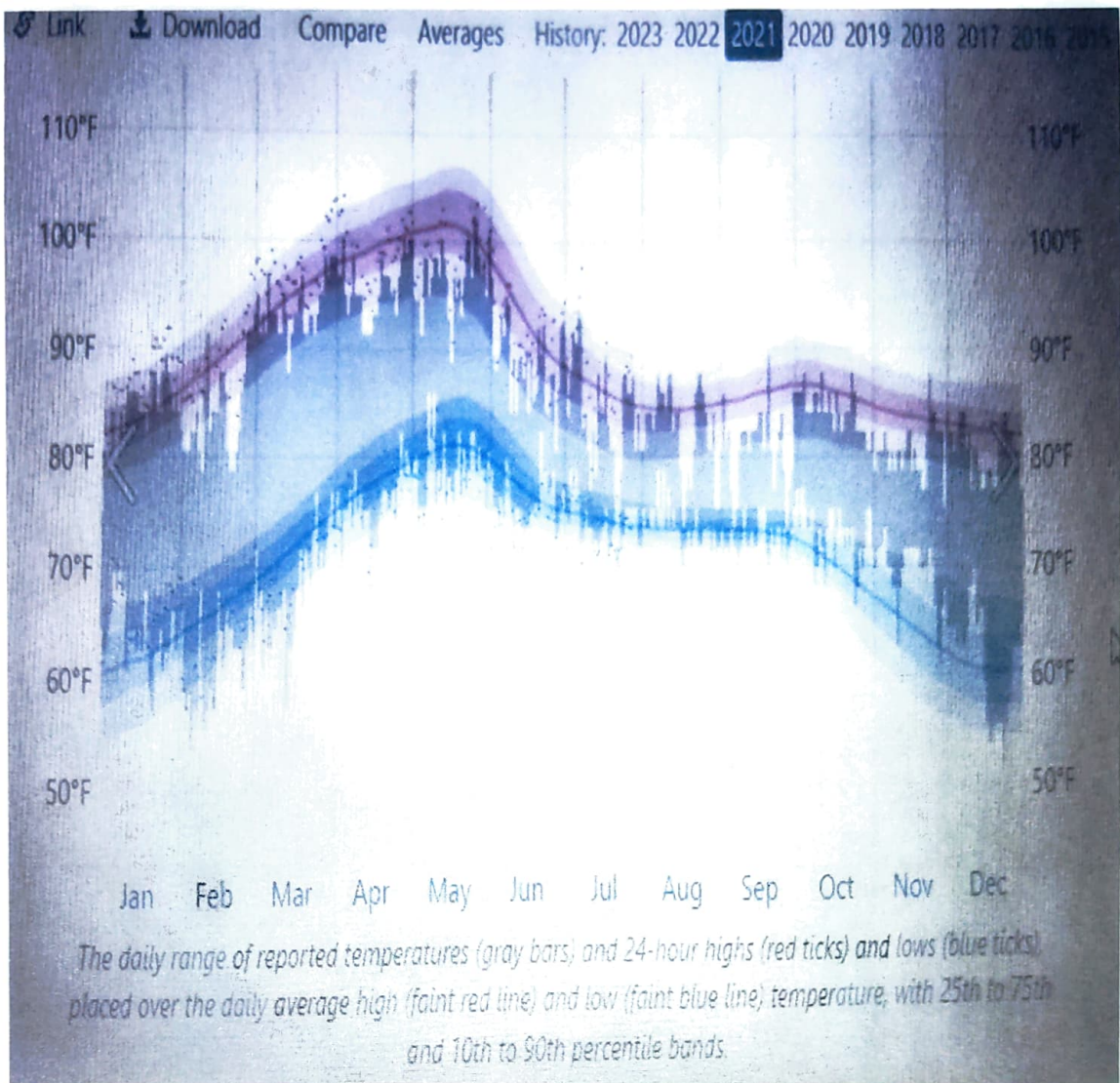
WEATHER DATA OF SCOP



Principal

Samskruti College of Pharm.
Kondapur (V), Ghatkesar (M).
Medchal Dist. PIN-501301

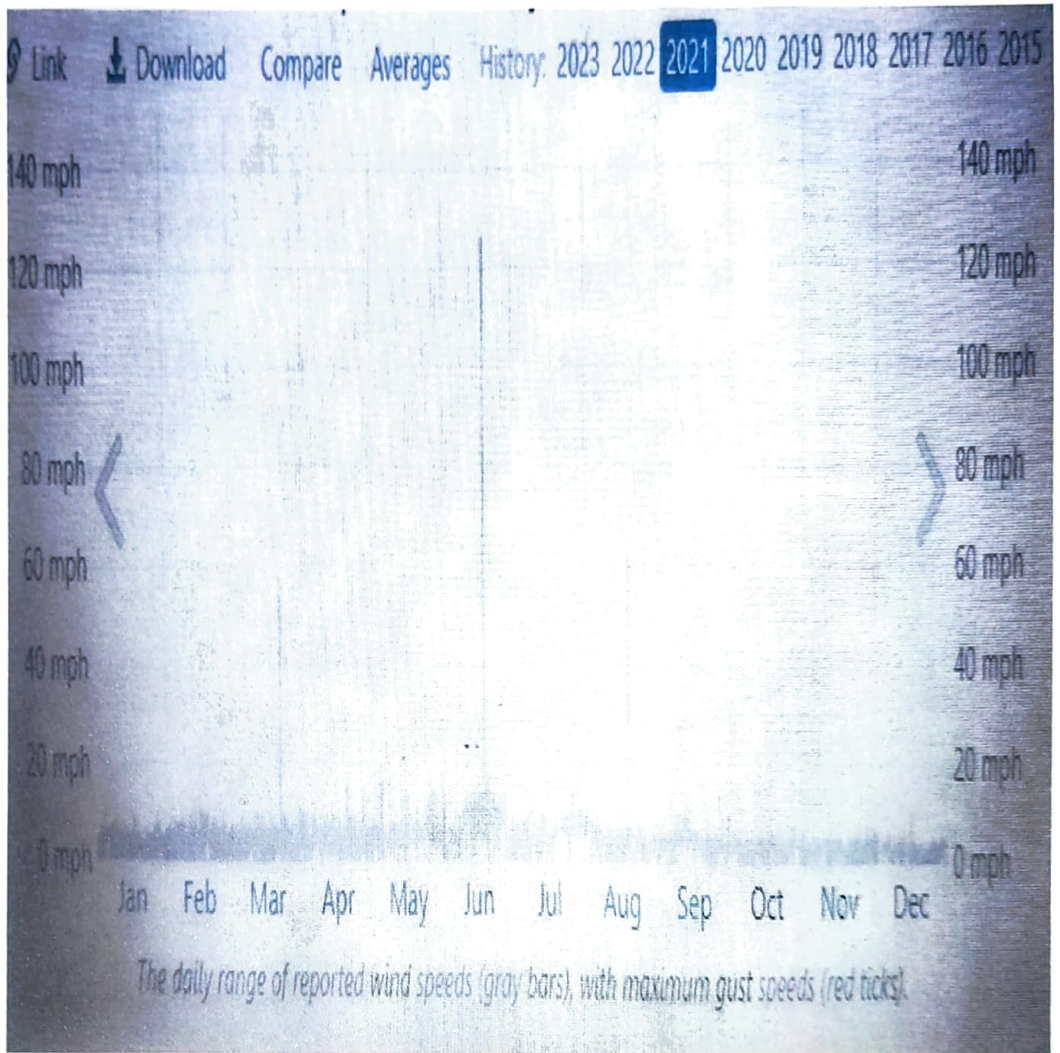
Weather Data – 2021



Temperature at Samskruti College of Pharmacy, Kondapur, Ghatkesar.

Principal

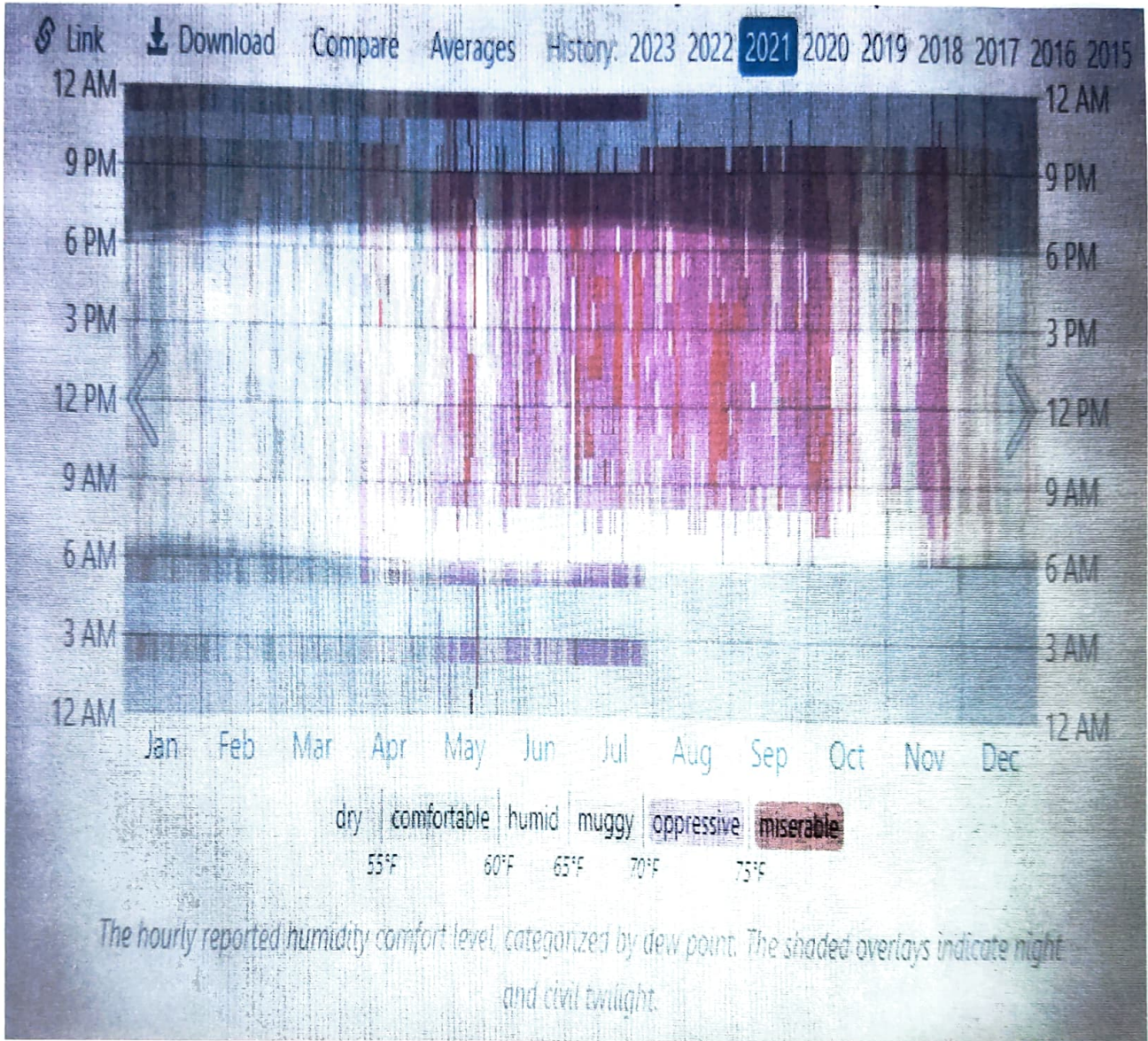
Samskruti College of Pharmacy
Kondapur (V), Ghatkesar (T)
Medchal Dist. PIN-501...



Wind Speed at Samskruti College of Pharmacy, Kondapur, Ghatkesar.

Principal

Samskruti College of Pharm.
Kondapur (V), Ghatkesar (M).
Medchal Dist. PIN-501301



Humidity at Samskruti College of Pharmacy, Kondapur, Ghatkesar.

Principal

Samskruti College of Pharmacy,
Kondapur (V), Ghatkesar (M),
Medchal Dist. PIN-501301



Rainfall at Samskruti College of Pharmacy, Kondapur, Ghatkesar.

Printed

Samskruti College of Pharmacy,
Kondapur (V), Ghatkesar (T),
Medchal Dist. PIN-501 301

AIR QUALITY OF SCOP



Principal

Samskruti College of Pharm
Kondapur (V), Ghatkesar (M)
Medchal Dist. PIN-501201

SAMSKRUTI COLLEGE OF PHARMACY KONDAPURU, GHATKESAR
 AIR QUALITY ANALYSIS DETAILS AT SCOP CAMPUS

| | |
|---------------------------|-----------------------------|
| Date of Report | 09/25/2021 |
| Sample collected by | B.Pharm Final Year Students |
| Sample collection Date | 09/20/2021 |
| Sample Description & code | AIR QUALITY ANALYSIS |

| S.NO | NAME OF THE PARAMETER | TEST RESULTS | | | | NAQS LIMITS | TEST METHOD |
|------|--|-----------------------|----------------|--------------|---------------|-------------|---|
| | | COLLEGE MAIN ENTRANCE | ADMIN BUILDING | CANTEEN AREA | SPORTS GROUND | | |
| 1 | Particulate Matter (PM10) | 61.6 | 52.7 | 51 | 75 | 100 | IS 3732 Part-23 (2012) CPCB Method (NAAQS) 2012 12.05-automated method using gravimetric filter technique |
| 2 | Particulate Matter (PM2.5) | 20.1 | 15.3 | 15.3 | 25 | 60 | IS 3182 Part-2 (2012) 18.5182 Part-10 (2012) |
| 3 | Sulfur dioxide as SO ₂ (µg/m ³) | 0 | 0 | 0 | 0 | 80 | IS 3182 Part-10 (2012) |
| 4 | Nitrogen Dioxide as NO ₂ (µg/m ³) | 0 | 0 | 0 | 0 | 80 | IS 3182 Part-10 (2012) |

Checked by
 Shree Subrahma Asst. Prof.

Authorized Signatory
 Dr. V. Shrinisha, Prof.

Principal

NOISE LEVEL IN THE SURROUNDING OF SCOP



Principal


Samskruti College of Pharm.
Kondapur (V), Ghatkesar (M).
Medchal Dist. PIN-501201

Green Audit Report, SCOP-2021


SAMSKRUTI COLLEGE OF PHARMACY KONDAPUR (V), GHATKESAR.
NOISE LEVEL MEASUREMENT DETAILS AT SCOP CAMPUS

| | |
|-----------------------|-----------------------------|
| Date of Report | 09.25.2021 |
| Sample collected by | B.Pharm final year students |
| Sample collected date | 09.20.2021 |
| Sample description | Noise level measurements |

| S.NO | SAMPLING LOCATION | MEASUREMENT (DURATION IN SECS) | MINIMUM (DBA) | MAXIMUM (DBA) | AVERAGE (DBA) |
|------|-----------------------|--------------------------------|---------------|---------------|---------------|
| 1 | College main out gate | 60 | 41.5 | 73.5 | 57.5 |
| 2 | Parking area | 60 | 43 | 60.3 | 51.65 |
| 3 | Administrative block | 60 | 40.3 | 71.4 | 55.85 |
| 4 | Canteen | 60 | 48.7 | 66.9 | 56.8 |
| 5 | Main block | 60 | 48 | 74 | 62 |
| 6 | Ladies hostel | 60 | 46 | 68 | 57 |
| 7 | Sports ground | 60 | 50.5 | 75.6 | 63.05 |
| 8 | College main in gate | 60 | 52 | 72 | 62 |


Checked by
Shiva Srikrishna, Asst. Prof.


Authorized Signatory
Dr. Y. Shirisha, Prof.


Principal
Samskruti College of Pharm.
Kondapur (V), Ghatkesar (M).
Medchal Dist. PIN-501301

WATER ANALYSIS REPORT OF SCOP



Principal

Samskruti College of Pharmacy
Kondapur (V), Ghatkesar
Medchal Dist. PIN-501101

Green Audit Report, SCOP-2021

Sanskriti College of Pharmacy, Kondapur (V), Ghatkesar

Water Consumption Details at SCOP Campus

| Month | Consumption Details for 2018-19 (Liters in Lakhs) | Consumption Details for 2019-20 (Liters in Lakhs) | Consumption Detail for 2020-21 (Liters in Lakhs) |
|-----------|---|---|--|
| January | 22 | 22 | 22 |
| February | 22 | 22 | 22 |
| March | 22 | 20 | 22 |
| April | 22 | 22 | 24 |
| May | 22 | 20 | 22 |
| June | 22 | 22 | 22 |
| July | 22 | 22 | 22 |
| August | 22 | 22 | 22 |
| September | 22 | 21 | 24 |
| October | 21 | 24 | 20 |
| November | 20 | 22 | 21 |
| December | 20 | 21 | 22 |

Sanskriti College of Pharmacy, Kondapur (V), Ghatkesar.

Water Collection Details at SCOP Campus

| Month | Collection Details for 2018-19 (Liters in Lakhs) | Collection Details for 2019-20 (Liters in Lakhs) | Collection Details for 2020-21 (Liters in Lakhs) |
|-----------|--|--|--|
| January | 2.7 | 2.6 | 2.7 |
| February | 2.5 | 2.5 | 2.6 |
| March | 2.6 | 2.6 | 2.5 |
| April | 2.7 | 3 | 2.8 |
| May | 2.5 | 2.5 | 2.7 |
| June | 2.7 | 2.7 | 2.8 |
| July | 2.9 | 2.5 | 2.9 |
| August | 2.8 | 2.7 | 2.6 |
| September | 2.8 | 2.6 | 2.7 |
| October | 2.9 | 2.8 | 2.6 |
| November | 2.6 | 2.8 | 2.8 |
| December | 2.7 | 2.9 | 2.9 |

Director
Shriya Srikrishna, Asst prof
Principal

Authorized Signatory
Dr. Y. Shrusha, prof

Green Audit Report, SCOP-2021

SAMSKRUTI COLLEGE OF PHARMACY, KONDAPUR (V), GHATKESAR BORE WATER DETAILS AT SCOP CAMPUS

| | |
|-------------------------|-----------------------------|
| Date of Report | 09.25.2021 |
| Sample collected by | B.Pharm final year students |
| Sample collection Date | 09.20.2021 |
| Sample Description Code | Bore Water |

| S.NO | Parameter | Unit | Method | Result | IS 10500 limits | |
|------|--|---------|---|-----------|-----------------|---------------|
| | | | | | Acceptable | Permissible |
| 1 | pH | | APHA 23 RD EDITION, 4500 H-B | 6.71 | 65-65 | No Relaxation |
| 2 | Turbidity | NTU | APHA 23 RD EDITION, 2130 B | 2 | 2 | 2 |
| 3 | Conductivity | µMho/cm | APHA 23 RD EDITION, 2510 B | 3051 | | |
| 4 | Total dissolved Solids | mg/L | APHA 23 RD EDITION, 2540 B | 1984 | 500 | 2000 |
| 5 | Colour | CU | APHA 23 RD EDITION, 2120 B | <5 | 5 | 15 |
| 6 | Odor | | | Agreeable | Agreeable | Agreeable |
| 7 | P. Alkalinity as CaCO ₃ | mg/L | APHA 23 RD EDITION, 2320 B | <5 | | |
| 8 | Alkalinity as CaCO ₃ | mg/L | APHA 23 RD EDITION, 2320 B | 450 | 200 | 600 |
| 9 | Total Hardness as CaCO ₃ | mg/L | APHA 23 RD EDITION, 2340 B | 541 | 200 | 600 |
| 10 | Calcium as Ca | mg/L | APHA 23 RD EDITION, 3500 B | 110 | 75 | 200 |
| 11 | Magnesium as Mg | mg/L | APHA 23 RD EDITION, 3500 B | 14 | 55 | 100 |
| 12 | Sodium as Na | mg/L | APHA 23 RD EDITION, 3500 B | 321 | | |
| 13 | Potassium as K | mg/L | APHA 23 RD EDITION, 3500 B | 191 | | |
| 14 | Chloride as Cl ⁻ | mg/L | APHA 23 RD EDITION, 4500 B | 10.2 | 250 | 400 |
| 15 | Sulphates as SO ₄ ²⁻ | mg/L | APHA 23 RD EDITION, 4500 B | 0.8 | 200 | No Relaxation |
| 16 | Nitrate Nitrogen as N | mg/L | APHA 23 RD EDITION, 4500 B | <0.3 | 45 | 2.5 |
| 17 | Flourides as F | mg/L | APHA 23 RD EDITION, 2500 B | <0.1 | 1 | No Relaxation |
| 18 | Iron as Fe | mg/L | APHA 23 RD EDITION, 3500 B | <0.001 | 0.3 | 0.3 |
| 19 | Manganese as Mn | mg/L | APHA 23 RD EDITION, 5530 B | <0.01 | 0.1 | 0.002 |
| 20 | Phenols Compounds | mg/L | APHA 23 RD EDITION, 2130 B | <0.01 | 0.001 | No Relaxation |
| 21 | Cromium as Cr ⁶⁺ | mg/L | APHA 23 RD EDITION, 2130 B | <0.01 | 0.05 | 3 |
| 22 | Residual Chlorine as CL | mg/L | APHA 23 RD EDITION, 3111B | <0.01 | 0.2 | No Relaxation |
| 23 | Total cyanide | mg/L | APHA 23 RD EDITION, 3111 B | <0.01 | 0.005 | 1.5 |
| 24 | Copper as Cu | mg/L | APHA 23 RD EDITION, 3111B | <0.01 | 0.005 | No Relaxation |
| 25 | Cadmium as Cd | mg/L | APHA 23 RD EDITION, 3111B | <0.01 | 0.003 | 1.5 |
| 26 | Zinc as Zn | mg/L | APHA 23 RD EDITION, 3111B | <0.5 | 5 | No Relaxation |
| 27 | Lead as Pb | mg/L | APHA 23 RD EDITION, 3111B | <0.01 | 0.01 | 400 |

S. Srikrishna
Directed by
Shiva Srikrishna, Asst. prof

Dr. Y. Shirisha
Authorized Signatory
Dr. Y. Shirisha, prof.

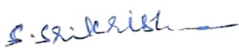
Principal

Samskruti College of Pharmacy
Kondapur (V), Ghatkesar (TA),
Medchal Dist. PIN-501 501

SAMSKRUTI COLLEGE OF PHARMACY, KONDAPUR(V), GHATKESAR.
WASTE WATER DETAILS AT SCOP CAMPUS

| | |
|-------------------------|-----------------------------|
| Date of Report | 09.25.2021 |
| Sample collected by | B.Pharm Final Year Students |
| Sample collected Date | 09.20.2021 |
| Sample Description/Code | Waste Water |

| S.NO | Parameter | Method | Unit | Result |
|------|---------------------------------|--|------|--------|
| 1 | Ph | APHA 23 RD Edition 4500 H + B | | 7.20 |
| 2 | Total Dissolved Solids | APHA 23 RD Edition 2504 C | mg/l | 706 |
| 3 | Total Suspended solids | APHA 23 RD Edition 2504 D | mg/l | 71 |
| 4 | Chemical Oxygen Demand as COD | APHA 23 RD Edition 5220 B | mg/l | 61 |
| 5 | Biological Oxygen Demand as BOD | IS : 3025(Part-44) : 2009 | mg/l | 21 |
| 6 | Oil & Grease | APHA 23 RD Edition 5520 B | mg/l | <7 |


Checked by
Shiva Sri Krishna, Asst. Prof.

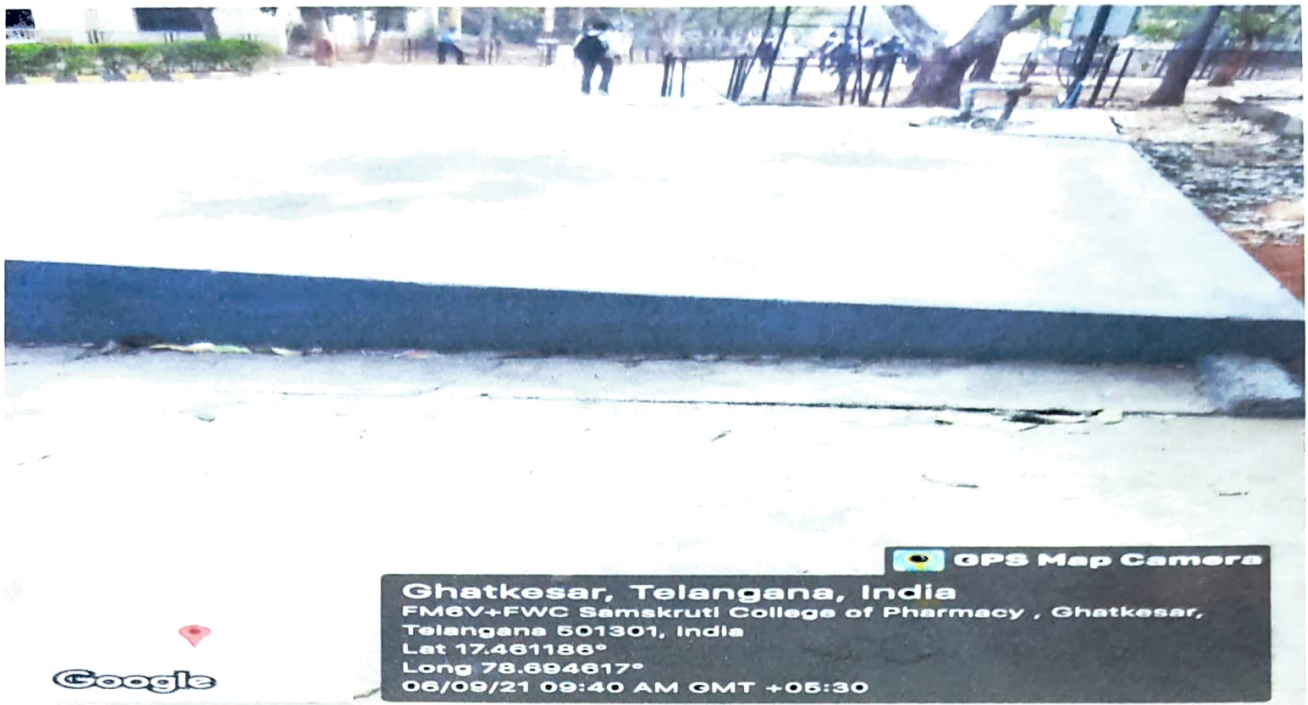

Authorised Signatory
Dr. Y. Shrishya, Prof.



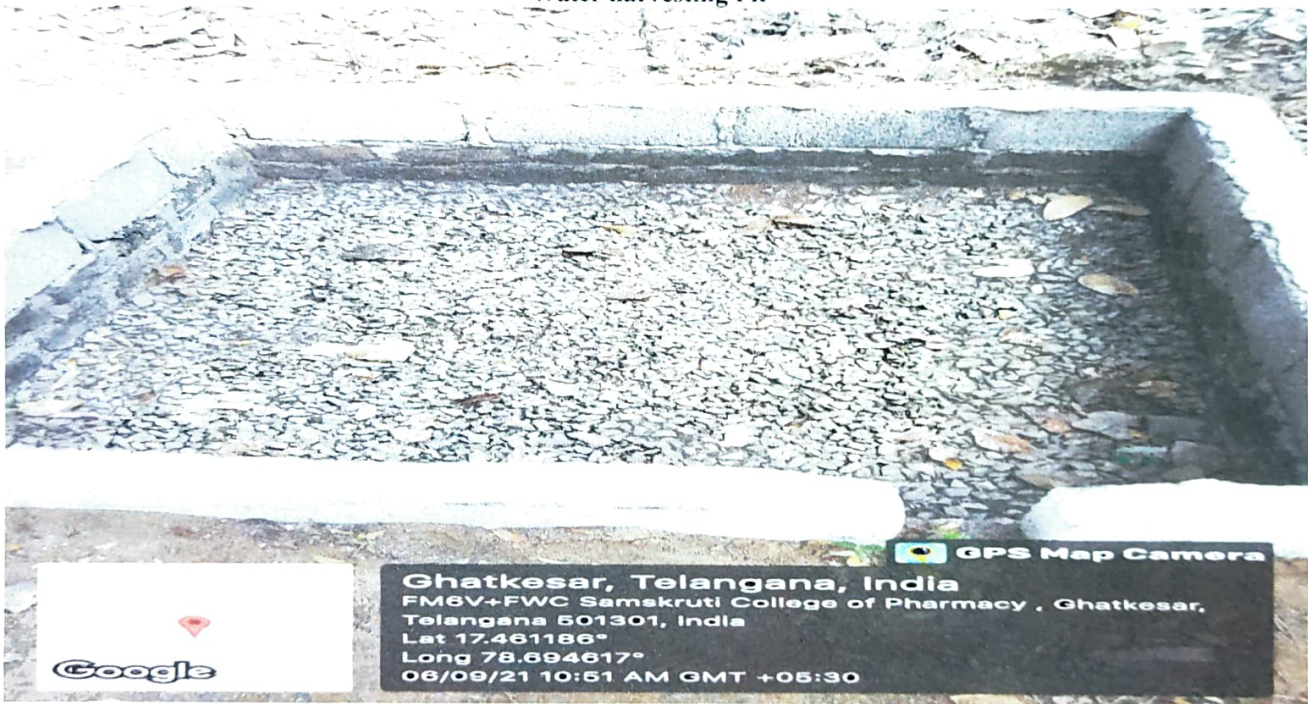
Principal

Samskruti College of Pharmacy
Kondapur (V), Ghatkesar
Medchal Dist. PIN-501 101

Common Water tank



Water harvesting Pit



Water Conservation facilities available in the Institution

Principal

Samskruti College of Pharmacy,
Kondapur (V), Chatkesar (M),
Medchal Dist. PIN-501 491

**SAMSKRUTI COLLEGE OF PHARMACY, KONDAPUR,
GHATKESAR.**

Water Consumption Details

| Month | Consumption Details for 2018-19 (Liters in Lakhs) | Consumption Details for 2019-20 (Liters in Lakhs) | Consumption Details for 2020-21 (Liters in Lakhs) |
|--------------|--|--|--|
| January | 2.0 | 2.5 | 2.3 |
| February | 2.3 | 2.0 | 2.1 |
| March | 2.0 | 2.2 | 2.2 |
| April | 2.5 | 2.3 | 2.0 |
| May | 2.2 | 2.0 | 2.3 |
| June | 2.1 | 2.2 | 2.4 |
| July | 2.5 | 2.0 | 2.3 |
| August | 2.3 | 2.3 | 2.5 |
| September | 2.2 | 2.1 | 2.4 |
| October | 2.1 | 2.4 | 2.0 |
| November | 2.0 | 2.2 | 2.1 |
| December | 2.0 | 2.1 | 2.2 |



Principal

Samskruti College of Pharmacy,
Kondapur (V), Ghatkesar (M),
Medchal Dist. PIN-501 301

**SAMSKRUTI COLLEGE OF PHARMACY, KONDAPUR,
GHATKESAR.**

Water Collection Details at SCOP Campus

| Month | Collection Details for 2018-19 (Liters in Lakhs) | Collection Details for 2019-20 (Liters in Lakhs) | Collection Details for 2020-21 (Liters in Lakhs) |
|--------------|---|---|---|
| January | 2.7 | 2.6 | 2.7 |
| February | 2.5 | 2.5 | 2.6 |
| March | 2.6 | 2.6 | 2.5 |
| April | 2.7 | 3 | 2.8 |
| May | 2.5 | 2.5 | 2.7 |
| June | 2.7 | 2.7 | 2.8 |
| July | 2.9 | 2.5 | 2.9 |
| August | 3 | 2.7 | 2.6 |
| September | 2.8 | 2.6 | 2.7 |
| October | 2.9 | 2.8 | 2.6 |
| November | 2.6 | 2.8 | 2.8 |
| December | 2.7 | 2.9 | 2.9 |



Principal

Samskruti College of Pharm: :
Kondapur (V), Ghatkesar (M).
Medchal Dist. PIN-501301

WASTE DISPOSAL AT SCOP



Principal

Samskruti College of Pharmacy
Kondapur (V), Ghatkesar (M)
Medchal Dist. PIN-501004

Waste Management

Solid waste management:

Solid waste is collected from class rooms and labs every morning by housekeeping staff in separate containers and assembled at the waste yard marked as compost pit at extreme end of the campus. Here the dry waste including paper/plastics etc. is segregated and sent in vans to recyclable joints and/or Municipal Corporation dump yard. We encourage students and staff not to use plastic items. Also we encourage them to reuse the plastic items. Many of our students are encouraged for making best from waste items by using plastic bottles etc. In our college campus NO PLASTIC sign boards and flexes are available to encourage students and staff not to use plastic item. On behalf of July 3, 2021 an International "NO PLASTIC" day, the students of Samskruti College of Pharmacy performs awareness programs in and outside the campus in nearby village.



The solid waste generated in the campus includes wrappers, glass, metals, paper, plastics, etc. Old newspapers, used papers, workshop scrap etc. are picked up by Ghatkesar municipality and moved to dump yard for recycling or other purpose. Glass, metals, plastic and other non-biodegradable wastes are given to Ghatkesar Municipality Corporation where they are segregated and disposed/ recycled according to the nature of the waste.

College adopts almost paperless concept by digitization of office procedures through electronic means via whatsApp groups, emails etc. thus, reducing paper-based waste and reduce carbon dioxide emissions. Some announcements and programmes are conducted using various apps and by sharing link to the students. Power Point presentations are also shared to student's whatsApp groups by the faculty members to reduce the wastage in paper printing as well as expenses. Use of paper printed on one side is encouraged in print drafts before final document, meeting minutes, memos and notes in office practices as environmentally preferred alternative to waste management. Biodegradable kitchen waste

Green Audit Report, SCOP-2021

from mess and cafeteria is collected in separate bins. Horticultural wastes such as dried leaves, twigs, and plant clippings are collected from all around the campus and used for bin composting. Dustbins have been installed throughout campus for waste segregation.

Students are encouraged to use waste paper and newspaper in creative practices during various extracurricular activities.

Reducing Plastic Usage: Now a days the usage of plastic has increased, which is a great problem to the environment as it takes hundreds of years for the waste plastic to decompose. Though govt. has planned to stop the usage of plastic bags the implementation of the same has become a major challenge for the government as there is very little awareness on the problems of plastic usage in general public. So, it is our duty to reduce the usage of plastic by spreading awareness on the problems associated with plastic use. Thus, our students have taken up this as challenge and started an awareness program to reduce the plastic usage. Under this activity we visited some of the streets and made people aware of how we are damaging environment by usage of plastic items.

Liquid Waste Management:

Liquid waste is generated from Science laboratories and canteen. Liquid wastes generated are of two types:

- Sewage Waste
- Laboratory and canteen effluent.

The liquid wastes are mainly drained to improve the ground level of water.

Hazardous Chemicals are kept separately in the laboratory away from the reach of students. Lab In-charge and lab-assistant takes care of the chemicals and safety norms in the laboratory are strictly followed. Students are made aware of the hazardous chemicals and

safety aspects when they are given instructions before utilizing the chemicals. The chemicals are wisely utilized for the batches of students in morning and afternoon under the guidance

of faculty. Water for washing and rinsing of glassware for cleaning is done with regular water in low amounts. The Chemicals used in the experiments are diluted and after usage the chemical waste gets mixed with routine wastewater.

E-waste management:

Electronic goods are put to optimum use; the minor repairs are set right by the laboratory assistants and the major repairs are handled by the support of technical assistants. The equipment which cannot be refurbished for re-use is dismantled and labelled as e-waste. Input devices like keyboards which are of no use are utilized by students for their typing



Principal
Jyotsna College of Pharmacy
Kondapur (V), Ghatkesar (M),
Dist. Palnast, RM-001-1

Green Audit Report, SCOP-2021

practice and teaching in a very basic level. UPS Batteries are recharged / repaired / exchanged by the suppliers. The waste compact discs and other disposable non-hazardous items are used by students for scrap art in extra-curricular activities.

Any other relevant information:

The institution conducts academic exhibition annually in the event of annual fest where the participants from schools and colleges are invited. As a part of annual fest and some other programmes this, the students of the institution makes exhibits by using solid waste like papers, water bottles, iron pieces, rubbers and other e – waste like tube lights, bulbs, etc.

Also institution held various events like scrap art, face painting etc. on the eve of National Pharmacy week celebrations.



Principal

Samskruti College of Pharmacy
Kondapur (V), Ghatkesar
Medchal Dist. PIN-501

TRANSPORTATION

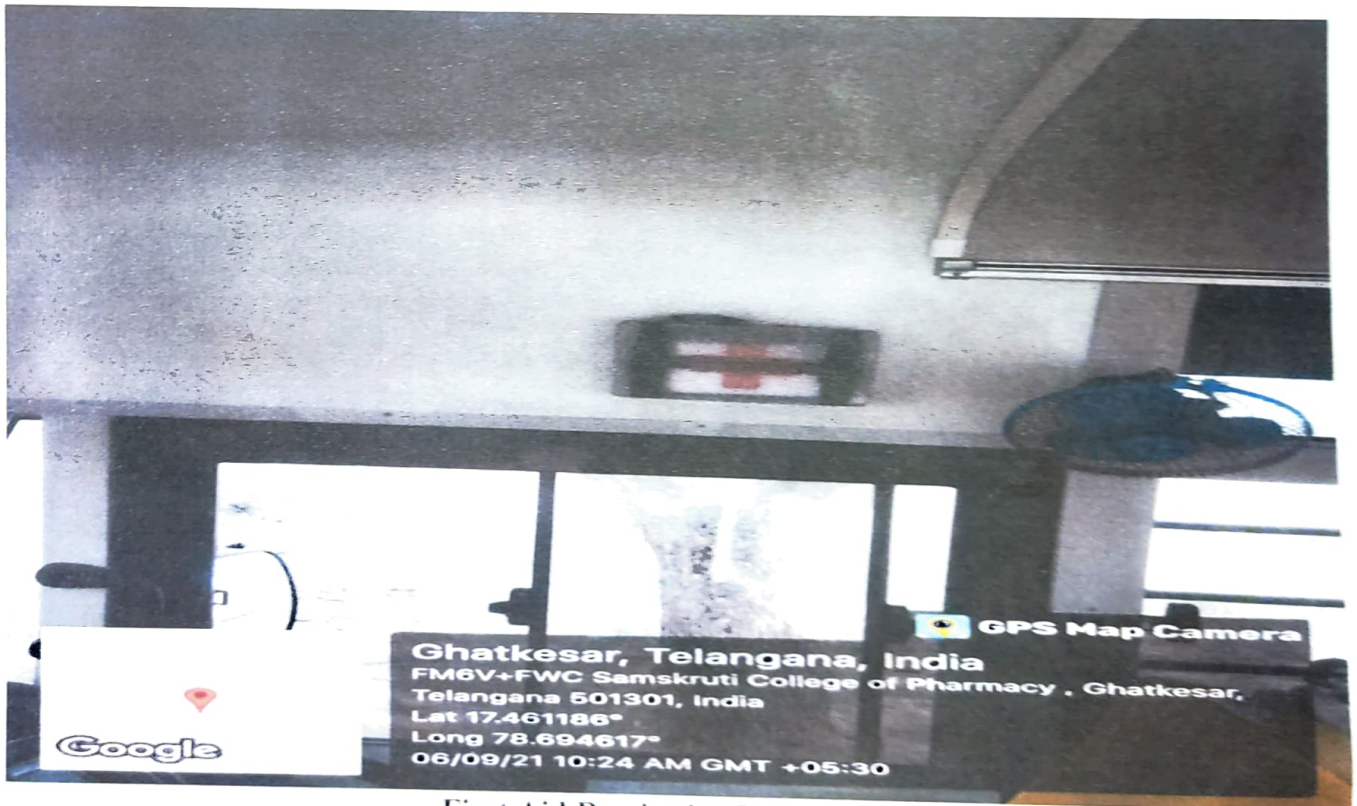


Principal

Samskruti College of Pharmacy
Kondapur (V), Chalkesari P.O.,
Medchal Dist. 501101



College bus Parking Place at SCOP



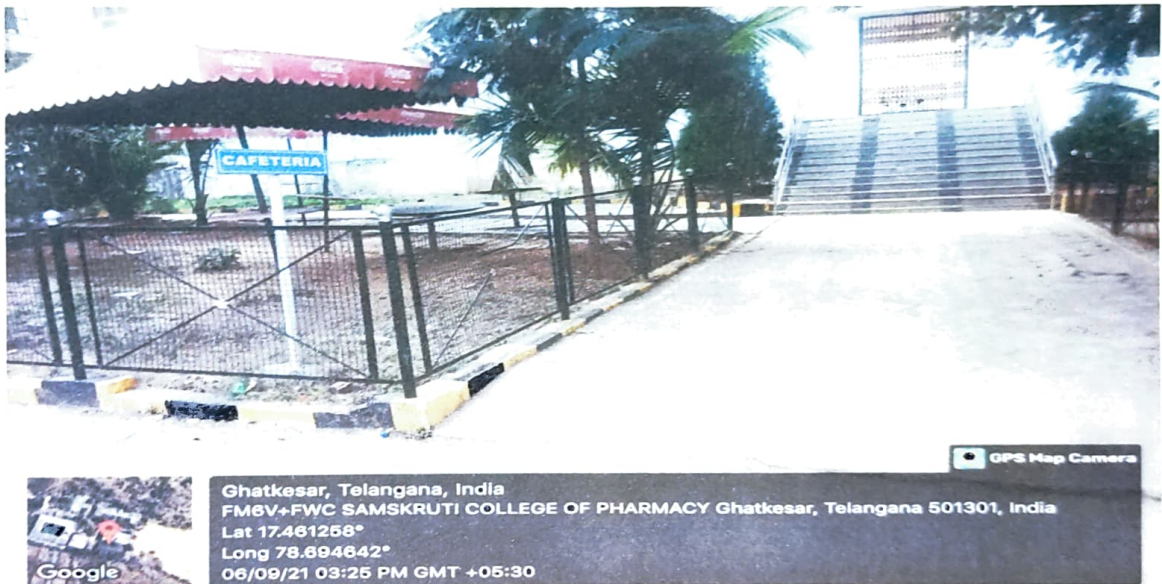
First Aid Box in the College Bus

Principal

Samskruti College of Pharmacy
Londapur (V), Ghatkesar (M),
Medchal Dist. PIN-501301



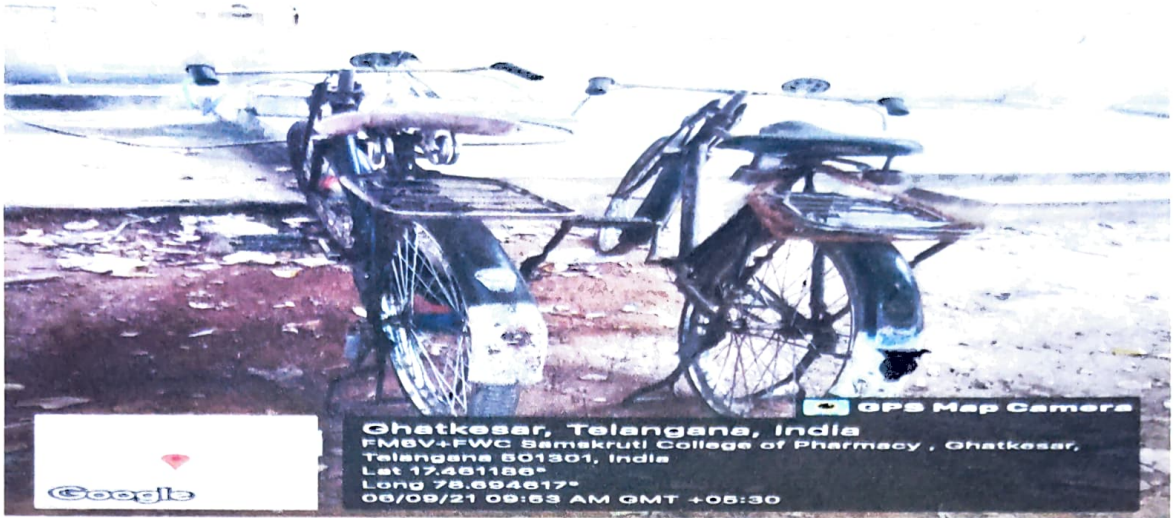
Pedestrian friendly pathways at SCOP



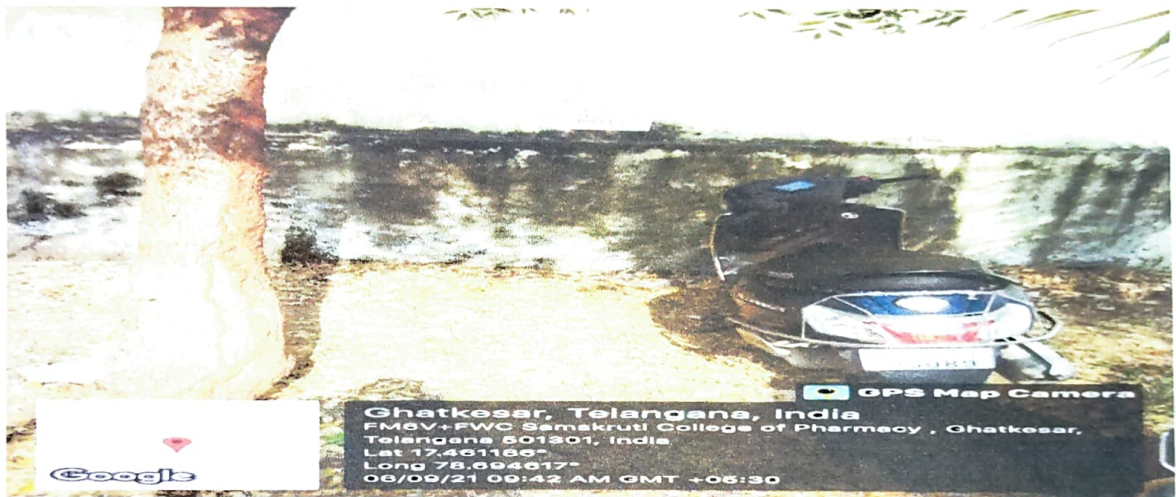
Pedestrian friendly pathways at SCOP

Principal

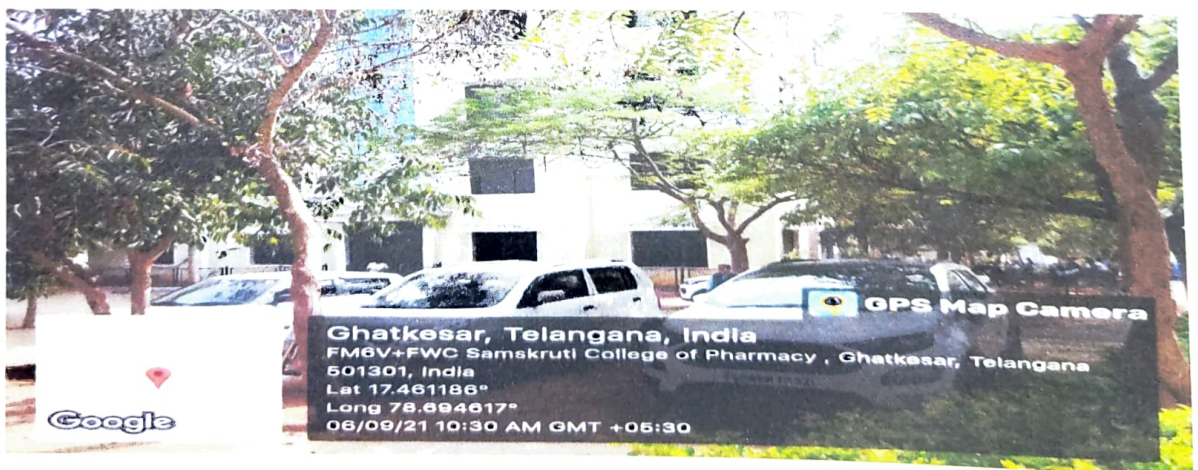
Samskruti College of Pharn.
Kondapur (V), Ghatkesar (T.
Medchal Dist. PH. 501301.



Bicycle Parking Place at SCOP



Electrical Vehicle Parking Place at SCOP



Car Parking Place at SCOP

Principal

Samskruti College of Pharmacy
Kondapur (V), Ghatkesar (TA),
Medchal Dist. PIN-501301

ELECTRICAL ENERGY CONSUMPTION AT SCOP



Principal

· nskruti College of Pharm.
Kondapur (V), Chatkesar (T.
Medchal Dist. PIN-501400

Green Audit Report, SCOP - 2021

| S.NO | Month | 2017 | 2018 | 2019 | 2020 | 2021 |
|--------------------|-----------|----------------|----------------|----------------|---------------|---------------|
| 1 | January | 8,440 | 5,809 | 8,406 | 9,499 | 3,866 |
| 2 | February | 9,680 | 14,677 | 10,863 | 11,551 | 6,806 |
| 3 | March | 12,280 | 12,819 | 13,122 | 12,960 | 9,040 |
| 4 | April | 14,140 | 11,478 | 16,546 | 7,917 | 5,004 |
| 5 | May | 10,850 | 11,699 | 15,897 | 5,812 | 7,425 |
| 6 | June | 9,150 | 14,263 | 11,850 | 5,648 | 5,826 |
| 7 | July | 6,201 | 12,879 | 16,366 | 7,108 | 5,141 |
| 8 | August | 10,468 | 15,899 | 15,805 | 7,062 | 9,975 |
| 9 | September | 9,214 | 18,005 | 16,368 | 6,054 | 9,984 |
| 10 | October | 9,160 | 12,253 | 11,170 | 7,651 | 12,531 |
| 11 | November | 8,797 | 13,306 | 12,395 | 9,277 | 10,342 |
| 12 | December | 9,285 | 11,950 | 12,326 | 8,398 | 10,317 |
| | | | | | | |
| Total (Kwh) | | 117,665 | 155,037 | 161,114 | 98,937 | 96,257 |



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Replacement of Tube lights with LED's

| S. No | Tube Lights | | | LEDs Replaced | | |
|-------|--------------|--------|-------------|---------------|--------|-------------|
| | Power Rating | Qty | Total Power | Philips Make | | |
| | | | | Power Rating | Qty | Total Power |
| 1 | 40 W | 123 No | 4.92 KW | 20 W | 104 No | 2.08 KW |

Total 9.08 KW of power consumption is reduced to 7.0 KW with the replacement of Non-LED Lamps and Tube Lights with LEDs.



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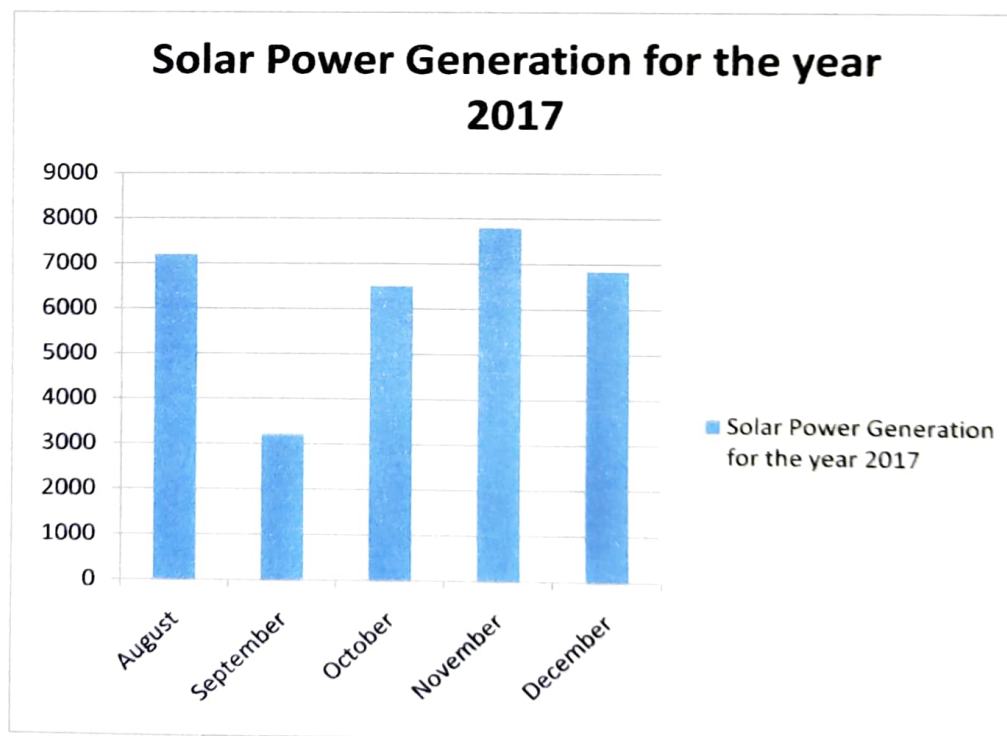
SOLAR ENERGY GENERATION IN SCOP



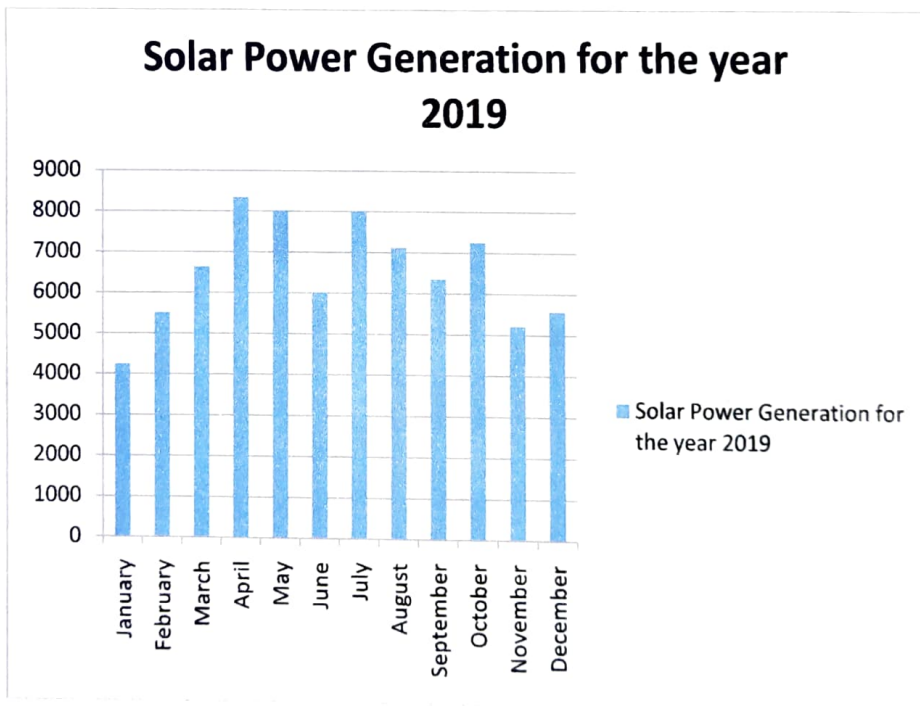
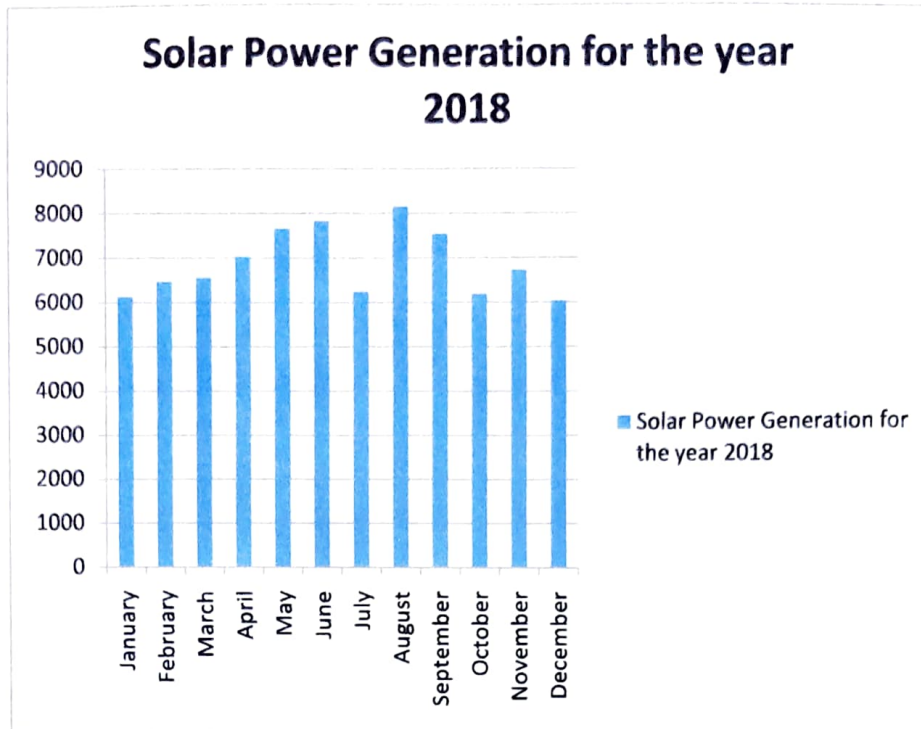
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| Solar Generation in units (KWh) | | | | | | |
|---------------------------------|-----------|---------------|---------------|---------------|---------------|---------------|
| S.NO | Month | 2017 | 2018 | 2019 | 2020 | 2021 |
| 1 | January | Nil | 6128 | 4248 | 4504 | 4207 |
| 2 | February | Nil | 6472 | 5512 | 5768 | 5471 |
| 3 | March | Nil | 6562 | 6636 | 6892 | 6599 |
| 4 | April | Nil | 7035 | 8348 | 8006 | 7256 |
| 5 | May | Nil | 7671 | 8018 | 8270 | 7425 |
| 6 | June | Nil | 7837 | 6007 | 6259 | 5966 |
| 7 | July | Nil | 6245 | 8004 | 7425 | 8035 |
| 8 | August | 7200 | 8154 | 7118 | 7342 | 7121 |
| 9 | September | 3220 | 7543 | 6352 | 6576 | 6355 |
| 10 | October | 6500 | 6196 | 7255 | 7479 | 7262 |
| 11 | November | 7800 | 6726 | 5214 | 5438 | 5221 |
| 12 | December | 6843 | 6036 | 5573 | 5797 | 5580 |
| Total (Kwh) | | 31,563 | 82,605 | 78,285 | 79,756 | 76,498 |

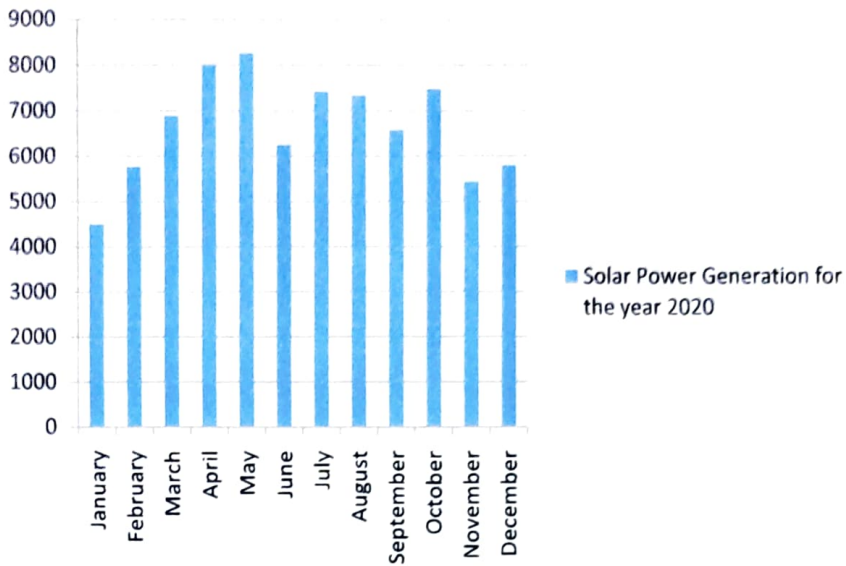



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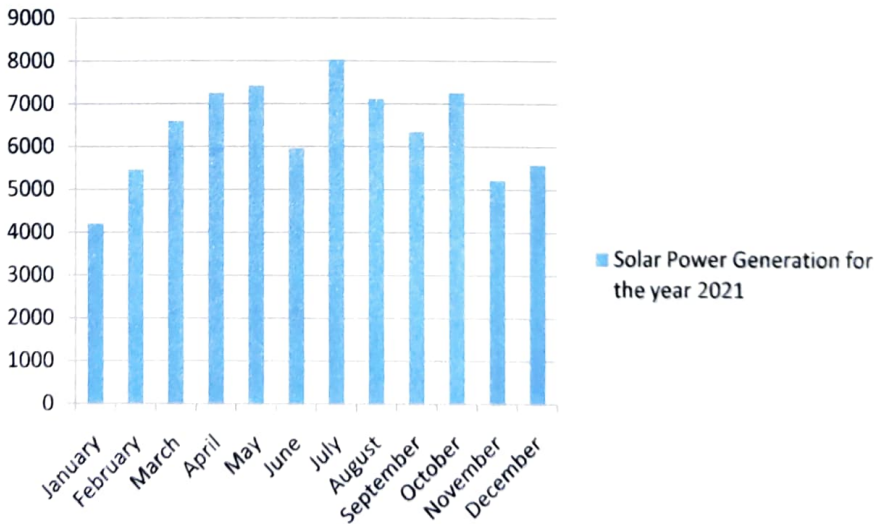


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Solar Power Generation for the year 2020



Solar Power Generation for the year 2021



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ENERGY CONSUMPTION AND EXPORT



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Solar Plant Exported Units & Imported Units from TSSPDCL for The Year 2017

| S.no | Month | Total Units Generated by solar plant(30days) | Exported units to Grid | Total Units Consumed from Solar plant | Total Units Imported from TSSPDCL | Net units consumed by the college |
|-------------|-----------|--|------------------------|---------------------------------------|-----------------------------------|-----------------------------------|
| 1 | January | NIL | NIL | NIL | 8440 | 8440 |
| 2 | February | NIL | NIL | NIL | 9680 | 9680 |
| 3 | March | NIL | NIL | NIL | 12280 | 12280 |
| 4 | April | NIL | NIL | NIL | 14140 | 14140 |
| 5 | May | NIL | NIL | NIL | 10850 | 10850 |
| 6 | June | NIL | NIL | NIL | 9150 | 9150 |
| 1 | July | NIL | NIL | NIL | 6201 | 6201 |
| 2 | August | 7200 | 2156 | 5044 | 5424 | 10468 |
| 3 | September | 3220 | 1527 | 1693 | 7521 | 9214 |
| 4 | October | 6500 | 2355 | 4145 | 5015 | 9160 |
| 5 | November | 7800 | 2636 | 5164 | 3633 | 8797 |
| 6 | December | 6843 | 1865 | 4978 | 4307 | 9285 |
| Total (KWh) | | 31563 | 10539 | 21024 | 96641 | 117665 |



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Medchal Dist. PIN-501501

Solar Plant Exported Units & Imported Units from TSSPDCL for The Year 2018

| S.no | Month | Total Units Generated by solar plant | Exported units to Grid | Total Units Consumed from Solar plant | Total Units Imported from TSSPDCL | Net units consumed by the college |
|-------------|-----------|--------------------------------------|------------------------|---------------------------------------|-----------------------------------|-----------------------------------|
| 1 | January | 6128 | 2992 | 3136 | 2673 | 5809 |
| 2 | February | 6472 | 1171 | 5301 | 9376 | 14677 |
| 3 | March | 6562 | 1132 | 5430 | 7389 | 12819 |
| 4 | April | 7035 | 1516 | 5519 | 5959 | 11478 |
| 5 | May | 7671 | 1462 | 6209 | 5490 | 11699 |
| 6 | June | 7837 | 1162 | 6675 | 7588 | 14263 |
| 7 | July | 6245 | 695 | 5550 | 7329 | 12879 |
| 8 | August | 8154 | 851 | 7303 | 8596 | 15899 |
| 9 | September | 7543 | 781 | 6762 | 11243 | 18005 |
| 10 | October | 6196 | 2084 | 4112 | 8141 | 12253 |
| 11 | November | 6726 | 1272 | 5454 | 7852 | 13306 |
| 12 | December | 6036 | 1054 | 4982 | 6968 | 11950 |
| Total (KWh) | | 82605 | 16172 | 66433 | 88604 | 155037 |



Principal

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 Medchal Dist. PIN-501301

Solar Plant Exported Units & Imported Units from TSSPDCL for The Year 2019

| S.no | Month | Total Units Generated by solar plant | Exported units to Grid | Total Units Consumed from Solar plant | Total Units Imported from TSSPDCL | Net units consumed by the college |
|-------------|-----------|--------------------------------------|------------------------|---------------------------------------|-----------------------------------|-----------------------------------|
| 1 | January | 4248 | 2151 | 2097 | 6309 | 8406 |
| 2 | February | 5512 | 1305 | 4207 | 6656 | 10863 |
| 3 | March | 6636 | 923 | 5713 | 7409 | 13122 |
| 4 | April | 8348 | 1401 | 6947 | 9599 | 16546 |
| 5 | May | 8018 | 1002 | 7016 | 8881 | 15897 |
| 6 | June | 6007 | 1199 | 4808 | 7042 | 11850 |
| 7 | July | 8004 | 321 | 7683 | 8683 | 16366 |
| 8 | August | 7118 | 738 | 6380 | 9425 | 15805 |
| 9 | September | 6352 | 701 | 5651 | 10717 | 16368 |
| 10 | October | 7255 | 1713 | 5542 | 5628 | 11170 |
| 11 | November | 5214 | 621 | 4593 | 7802 | 12395 |
| 12 | December | 5573 | 720 | 4853 | 7473 | 12326 |
| Total (KWh) | | 78285 | 12795 | 65490 | 95624 | 161114 |

In addition to making Environmental Studies a very vital subject in our syllabus, SCOP has gone a step further by putting that theory into practice. The energy from this solar installation is helping offset the institute's daytime peak electricity demand from the grid. SCOP with the installation of 64KWp solar rooftop plant and was able to offset 50% of its energy usage from the state grid thus moving towards a more reliable and greener option and reducing its carbon footprint.

The rise in global temperatures year after year poses an existential threat to the planet. The global leaders and the United Nations (UN) have been showing great concerns in various summits and conferences about measures, international laws and agreements to sustainable development and environmental conservation. No wonder, ignorance of this may result in fatal natural disasters, economic bottlenecks resulting in endangered inhabitation. The management and the administration of Samskruti College of Pharmacy in pursuance of "Going towards green" has established a Grid tied solar project to meet the electrical power requirement needs of the college and to preserve natural resources for current and future generations.

Solar Plant Exported Units & Imported Units from TSSPDCL for The Year 2020

| S.no | Month | Total Units Generated by solar plant | Exported units to Grid | Total Units Consumed from Solar plant | Total Units Imported from TSSPDCL | Net units consumed by the college |
|-------------|-----------|--------------------------------------|------------------------|---------------------------------------|-----------------------------------|-----------------------------------|
| 1 | January | 4504 | 720 | 3784 | 5715 | 9499 |
| 2 | February | 5768 | 1521 | 4247 | 7304 | 11551 |
| 3 | March | 6892 | 1293 | 5599 | 7361 | 12960 |
| 4 | April | 8006 | 2014 | 5992 | 1925 | 7917 |
| 5 | May | 8270 | 3954 | 4316 | 1496 | 5812 |
| 6 | June | 6259 | 2658 | 3601 | 2047 | 5648 |
| 7 | July | 7425 | 1926 | 5499 | 1609 | 7108 |
| 8 | August | 7342 | 1853 | 5489 | 1573 | 7062 |
| 9 | September | 6576 | 2438 | 4138 | 1916 | 6054 |
| 10 | October | 7479 | 3881 | 3598 | 4053 | 7651 |
| 11 | November | 5438 | 1730 | 3708 | 5569 | 9277 |
| 12 | December | 5797 | 1959 | 3838 | 4560 | 8398 |
| Total (KWh) | | 79756 | 25947 | 53809 | 45128 | 98937 |

The total capacity of the installation is 64 KWp (kilowatt 'peak' power output) which was established with an initial cost of 41.6lakhs. A total of 204 multi crystalline panels each with 315Wp were installed on rooftops of Engineering college building. The inverter network comprises of 3 units with 25 KVA capacity. The following show typical panel installation.

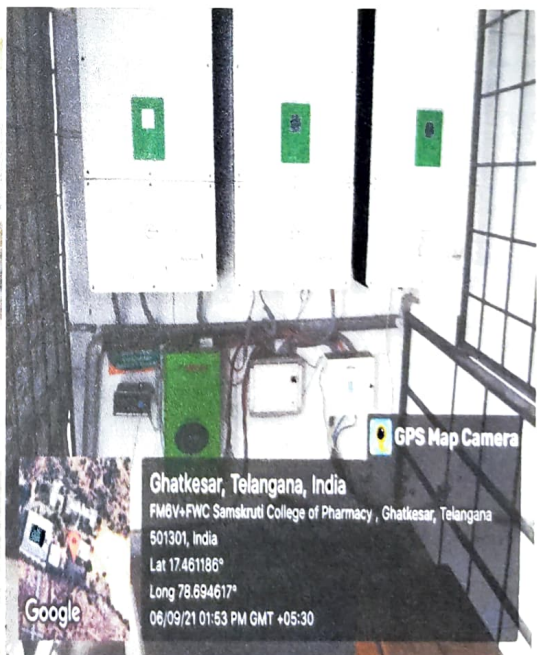
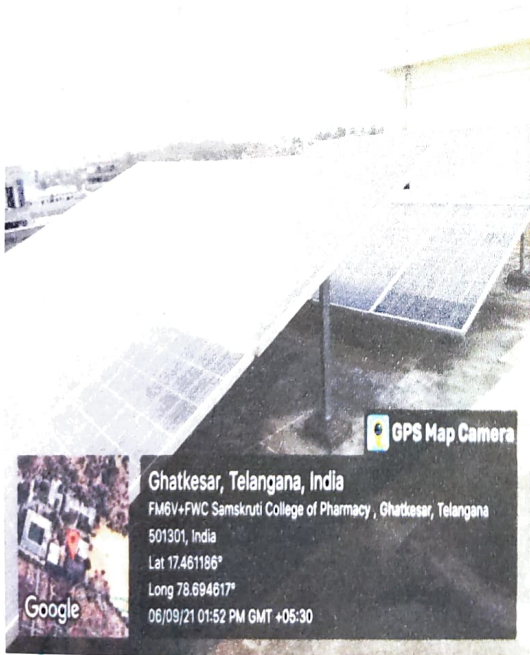
Even for power failures, solar plant is generating the power with the help of PV_DG Controller. It controls the solar power generation from 1% to 100% as per the load requirement by maintaining spinning reserve of DG at about 25-30%. Apart from this, a 20KVAR APFC panel has installed at incoming main busbar to maintain Unity Power Factor throughout a day.

In future, the college is planning to be self-sufficient for its electrical power requirements by introducing energy efficient lamps, fans and solar streetlights for contributing to the sustainable development and environmental conservation.


Principal

Solar Plant Exported Units & Imported Units from TSSPDCL for The Year 2021

| S.no | Month | Total Units Generated by solar plant(30days) | Exported units to Grid | Total Units Consumed from Solar plant | Total Units Imported from TSSPDCL | Net units consumed by the college |
|-------------|-----------|--|------------------------|---------------------------------------|-----------------------------------|-----------------------------------|
| 1 | January | 4207 | 2236 | 1971 | 1895 | 3866 |
| 2 | February | 5471 | 3423 | 2048 | 4758 | 6806 |
| 3 | March | 6599 | 3040 | 3559 | 5481 | 9040 |
| 4 | April | 7256 | 3852 | 3404 | 1600 | 5004 |
| 5 | May | 7425 | 1601 | 5824 | 1601 | 7425 |
| 6 | June | 5966 | 1300 | 4666 | 1160 | 5826 |
| 7 | July | 8035 | 5107 | 2928 | 2213 | 5141 |
| 8 | August | 7121 | 2854 | 4267 | 5708 | 9975 |
| 9 | September | 6355 | 812 | 5543 | 4441 | 9984 |
| 10 | October | 7262 | 1299 | 5963 | 6568 | 12531 |
| 11 | November | 5221 | 1893 | 3328 | 7014 | 10342 |
| 12 | December | 5580 | 605 | 4975 | 5342 | 10317 |
| Total (KWh) | | 76498 | 28022 | 48476 | 47781 | 96257 |



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EXPENDITURE ON GREEN INITIATIVES DURING THE LAST FIVE YEARS



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EXPENDITURE ON GREEN INITIATIVES DURING THE LAST FIVE YEARS

| Financial Year | Garden Maintenance (Rs) | Purchase of LED's (Rs) | Renewable sources (Solar lamps) (Rs) | Total (Rs.) |
|----------------|-------------------------|------------------------|--------------------------------------|-------------|
| 2016 - 2017 | 1,35,500/- | | | 1,35,500/- |
| 2017 - 2018 | 1,40,400/- | | | 1,40,400/- |
| 2018 - 2019 | 1,44,200/- | | | 1,44,200/- |
| 2019 - 2020 | 1,50,000/- | | | 1,50,000/- |
| 2020 - 2021 | 2,08,100/- | 1300/- | | 2,09,400/- |

-----THE END-----



Principal
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