# GREEN AUDIT REPORT 2022-2023



Samskruti college of pharmacy:: Shatkesar Kondapur, Ghatkesar, Telangana Accredited by NAAC

**Principal** 

#### Green Audit Assessment Team



## K.Siva Naga Prasad, Lead Auditor EMS/EnMS



#### K.V.Murthy,Lead Auditor EMS/EnMS



Ch.RamaRao,Lead Auditor EMS/EnMS

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### **INTRODUCTION**

#### 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.

## **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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Medabat Dist. PIN-501301

# **ABOUT THE COLLEGE**

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#### 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, about15 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

# VISION AND MISSION STATEMENTS

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#### 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 CO<sub>2</sub>emission, 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

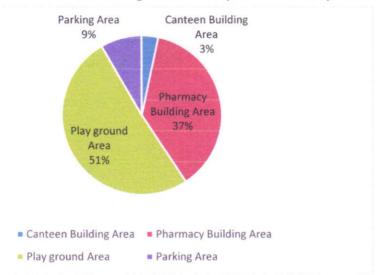
techniques.

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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**

		Measurements of room (in Sq.mts.)				
Building/Blocks Name	Level/Floor No.	Room No.	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	0	102	7 21	0.15	2.66	66.02
OF PHARMACY	U	102	7.21	9.15	3.66	66.02
SAMSKRUTI COLLEGE					2.66	67.705
OF PHARMACY	0	106	7.39	9.15	3.66	67.795
SAMSKRUTI COLLEGE					3.66	67.67
OF PHARMACY	0	107	7.39	9.15	3.00	67.67
SAMSKRUTI COLLEGE					3.66	102.46
OF PHARMACY	0	108	11.20	9.15	3.00	102.46
SAMSKRUTI COLLEGE					3.66	67.67
OF PHARMACY	0	109	7.39	9.15	3.00	67.67
SAMSKRUTI COLLEGE					2.66	CO F
OF PHARMACY	1	201	7.5	9.15	3.66	68.5
SAMSKRUTI COLLEGE						102.46
OF PHARMACY	1	202	11.20	9.15	3.66	102.46
SAMSKRUTI COLLEGE						102.46
OF PHARMACY	1	203	11.20	9.15	3.66	102.46
SAMSKRUTI COLLEGE						60.5
OF PHARMACY	1	204	7.5	9.15	3.66	68.5
SAMSKRUTI COLLEGE						16.27
OF PHARMACY	1	210	1.79	9.15	3.66	16.37
SAMSKRUTI COLLEGE						CO. F
OF PHARMACY	2	301	7.5	9.15	3.66	68.5
SAMSKRUTI COLLEGE						102.50
OF PHARMACY	2	305	11.20	9.15	3.66	102.56
SAMSKRUTI COLLEGE						CO. F
OF PHARMACY	2	310	7.5	9.15	3.66	68.5
SAMSKRUTI COLLEGE						102.56
OF PHARMACY	3	401	11.20	9.15	3.66	102.56
SAMSKRUTI COLLEGE						102.56
OF PHARMACY	3	402	11.20	9.15	3.66	102.56
SAMSKRUTI COLLEGE						172.22
OF PHARMACY	3	406	18.83	9.15	3.66	172.32
SAMSKRUTI COLLEGE						102.56
OF PHARMACY	3	408	11.20	9.15	3.66	102.56
SAMSKRUTI COLLEGE						60 5
OF PHARMACY	3	409	7.5	9.15	3.66	68.5
SAMSKRUTI COLLEGE						60 5
OF PHARMACY	3	412	7.5	9.15	3.66	68.5
SAMSKRUTI COLLEGE						68.5
OF PHARMACY	3	413	7.5	9.15	3.66	08.5
						68.5

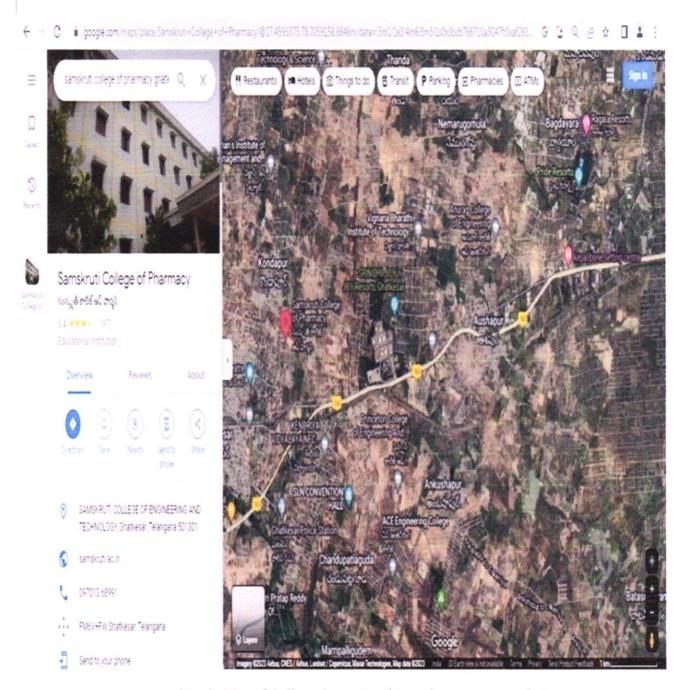
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# GEOGRAPHICAL LOCATION WITH CAMPUS MAP IN SCALE

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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

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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

Princetial adenario on the campus. A survey on trees and other greeneries within the

Samskruti Cokagpos Wastone by the students.

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	Fiery 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
29/1	Raavi chettu	Ficus religiosa	04
30	Seethaphalam	Annona reticulata	02
31	Pala chettu	Alstonias cholaris	04
PAnci	<b>Sap</b> ota	Manilkara zapota	04
	ob Rhasmacy	I .	

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Henna Tree   Lawsonia inermis	
Blue flowered rattle pod Crotalaria vessucosa L  37 Orchid plant Cymbidium orchid  38 Lane puwak Areca concinna  39 Peacock flower Caesalpinia pulcberrima  40 Lantana camera flowers Lantana camera  41 Parthenium (santa maria fever few )  42 Orchidtree (kanchon) Bauhinia variegata  43 Sickle pod Senna obtusifolia  44 Achar / chironji tree seeds Buchananialanzan  45 Vampadan climbing shrub Ventilago madeaspatana  46 Lebbeck tree Langil  47 Indian cork tree Millingtonia hortensis linn.F  48 Veld grape Cissus quadragularis  49 Cheese wood Pittosporum tobira  50 Paper flower Bougainvillea glabra  51 nilgiri Eucalyptus globulus  52 Crown of throns Euphorbia millivar  53 Papaya Carica papaya  54 Fire cracker flower Crossan drain fundibuiformis  55 Chamanthi crysanthemum  56 Ixora coccinia Rubiaceae  57 Jasminum cuspidatum Oleaceae  58 Lawsoniainermis Lythraceae  59 Mangiferaindica Anacardiaceae  60 Screwpine Pandanus veitchi  61 Lancepod Loncho carpus costaricensis  62 Earpod tree Enterolobium cyclocarpum	03
Orchid plant  Cymbidium orchid  Areca concinna  Peacock flower  Caesalpinia pulcberrima  Lantana camera  Lantana camera  Parthenium (santa maria fever few)  Corchidtree (kanchon)  Bauhinia variegata  Sickle pod  Senna obtusifolia  Achar / chironji tree seeds  Buchananialanzan  Vampadan climbing shrub  Ventilago madeaspatana  Lebbeck tree  Langil  Indian cork tree  Millingtonia hortensis linn.F  Weld grape  Cissus quadragularis  Paper flower  Sol Paper flower  Bougainvillea glabra  Inilgiri  Eucalyptus globulus  Crown of throns  Euphorbia millivar  Crossan drain fundibuiformis  Chamanthi  Crysanthemum  Kubiaceae  Jasminum cuspidatum  Oleaceae  Lancepod  Lancepod  Loncho carpus costaricensis  Enterolobium cyclocarpum	03
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Sickle pod Senna obtusifolia Buchananialanzan  Vampadan climbing shrub Ventilago madeaspatana Lebbeck tree Langil Indian cork tree Millingtonia hortensis linn.F  Veld grape Cissus quadragularis Paper flower Bougainvillea glabra Inilgiri Eucalyptus globulus Crown of throns Euphorbia millivar  Papaya Carica papaya Fire cracker flower Crossan drain fundibuiformis Chamanthi crysanthemum  Kubiaceae  Jasminum cuspidatum Oleaceae Lawsoniainermis Lythraceae Mangiferaindica Anacardiaceae Anacardiaceae Carica papus costaricensis Lancepod Lancepod Loncho carpus costaricensis Enterolobium cyclocarpum	20
44 Achar / chironji tree seeds 45 Vampadan climbing shrub 46 Lebbeck tree 47 Indian cork tree 48 Veld grape 49 Cheese wood 49 Pittosporum tobira 50 Paper flower 51 nilgiri 52 Crown of throns 53 Papaya 54 Fire cracker flower 55 Chamanthi 56 Ixora coccinia 57 Jasminum cuspidatum 58 Lawsoniainermis 59 Mangiferaindica 60 Screwpine 60 Screwpine 61 Lancepod 60 Lancepod Loncho carpus costaricensis 60 Lancel Millingtonia hortensis linn.F 61 Veltiago madeaspatana 6 Ventilago madeaspatana 6 Buchananialanzan 6 Pautilago madeaspatana 6 Potntilago madeaspatana 7 Potntilago madeaspatana 7 Potntilago madeaspatana 8 Potntilago potnti	04
Vampadan climbing shrub  Ventilago madeaspatana  Lebbeck tree  Langil  Indian cork tree  Millingtonia hortensis linn.F  Veld grape  Cissus quadragularis  Paper flower  Bougainvillea glabra  Inilgiri  Eucalyptus globulus  Crown of throns  Euphorbia millivar  Carica papaya  Fire cracker flower  Crossan drain fundibuiformis  Chamanthi  crysanthemum  Ixora coccinia  Rubiaceae  Jasminum cuspidatum  Oleaceae  Mangiferaindica  Anacardiaceae  Mangiferaindica  Crossan drain veitchi  Lancepod  Loncho carpus costaricensis  Enterolobium cyclocarpum	07
46 Lebbeck tree Langil 47 Indian cork tree Millingtonia hortensis linn.F 48 Veld grape Cissus quadragularis 49 Cheese wood Pittosporum tobira 50 Paper flower Bougainvillea glabra 51 nilgiri Eucalyptus globulus 52 Crown of throns Euphorbia millivar 53 Papaya Carica papaya 54 Fire cracker flower Crossan drain fundibuiformis 55 Chamanthi crysanthemum 56 Ixora coccinia Rubiaceae 57 Jasminum cuspidatum Oleaceae 58 Lawsoniainermis Lythraceae 59 Mangiferaindica Anacardiaceae 60 Screwpine Pandanus veitchi 61 Lancepod Loncho carpus costaricensis 62 Earpod tree Enterolobium cyclocarpum	01
47 Indian cork tree Millingtonia hortensis linn.F  48 Veld grape Cissus quadragularis  49 Cheese wood Pittosporum tobira  50 Paper flower Bougainvillea glabra  51 nilgiri Eucalyptus globulus  52 Crown of throns Euphorbia millivar  53 Papaya Carica papaya  54 Fire cracker flower Crossan drain fundibuiformis  55 Chamanthi crysanthemum  56 Ixora coccinia Rubiaceae  57 Jasminum cuspidatum Oleaceae  58 Lawsoniainermis Lythraceae  59 Mangiferaindica Anacardiaceae  60 Screwpine Pandanus veitchi  61 Lancepod Loncho carpus costaricensis  62 Earpod tree Enterolobium cyclocarpum	03
48 Veld grape Cissus quadragularis 49 Cheese wood Pittosporum tobira 50 Paper flower Bougainvillea glabra 51 nilgiri Eucalyptus globulus 52 Crown of throns Euphorbia millivar 53 Papaya Carica papaya 54 Fire cracker flower Crossan drain fundibuiformis 55 Chamanthi crysanthemum 56 Ixora coccinia Rubiaceae 57 Jasminum cuspidatum Oleaceae 58 Lawsoniainermis Lythraceae 59 Mangiferaindica Anacardiaceae 60 Screwpine Pandanus veitchi 61 Lancepod Loncho carpus costaricensis 62 Earpod tree Enterolobium cyclocarpum	05
49 Cheese wood Pittosporum tobira 50 Paper flower Bougainvillea glabra 51 nilgiri Eucalyptus globulus 52 Crown of throns Euphorbia millivar 53 Papaya Carica papaya 54 Fire cracker flower Crossan drain fundibuiformis 55 Chamanthi crysanthemum 56 Ixora coccinia Rubiaceae 57 Jasminum cuspidatum Oleaceae 58 Lawsoniainermis Lythraceae 59 Mangiferaindica Anacardiaceae 60 Screwpine Pandanus veitchi 61 Lancepod Loncho carpus costaricensis 62 Earpod tree Enterolobium cyclocarpum	07
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52 Crown of throns Euphorbia millivar 53 Papaya Carica papaya 54 Fire cracker flower Crossan drain fundibuiformis 55 Chamanthi crysanthemum 56 Ixora coccinia Rubiaceae 57 Jasminum cuspidatum Oleaceae 58 Lawsoniainermis Lythraceae 59 Mangiferaindica Anacardiaceae 60 Screwpine Pandanus veitchi 61 Lancepod Loncho carpus costaricensis 62 Earpod tree Enterolobium cyclocarpum	04
Fire cracker flower  Crossan drain fundibuiformis  Chamanthi  Crysanthemum  Rubiaceae  Jasminum cuspidatum  Oleaceae  Lawsoniainermis  Lythraceae  Mangiferaindica  Anacardiaceae  Pandanus veitchi  Lancepod  Lancepod  Earpod tree  Enterolobium cyclocarpum	05
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55 Chamanthi crysanthemum  56 Ixora coccinia Rubiaceae  57 Jasminum cuspidatum  58 Lawsoniainermis Lythraceae  59 Mangiferaindica Anacardiaceae  60 Screwpine Pandanus veitchi  61 Lancepod Loncho carpus costaricensis  62 Earpod tree Enterolobium cyclocarpum	02
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57 Jasminum cuspidatum  58 Lawsoniainermis  Lythraceae  59 Mangiferaindica  Anacardiaceae  60 Screwpine  Pandanus veitchi  61 Lancepod  Loncho carpus costaricensis  62 Earpod tree  Enterolobium cyclocarpum	02
Lythraceae  Mangiferaindica Anacardiaceae  Screwpine Pandanus veitchi  Lancepod Loncho carpus costaricensis  Earpod tree  Enterolobium cyclocarpum	02
59 Mangiferaindica Anacardiaceae 60 Screwpine Pandanus veitchi 61 Lancepod Loncho carpus costaricensis 62 Earpod tree Enterolobium cyclocarpum	03
60 Screwpine Pandanus veitchi 61 Lancepod Loncho carpus costaricensis 62 Earpod tree Enterolobium cyclocarpum	03
61 Lancepod Loncho carpus costaricensis 62 Earpod tree Enterolobium cyclocarpum	03
62 Earpod tree Enterolobium cyclocarpum	04
	03
1	20
63 Nontry cypress Cypressus and macrocarpa	06
64 Weeping fig Ficus bengamina	07
and the	06
	01
PHINC implement tree	03
College of D	02

Kondapur(V). Ghatkesar(M), Medobol Dist. PIN-501301 Green Audit Report, SCOP-2023

69	Oyster	Tradescantia spathacea	02
70	Good luck plant	Cordiyline fruticosa	01
71	Pergularia	Pergularia tomentosa	01
72	Cape honey suckle	Tecomaria capensis	07
73	Madagascar periwinkle	Catharanthus roseus	07
74	Phoenix Dactylifera	Arecaceae	03

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#### **Plantation Photo**



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Medchal Dist. PIN-501301



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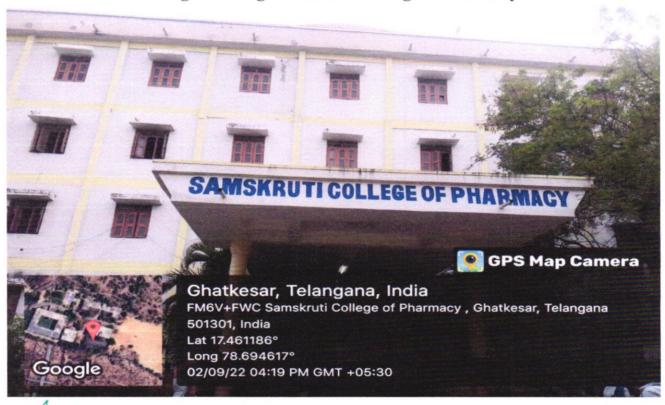
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Medchal Dist. PIN-501301

#### Green Audit Report, SCOP-2023

#### Main Entrance - Samskruti Group of Institutions

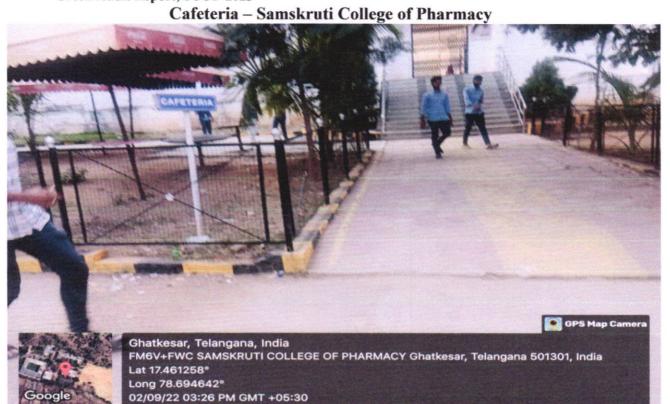


#### College Building – Samskruti College of Pharmacy

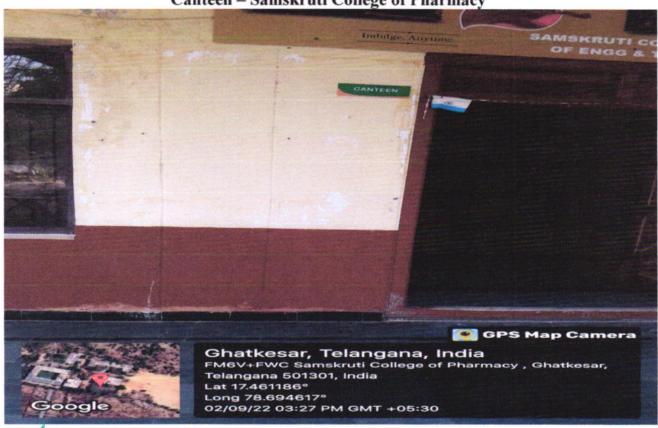


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#### Green Audit Report, SCOP-2023

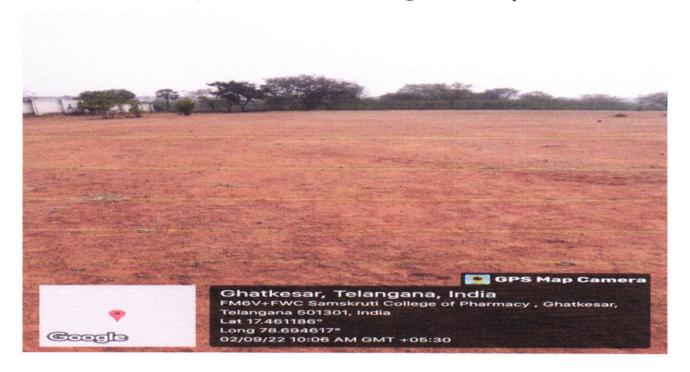


Canteen - Samskruti College of Pharmacy

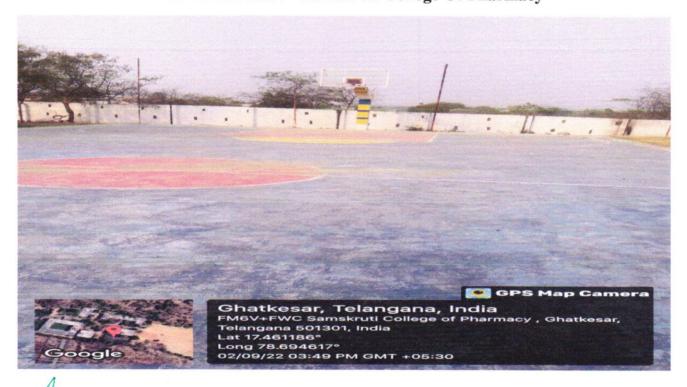


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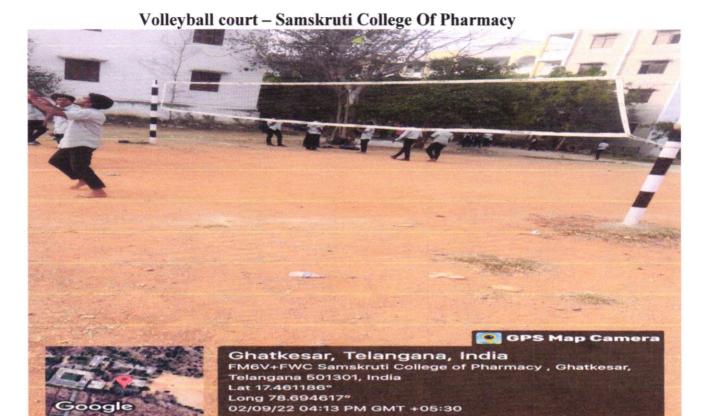
Play Ground - Samskruti College of Pharmacy



Basket ball court - Samskruti College Of Pharmacy



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# FAUNAL DIVERSITY IN SCOP

**Principal** 

#### FAUNAL DIVERSITY IN SCOP

SCOP is located in District of Medchal, Telangana India. The highest temperature is recorded 42° 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 variedly 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	Arctia 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

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Medchal Dist. PIN-501301

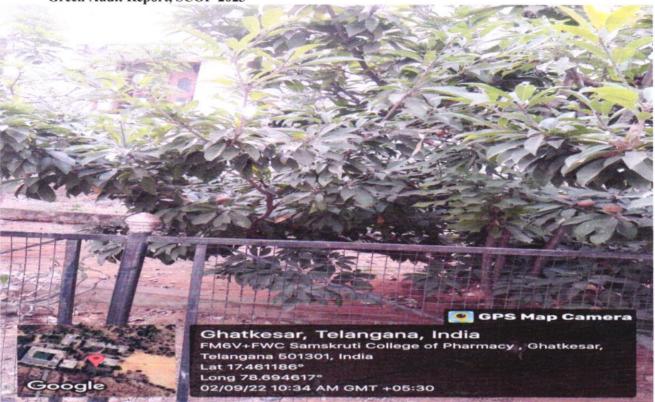
Trees and Plants- Samskruti College Of Pharmacy

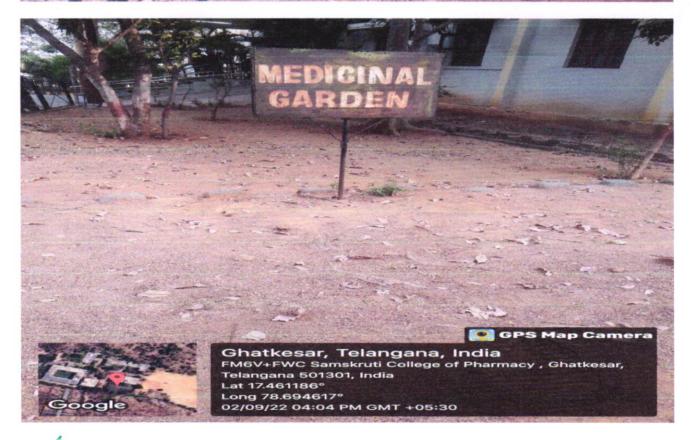


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## FLORAL DIVERSITY OF SCOP

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### Green Audit Report, SCOP-2023

### FLORAL DIVERSITY IN SCOP



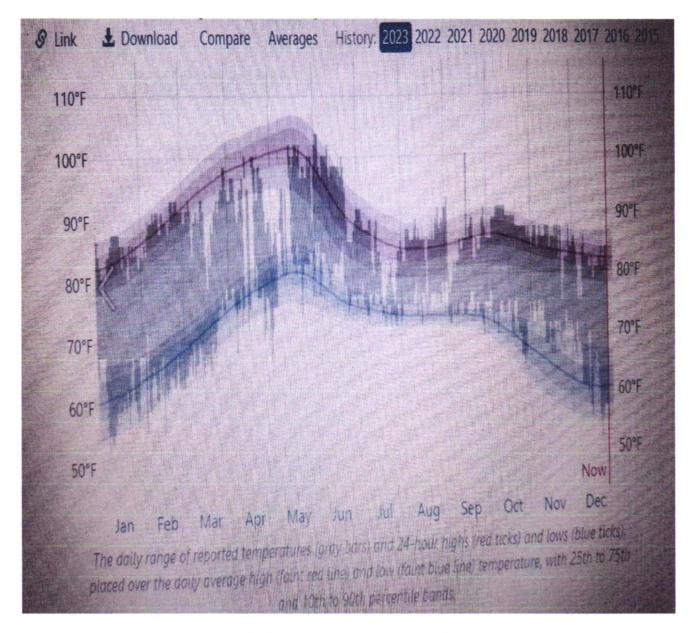


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### WEATHER DATA OF SCOP

**Principal** 

### Weather Data - 2023

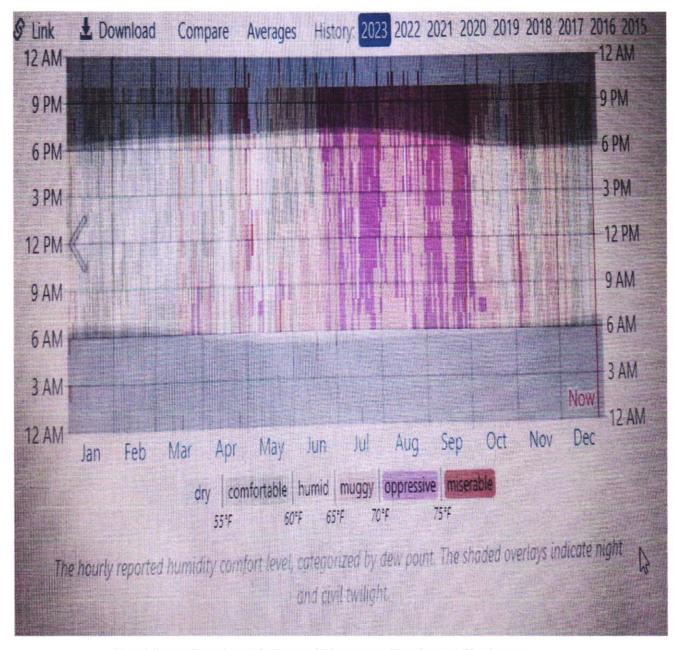


Temperature at Samskruti College of Pharmacy, Kondapur, Ghatkesar.

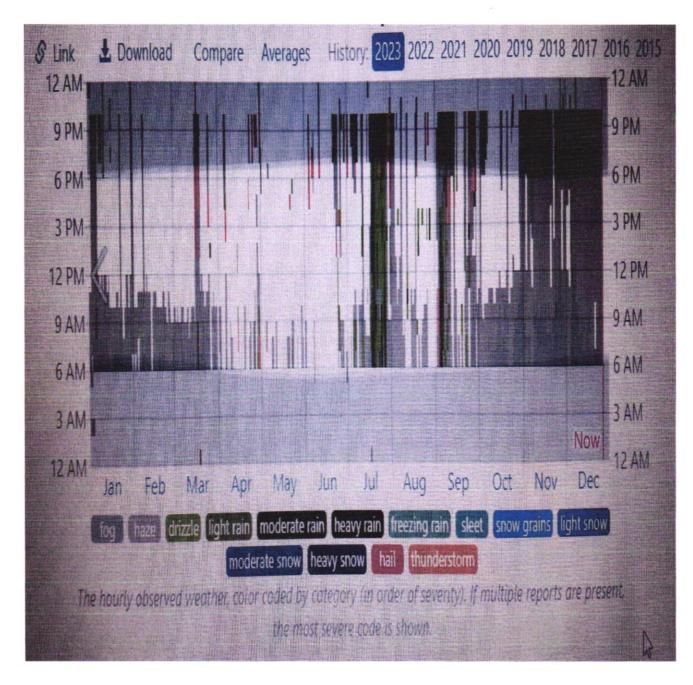
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140 mph													140 mp
120 mph													120 mp
100 mph													100 mp
80 mph ,													80 mp
60 mph													60 mp
40 mph													40 mp
20 mph								W					20 mp
Omph	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Now	0 mpt

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



Humidity at Samskruti College of Pharmacy, Kondapur, Ghatkesar.



Rainfall at Samskruti College of Pharmacy, Kondapur, Ghatkesar.

### AIR QUALITY OF SCOP

**Principal** 

SAMSKRUTI COLLEGE OF PHARMACY KONDAL AIR QUALITY ANALYSIS DETAILS AT S Sample collection Date Sample collection Date  O9.25,2023  B Pharm Final Year Students O9.20,2023  AIR QUALITY ANALYSIS  TEST RESULTS  COLLEGE MAIN ENTRANCE  Particulate Matter (PM10)  Particulate Matter (PM2.5)  Sulphur dioxide as NOX(µg/m3)  Nitrogen dioxide as NOX(µg/m3)  O  O  O  O	on Date piton/Code  THE PARAME  THE PARAME  atter (PM10)  atter (PM2.5)  de as SO2(µg/m3)  de as NOx(µg/m3)  de as NOx(µg/m3)	SAMSKRUTI COLLEGE OF PHARMACY KONDAI  AIR QUALITY ANALYSIS DETAILS AT S  OP.25,2023  B. Pharm Final Year Students OP.20,2023  AIR QUALITY ANALYSIS  TEST RESULTS  AIR QUALITY ANALYSIS  THE PARAMETER COLLEGE MAIN ENTRANCE  atter (PM10) 61.8 52.9  atter (PM2.5)  de as SO2(µg/m3) 0 0 0 0 0 15.3		4	3	b	-	S.NO				10			
O9.25.2023  B Pharm Final Year Students O9.20.2023  AIR QUALITY ANALYSIS  COLLEGE MAIN ENTRANCE  61.8  20.1  15.3  20.1  15.3	MRUTI COLLEGE OF PHARMACY KONDAPUR(V), GHA AIR QUALITY ANALYSIS DETAILS AT SCOP CAMPU  09.25,2023  B Pharm Final Year Students 09.20,2023  AIR QUALITY ANALYSIS  TEST RESULTS  TEST RESULTS  ADMIN ADMIN BUILDING AREA  61.8  52.9  20.1  15.5  15.5	AIR QUALITY ANALYSIS DETAILS AT SCOP CAMPUS  09.25.2023  B. Pharm Final Year Students 09.20.2023  AIR QUALITY ANALYSIS  TEST RESULTS  COLLEGE MAIN COLLEGE MAIN ENTRANCE  61.8  52.9  52.75  20.1  15.3  15.5  25.9  0 0 0 0 0 0 0	S. Sa. Jesuit Checked by Shiva Srikrishna, Asst. Prof.	Nitrogen dioxide as NOx(µg/m3)	Sulphur dioxide as SO2(µg/m3)	Particulate Matter (PM2.5)	Particulate Matter (PM10)	NAME OF THE PARAMETER		Sample Description/Code	Sample collection Date	sample collected by	Date of Report		SAMS
ETAILS AT S ETAILS AT S EAULTS ADMIN BUILDING 52.9 0	EST RESULTS  EST RESULTS  O  O  O  O  O  O  O  O  O  O  O  O  O	EST RESULTS  EST RESULTS  CANTEEN SPORTS BUILDING AREA GROUND  15.3 15.5 25  15.3 15.5 25  0 0 0 0  0 0 0		0	0	20.1	61.8	COLLEGE MAIN ENTRANCE		AIR QUALITY ANALYSIS	09.20.2023	B.Pharm Final Year Students	09.25.2023	All	AIR CHALLES OF PHARM
	COP CAMPU COP CAMPU AREA  15.5  15.5	COP CAMPUS  COP CAMPUS  CANTEEN SPORTS AREA GROUND  15.5  25  0  0  0  0  0		0	0	15.3	52.9	ADMIN BUILDING	EST RESULTS					E Allo All	ACY KONDA
	NAAOS LIMITIS 100 80 80 80 Pr. Y. Sh		Authorized Signatory Dr. Y. Shirisha, Prof.	IS 5182: Part- 6	15 5182: Part- 2	CPCB Manual (NAAQMS/36/2012- 13) Gravimetric method (Cyclonic Flow technique)	IS 5182: Part- 23 (2012)	TEST METHOD							

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## NOISE LEVEL IN THE SURROUNDING OF SCOP

**Principal** 

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

Date of Report	09.25,2023
Sample collected by	B.Pharm final year students
Sample collected date	09.20.2023
Sample description	Noise level measurements

S.NO	SAMPLING LOCATION	MEASUREMENT (DUBATION BY SECS.)	MINIMUM	MAXIMUM (DBA)	AVERAGE (DBA)
1		(DURATION IN SECS)	(DBA)		1
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

S. Checked by
Shiva Srikrishna, Asst. Prof.

Authorized Signatory Dr. Y. Shirisha, Prof.

**Principal** 

# WATER ANALYSIS REPORT OF SCOP

Principal

"	ollege of Pharmacy, Kond ater Consumption Deta	ils at SCOP Camp	us		
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)	Consumption Details for 2021-22 (Liters in Lakhs)	Consumption Details for 2022-23 (Liters in Lakhs)
January	2.0	2.5	2.3	2.0	2.5
February	2.3	2.0	2.1	2.3	2.0
March	2.0	2.2	2.2	2.0	2.2
April	2.5	2.3		2.5	
May	2.2	2.0	2.0		2.3
Jun	2.1	2.2	2.3	2.2	2.0
July	2.5		2.4	2.1	2.2
August	2.3	2.0	2.3	2.5	2.0
September	22	2.3	2.5	2.3	2.3
October	2.1	2.1	2.4	2.2	2.1
November		2.4	2.0	2.1	2.4
	2.0	2.2	2.1	2.0	2.2
December	2.0	2.1	2.2	2.0	2.1

<u>N</u>	ater Collection Deta	ails at SCOP Campu	<u>s</u>		
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)	Collection Details for 2021-22 (Liters in Lakhs)	Collection Details for 2022-23 (Liters in Lakhs)
January	2.7	2.6	2.7	2.7	2.6
February	2.5	2.5	2.6	2.5	2.5
March	2.6	2.6	2.5	2.6	2.6
April	2.7	3	2.8	2.7	3.0
May	2.5	2.5	2.7	2.5	2.5
June	2.7	2.7	2.8	2.7	2.7
July	2.9	2.5	2.9	2.9	2.5
August	3	2.7	2.6	3	2.7
September	2.8	2.6	2.7	2.8	2.6
October	2.9	2.8	2.6	2.9	2.8
November	2.6	2.8	2.8	2.6	2.8
December	2.7	2.9	2.9	2.7	2.9

S. Sziklin Directed by

Shiva Srikrishna, Asst. prof.

Authorized Signatory Dr. Y. Shirisha, prof.

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

Date of Report	09.25.2023
Sample collected by	B.Pharm final year students
Sample collection Date	09.20.2023
Sample Description /Code	Bore Water

S.NO	Parameter	Unit	Method	Result	IS 10500 lim	iits
					Acceptable	Permissible
ī	pH		APHA 23 <sup>RD</sup> EDITION, 4500 H+B	6.75	65.65	No Relaxation
7	Turbidity	NTU	APHA 23 <sup>RD</sup> EDITION, 2130 B	2	2	2
3	Conductivity	μMho/cm	APHA 23 <sup>RD</sup> EDITION, 2510 B	3055		
4	Total dissolved Solids	mg/L	APHA 23 <sup>RD</sup> EDITION, 2540 B	1986	500	2000
5	Colour	CU	APHA 23 <sup>RD</sup> EDITION, 2120 B	<5	5	15
6	Odor		, diates delition, service	Agreeable	Agreeable	Agreeable
7	P. Alkalinity as caco <sub>3</sub>	mg/L	APHA 23 <sup>RD</sup> EDITION,2320 B	<5		
8	Alkalinity as caco <sub>3</sub>	mg/L	APHA 23 <sup>RD</sup> EDITION,2320 B	450	200	600
9	Total Hardness as caco <sub>3</sub>	mg/L	APHA 23 <sup>RD</sup> EDITION, 2340 B	543	200	600
10	Calcium as ca	mg/L	APHA 23 <sup>RD</sup> EDITION,3500 B	110	75	200
11	Magnesium as Mg	mg/L	APHA 23 <sup>RD</sup> EDITION, 3500 B	14	55	100
12	Sodium as Na	mg/L	APHA 23RD EDITION,3500 B	320		
13	Potassium as K	mg/L	APHA 23 <sup>RD</sup> EDITION, 3500 B	190		
14	Chloride as Cl	mg/L	APHA 23 <sup>RD</sup> EDITION, 4500 B	10.3	250	400
15	Sulphates as So <sub>4</sub>	mg/L	APHA 23 <sup>RD</sup> EDITION, 4500 B	0.8	200	No Relaxation
16	Nitrate Nitrogen as N	mg/L	APHA 23 <sup>RD</sup> EDITION, 4500 B	<0.3	45	2.5
17	Flourides as F	mg/L	APHA 23 <sup>RD</sup> EDITION, 2500 B	<0.1	1	No Relaxation
18	Iron as Fe	mg/L	APHA 23 <sup>RD</sup> EDITION, 3500 B	< 0.001	0.3	0.3
19	Manganese as Mn	mg/L	APHA 23 <sup>RD</sup> EDITION, 5530 B	<0.01	0.1	0.002
20	Phenois Compounds	mg/L	APHA 23 <sup>RD</sup> EDITION, 2130 B	<0.01	0.001	No Relaxation
21	Cromium as Cr	mg/L	APHA 23 <sup>RD</sup> EDITION, 2130 B	<0.01	0.05	3
22	Residual Chlorine as CL	mg/L	APHA 23 <sup>RD</sup> EDITION, 3111B	<0.01	0.2	No Relaxation
23	Total cyanide	mg/L	APHA 23 <sup>RD</sup> EDITION,3111 B	<0.01	0.005	1.5
24	Copper as Cu	mg/L	- APHA 23 <sup>RD</sup> EDITION,3111B	<0.01	0.005	No Relaxation
25	Cadmium as Cd	mg/L	APHA 23 <sup>RD</sup> EDITION,3111B	<0.01	0.003	1.5
26	Zinc as Zn	mg/L	APHA 23 <sup>RD</sup> EDITION,3111B	< 0.5	5	No Relaxation
27	Lead as Pb	mg/L	APHA 23 <sup>RD</sup> EDITION,3111B	<0.01	0.01	400

S. SPULLIUM
Directed by
Shiva Srikrishna, Asst. prof

Authorized Signatory Dr. Y. Shirisha, prof.

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

Date of Report	09.25.2023
Sample collected by	B.Pharm Final Year Students
Sample collected Date	09.20.2023
Sample Description/Code	Waste Water

S.NO	Parameter	Method	Unit	Result
1	Ph	APHA 23 <sup>RD</sup> Edition 4500 H +		7.22
2	Total Dissolved Solids	APHA 23 <sup>RD</sup> Edition 2504 C	mg/l	708
3	Total Suspended solids	APHA 23 <sup>RD</sup> Edition 2504 D	mg/l	71
4	Chemical Oxygen Demand as COD	APHA 23 <sup>RD</sup> Edition 5220 B	mg/l	60
5	Biological Oxygen Demand as BOD	IS: 3025(Part-44): 2009	mg/l	22
6	Oil & Grease	APHA 23 <sup>RD</sup> Edition 5520 B	mg/l	<7

S. Srikhish.
Checked by Shiva Sri Krishna, Asst. Prof.

Authorised Signatory Dr. Y. Shrisha, Prof.

Principal



Coogle

Water harvesting Pit

RAIN WATER
HARVESTING

GPS Map Camera

Chatkesar, Telangana, India
FMSV+FWC Samskruti College of Pharmacy, Ghatkesar,
Telangana 501301, India
Lat 17.461186°
Long 78.694617°
02/09/22 10:50 AM GMT +05:30

Water Conservation facilities available in the Institution

Principal

	SAMSKRUTI COI	LEGE OF PHARM	MACY, KOND	APUR, GHATKI	ESAR.
		Water Consun	nption 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)	Consumption Details for 2021-22 (Liters in Lakhs)	Consumption Details for 2022-23 (Liters in Lakhs)
January	2.0	2.5	2.3	2.0	2.5
February	2.3	2.0	2.1	2.3	2.0
March	2.0	2.2	2.2	2.0	2.2
April	2.5	2.3	2.0	2.5	2.3
May	2.2	2.0	2.3	2.2	2.0
June	2.1	2.2	2.4	2.1	2.2
July	2.5	2.0	2.3	2.5	2.0
August	2.3	2.3	2.5	2.3	2.3
September	2.2	2.1	2.4	2.2	2.1
October	2.1	2.4	2.0	2.1	2.4
November	2.0	2.2	2.1	2.0	2.2
December	2.0	2.1	2.2	2.0	2.1

5	SAMSKRUTI COL	LEGE OF PHARM	ACY, KOND	APUR, GHATKES	SAR.
	Wa	ter Collection Detail	ils at SCOP C	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)	Collection Details for 2021-22 (Liters in Lakhs)	Collection Details for 2022-23 (Liters in Lakhs)
January	2.7	2.6	2.7	2.7	2.6
February	2.5	2.5	2.6	2.5	2.5
March	2.6	2.6	2.5	2.6	2.6
April	2.7	3	2.8	2.7	3.0
May	2.5	2.5	2.7	2.5	2.5
June	2.7	2.7	2.8	2.7	2.7
July	2.9	2.5	2.9	2.9	2.5
August	3	2.7	2.6	3	2.7
September	2.8	2.6	2.7	2.8	2.6
October	2.9	2.8	2.6	2.9	2.8
November	2.6	2.8	2.8	2.6	2.8
December	2.7	2.9	2.9	2.7	2.9

## WASTE DISPOSAL AT SCOP

**Principal** 

### 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 

Principal final document, meeting minutes, memos and notes in office practices as 

Samskruti College of Pharmacy preferred alternative to waste management. Biodegradable kitchen waste

Horticultural was tesuch as driedle aves, twigs, and plant clippings are collected from all around the account of the control of the contro

is

cafeteria

and

Medala Distrom 504mess

collected

in

separate

bins.

Green Audit Report, SCOP-2023

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 took 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:

Prin Cassistants and the major repairs are handled by the support of technical assistants. The Samskruti Colle equipment which cannot be refurbished for re-use is dismantled and labelled as e-waste.

Kondapur(V). Ghatkesar(M) like keyboards which are of no use are utilized by students for their typing 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

Green Audit Report, SCOP-2023

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.

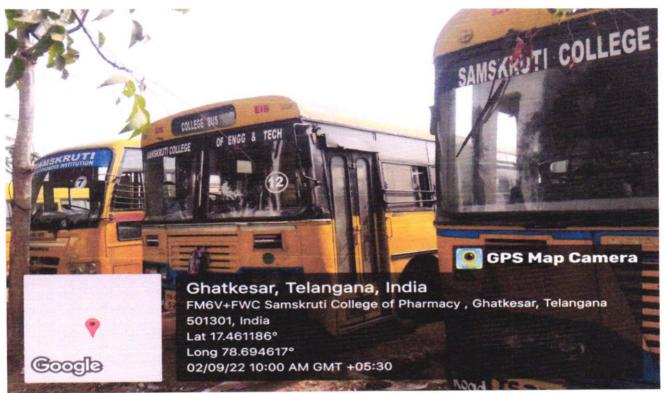
Also institution held various events like scrap art, face painting etc. on the eve of National

Pharmacy week celebrations.

Principal

### **TRANSPORTATION**

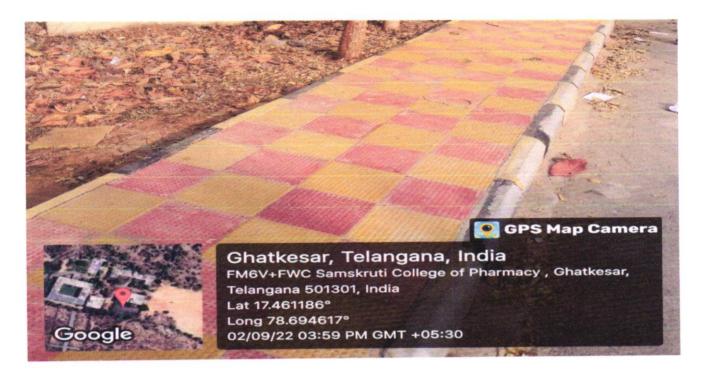
**Principal** 

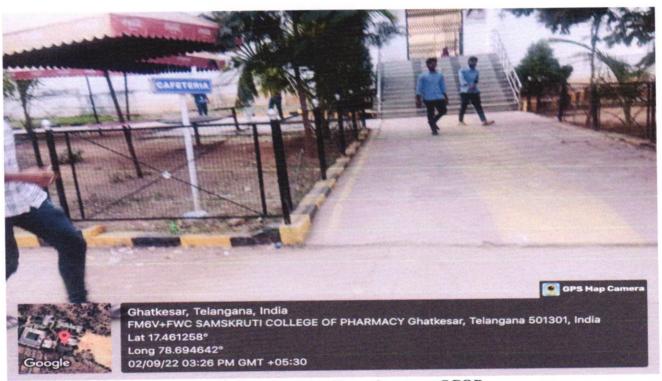


College bus Parking Place at SCOP

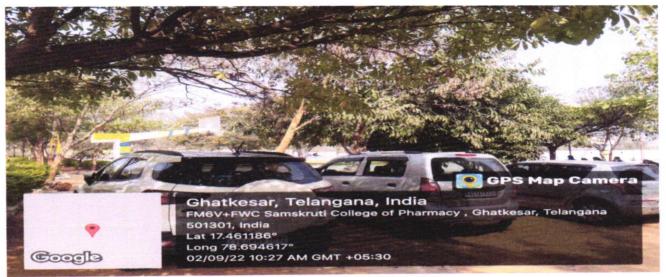


First Aid Box in the College Bus





Pedestrian friendly pathways at SCOP



Car Parking Place at SCOP



**Electronic Vehicle Parking at SCOP** 



Principal

Bicycle Parking at SCOP

# ELECTRICAL ENERGY CONSUMPTION AT SCOP

**Principal** 

	<b>ELECTRICAL CONSUMPTION OF SCOP (2018-2023)</b>							
S.NO	Month	2018	2019	2020	2021	2022	2023	
1	January	5,809	8,406	9,499	3,866	7,063	11,037	
2	February	14,677	10,863	11,551	6,806	5,815	9,388	
3	March	12,819	13,122	12,960	9,040	9,779	10,250	
4	April	11,478	16,546	7,917	5,004	17,117	17,601	
5	May	11,699	15,897	5,812	7,425	17,573	15,528	
6	June	14,263	11,850	5,648	5,826	13,158	18,467	
7	July	12,879	16,366	7,108	5,141	16,843	13,826	
8	August	15,899	15,805	7,062	9,975	15,080	17,900	
9	September	18,005	16,368	6,054	9,984	14,529	15,685	
10	October	12,253	11,170	7,651	12,531	9,826	14,135	
11	November	13,306	12,395	9,277	10,342	11,569	13,294	
12	December	11,950	12,326	8,398	10,317	11,879		
Tot	Total (Kwh)		161,114	98,937	96,257	150,231	157,111	

### Replacement of Tube lights with LED's

C No		Tube Lig	hts	LEDs Replaced Philips Make			
	Power Rating	Qty	Total Power				
S. No				Power Rating	Qty	Total Power	
1	40 W	83 No	3.32 KW	20 W	144 No	2.88 KW	

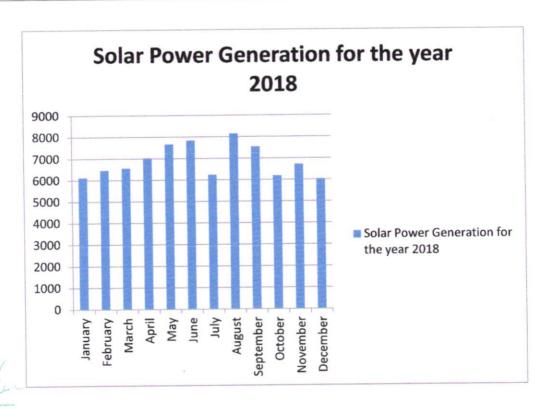
Total 9.08 KW of power consumption is reduced to 6.2 KW with the replacement of Non-LED Lamps and Tube Lights with LEDs.

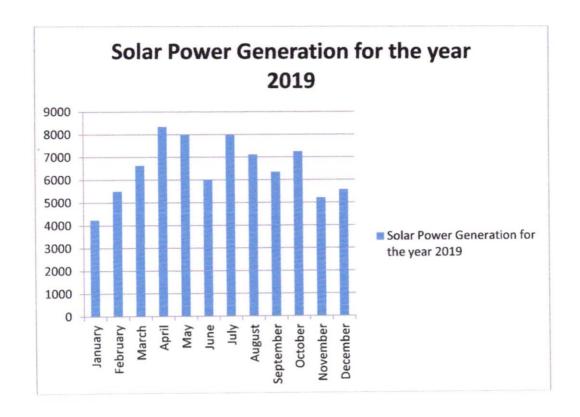
Principal

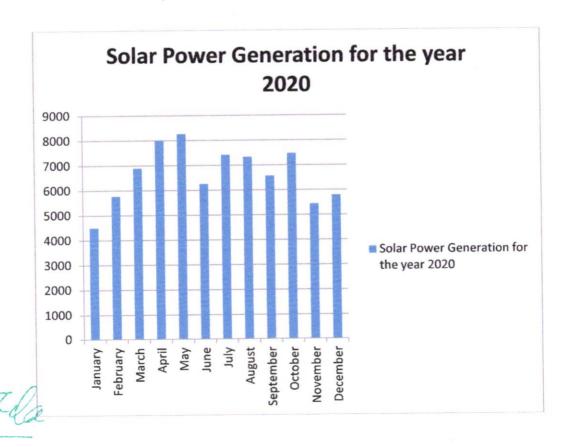
### SOLAR ENERGY GENERATION IN SCOP

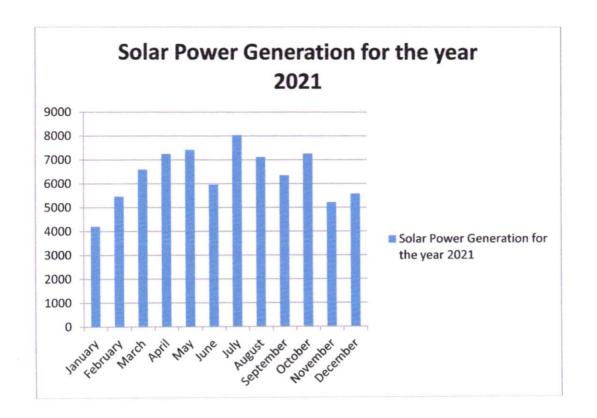
Principal

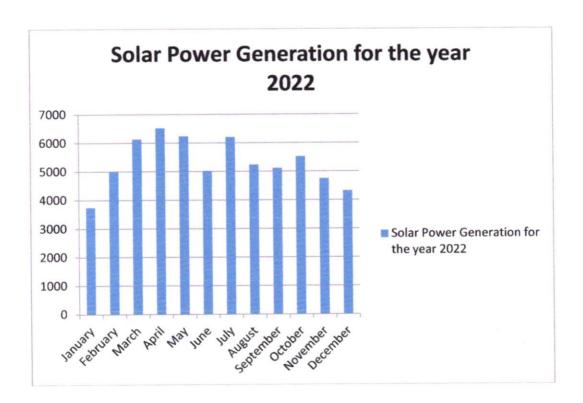
Solar Generation in units (KWh)								
S.NO	Month	2018	2019	2020	2021	2022	2023	
1	January	6128	4248	4504	4207	3743	4523	
2	February	6472	5512	5768	5471	5007	3214	
3	March	6562	6636	6892	6599	6135	3012	
4	April	7035	8348	8006	7256	6525	3851	
5	May	7671	8018	8270	7425	6241	3974	
6	June	7837	6007	6259	5966	5024	3427	
7	July	6245	8004	7425	8035	6210	3105	
8	August	8154	7118	7342	7121	5241	3586	
9	September	7543	6352	6576	6355	5121	2950	
10	October	6196	7255	7479	7262	5524	4328	
11	November	6726	5214	5438	5221	4749	4120	
12	December	6036	5573	5797	5580	4321		
Total (Kwh)		82,605	78,285	79,756	76,498	63,841	40,090	

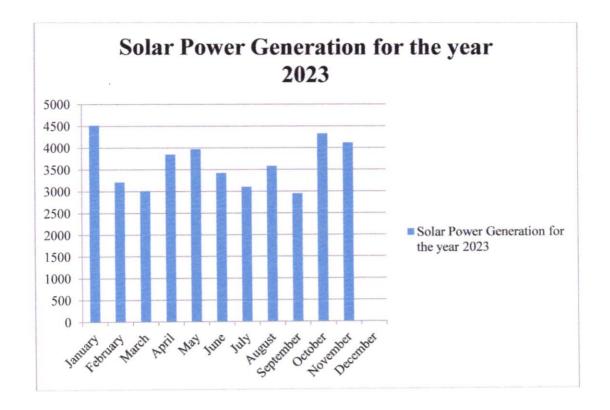












**Principal** 

### ENERGY CONSUMPTION AND EXPORT

Principal

#### 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
То	tal (KWh)	82605	16172	66433	88604	155037



#### 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
Tot	tal (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 inhabitance. 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 agenerations.

**Principal** 

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
Tot	tal (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
	tal (KWh)	76498	28022	48476	47781	96257

#### Solar Plant Exported Units & Imported Units from TSSPDCL for The Year 2022

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	3743	1227	2516	4547	7063
2	February	5007	3239	1768	4047	5815
3	March	6135	584	5551	4228	9779
4	April	6525	860	5665	11452	17117
5	May	6241	748	5493	12080	17573
6	June	5024	556	4468	8690	13158
7	July	6210	163	6047	10796	16843
8	August	5241	305	4936	10144	15080
9	September	5121	734	4387	10142	14529
10	October	5524	1360	4164	5662	9826
11	November	4749	1356	3393	8176	11569
12	December	4321	428	3893	7986	11879
	0					
Tot	al (KWh)	63841	11560	52281	97950	150231

#### Solar Plant Exported Units & Imported Units from TSSPDCL for The Year 2023

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	4523	1316	3207	7830	11037
2	February	3214	1000	2214	7174	9388
3	March	3012	676	2336	7914	10250
4	April	3851	551	3300	14301	17601
5	May	3974	309	3665	11863	15528
6	June	3427	175	3252	15215	18467
7	July	3105	211	2894	10932	13826
8	August	3586	120	3466	14434	17900
9	September	2950	180	2770	12915	15685
10	October	4328	494	3834	10301	14135
11	November	4120	1082	3038	10256	13294
12	December					
Tot	tal (KWh)	40090	6114	33976	123135	157111



Principal

# EXPENDITURE ON GREEN INITIATIVES DURING THE LAST FIVEYEARS

Principal

#### 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.)
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/-
2021 - 2022	2,46,835/-			2,46,835/-
2022-2023	2,15,000/-	10,560/-	-	2,25,560/-

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

**Principal** 

#### Certificate of Registration

GMCSPL hereby certify that the organization

#### SAMSKRUTI COLLEGE OF PHARMACY

Kondapur, Ghatkesar, Medchal Malkajgiri District, Telangana-501301

Has established and applies a Energy Management System in accordance with

ISO 50001:2018

For the scope of activities:

Provision of quality pharmacy education focussing on community and patient health care and indulging in research and development for future growth of pharmacy profession.

181201R-EM

Certificate Number

31 December 2018 Date of Initial Registration 31 December 2022 Date of Last Issue

30 December 2023

Date of Expiry







Certificate is Valid for 2 Years (31.12.2022 to 30.12.2024) From the Date of Last Issue. Upon Successful Completion of Surveillance Audit New Certificate With an Extended Validity will be issued.

Global Management Certification Services Pvt.Ltd.

#402, Plot No. 410, Matrusri Nagar, Miyapur, Serilingampally, Hyderabad – 500 049, India 
www.mcsglobal in, E.mail info@mcsglobal in
Accredited by: Quality Accreditation Council, Accreditation No. i16102, www.qacin.org
This certificate is the property of GMCSPI, and shall be returned upon request by GMCSPI.
The Registration does not assure the quality of yields under the firm's production.

F-50 ( Version 4.00, 28.08.2017

Kondapur (V), Ghatkesar (M), Medchal Dist. PIN-501301

#### Certificate of Registration

GMCSPL hereby certify that the organization

#### SAMSKRUTI COLLEGE OF PHARMACY

Kondapur, Ghatkesar, Medchal Malkajgiri District, Telangana- 501301

Has established and applies an Environmental Management System in accordance with

ISO 14001:2015

For the scope of activities:

Provision of quality pharmacy education focussing on community and patient health care and indulging in research and development for future growth of pharmacy profession.

181202R-E

Certificate Number

31 December 2018

Date of Initial Registration

31 December 2022 Date of Last Issue

30 December 2023

Date of Expiry







Certificate is Valid for 2 Years (31.12.2022 to 30.12.2024) From the Date of Last Issue. Upon Successful Completion of Surveillance Audit New Certificate With an Extended Validity will be issued.

Signed on behalf of GMCSPL

Principal
Samskruti College of Pharmacy
Kondapur(V) Shatkesar(M).

Global Management Certification Services Pvt.Ltd.

#402, Plot No.410, Matrusri Nagar, Miyapur, Serilingampally, Hyderabad - 500 049, India
www.mcsglobal.in, E.mail:info@mcsglobal in
Accredited by: Quality Accreditation Council Accredited by: Quality Accreditation Council

Accredited by: Quality Accreditation Council, Accreditation No.116102, www.qacin.org
This certificate is the property of GMCSPL, and shall be returned upon request by GMCSPL
The Registration does not assure the quality of yields under the firm's production.

F-50 ( Version 4.00, 28.08.2017

#### Certificate of Registration

GMCSPL hereby certify that the organization

#### SAMSKRUTI COLLEGE OF PHARMACY

Kondapur, Ghatkesar, Medchal Malkajgiri District, Telangana- 501301

Has established and applies a Quality Management System in accordance with

ISO 9001:2015

For the scope of activities:

Provision of quality pharmacy education focussing on community and patient health care and indulging in research and development for future growth of pharmacy profession.

Q-211211

Certificate Number

31 December 2022 Date of Last Issue

31 December 2018

Date of Initial Registration

30 December 2023 Date of Expiry









Certificate is Valid for 2 Years (31.12.2022 to 30.12.2024) From the Date of Last Issue. Upon Successful Completion of Surveillance Audit New Certificate With an Extended Validity will be issued.

Signed on behalf of GMCSPL

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#402, Plot No.410, Matrusri Nagar, Miyapur, Serilingampally, Hyderabad – 500 049, India www.mcsglobal.in, E.mail:info@mcsglobal.in

This certificate is the property of GMCSPL, and shall be returned upon request by GMCSPL.

The Registration does not assure the quality of yields under the firm's production.

F-50 ( Version 4 00, 28 08 2017

Kondapur (V), Ghatkesar (M), Medchal Dist. PIN-501381

### GREEN AUDIT REPORT 2021-2022



Samskruti college of pharmacy:: Chatkesar Kondapur, Ghatkesar, Telangana Accredited by NAAC

**Principal** 

#### Green Audit Assessment Team



#### K.Siva Naga Prasad, Lead Auditor EMS/EnMS



K.V.Murthy,Lead Auditor EMS/EnMS



Ch.RamaRao,Lead Auditor EMS/EnMS

**Principal** 

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Sr. No.	Titles/Topics
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3	METHODOLOGY
4	ABOUT THE COLLEGE
5	VISION & MISSION STATEMENT
6	GREEN AUDITING
7	LAND USE ANALYSIS AT SCOP
8	GEOGRAPHICAL LOCATION WITH CAMPUS MAP IN SCALE
9	TREE DIVERSITY OF SCOP
10	FAUNAL DIVERSITY IN SCOP
11	FLORAL DIVERSITY IN SCOP
12	WEATHER DATA OF SCOP
13	AIR QUALITY OF SCOP
14	NOISE LEVEL IN THE SURROUNDING OF SCOP
15	WATER ANALYSIS REPORT OF SCOP
16	WASTE DISPOSAL AT SCOP
17	TRANSPORTATION AT SCOP
18	ELECTRICAL POWER CONSUMPTION AT SCOP
19	EXPENDITURE ON GREEN INITIATIVES DURING THE LAST FIVE YEARS

Principal

#### **INTRODUCTION**

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#### 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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#### 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, about15 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	<b>Programme Code</b>	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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#### 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**

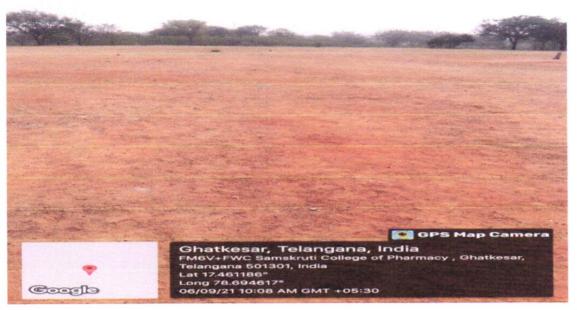
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#### **GREEN AUDITING**

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 CO<sub>2</sub>emission, 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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Green Audit Report, SCOP-2022

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.

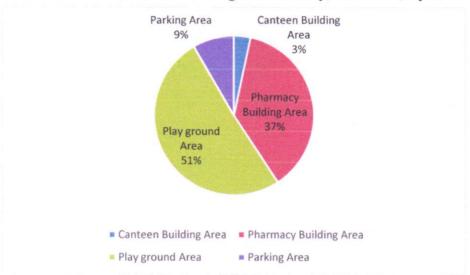
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#### LAND USE DATA OF SCOP, Ghatkesar

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**

			Mea	surements	of room (ii	n Sq.mts.)	
Building/Blocks Name	Level/Floor No.	Room No.	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	Level/Floor	Room	Length	Breadth	Height	Area (L*b)
Name	No.	No.	-			
SAMSKRUTI COLLEGE	0	102	7.21	9.15	3.66	66.02
OF PHARMACY						
SAMSKRUTI COLLEGE					3.66	67.795
OF PHARMACY	0	106	7.39	9.15		
SAMSKRUTI COLLEGE					3.66	67.67
OF PHARMACY	0	107	7.39	9.15		
SAMSKRUTI COLLEGE	25				3.66	102.46
OF PHARMACY	0	108	11.20	9.15	0.00	
SAMSKRUTI COLLEGE					3.66	67.67
OF PHARMACY	0	109	7.39	9.15	5.00	07.07
SAMSKRUTI COLLEGE					3.66	68.5
OF PHARMACY	1	201	7.5	9.15	5.00	00.0
SAMSKRUTI COLLEGE						102.46
OF PHARMACY	1	202	11.20	9.15	3.66	102.40
SAMSKRUTI COLLEGE						102.46
OF PHARMACY	1	203	11.20	9.15	3.66	102.40
SAMSKRUTI COLLEGE						68.5
OF PHARMACY	1	204	7.5	9.15	3.66	00.5
SAMSKRUTI COLLEGE						16.37
OF PHARMACY	1	210	1.79	9.15	3.66	10.57
SAMSKRUTI COLLEGE						68.5
OF PHARMACY	2	301	7.5	9.15	3.66	00.5
SAMSKRUTI COLLEGE						102.56
OF PHARMACY	2	305	11.20	9.15	3.66	102.50
SAMSKRUTI COLLEGE						68.5
OF PHARMACY	2	310	7.5	9.15	3.66	08.5
SAMSKRUTI COLLEGE						102.56
OF PHARMACY	3	401	11.20	9.15	3.66	102.50
SAMSKRUTI COLLEGE						102.56
OF PHARMACY	3	402	11.20	9.15	3.66	102.50
SAMSKRUTI COLLEGE						172.32
OF PHARMACY	3	406	18.83	9.15	3.66	1/2.52
SAMSKRUTI COLLEGE						102.56
OF PHARMACY	3	408	11.20	9.15	3.66	102.56
SAMSKRUTI COLLEGE						68.5
OF PHARMACY	3	409	7.5	9.15	3.66	08.3
SAMSKRUTI COLLEGE						68.5
OF PHARMACY	3	412	7.5	9.15	3.66	08.5
SAMSKRUTI COLLEGE						68.5
OF PHARMACY	3	413	7.5	9.15	3.66	08.5
CANTEEN BUILDING	1	105	7.5	9.15	3.66	68.5

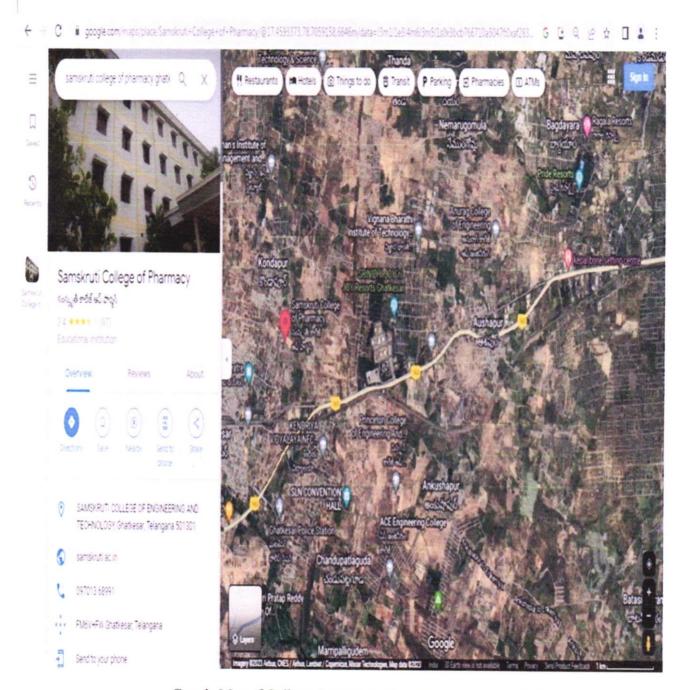
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## GEOGRAPHICAL LOCATION WITH CAMPUS MAP IN SCALE

**Principal** 

#### 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

**Principal** 

## 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

Principal scenario on the campus. A survey on trees and other greeneries within the

Samskruti Coffengust was done by the students.

Kondapur(V). Ghatkesar(M), Medchal Dist, PIN-501301

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		Fiery Costus	Chamaecostus Cuspidatus	02
9		Cayenne jasmine	Catharanthus roseus	02
10	)	Guava	Pisidium guava	06
11		Anjeer	Ficus Carica	01
12	2	Parijata	Cestrum Nocturnum	02
13	3	Indian plum	Ziziphus mauritiana	07
14	1	Sago palm	Cycas	02
15	5	Jennifer	Aster ericoides	01
16	5	Pomegranate	Punica granatum	03
17	7	Aloevera	Aloe barbadensis	18
18	3	Sea hibiscus	Talipara	02
19	)	Vepachettu	Azadirachta indica	20
20	)	Nereduchettu	Syzygiumcumini (L.) Skeels	02
21		Coconut	Cocos nucifera	04
22	2	Christmas Tree	Araucaria columnaris	06
23	3	Oyster plant	tradiscantia	03
24	ŀ	Badam	Terminalia catappa	08
25	5	Usirikaaya	Phyllanthus emblica	04
26	5	Kanuga	Millettia Pinnata	09
27	7	Mango	Mangifera indica	03
128	Zd	Marri chettu	Ficus benghalensis	02
29	)	Raavi chettu	Ficus religiosa	04
30	)	Seethaphalam	Annona reticulata	02
31		Pala chettu	Alstonias cholaris	04
P312	inc	i Sapota	Manilkara zapota	04
Kondana C	olleg	e of Pharmacy Drumstick hatkesar(M),	Moringa oleifera	02

Kondapur(V). Chatkesar(M), Medabal Dist. PIN-501301

		en Audit Report, SCOP-2022		02
	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	Buchananialanzan	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 throns	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
1	63	Nontry cypress	Cypressus and macrocarpa	06
-/	64/	Weeping fig	Ficus bengamina	07
VU	65	Coat buttons	Tridax procumbens	06
	Princ	indian pulai	Alstroniascholaris	01
	ti60olle	eTo nin harmacy	Tabebuia roser	03
Konda Meda	our(V). (	Brush Berry, PIN-501301	Syzygiamaustrale	02

69	Oyster	Tradescantia spathacea	02
70	Good luck plant	Cordiyline fruticosa	01
71	Pergularia	Pergularia tomentosa	01
72	Cape honey suckle	Tecomaria capensis	07
73	Madagascar periwinkle	Catharanthus roseus	07
74	Phoenix Dactylifera	Arecaceae	03

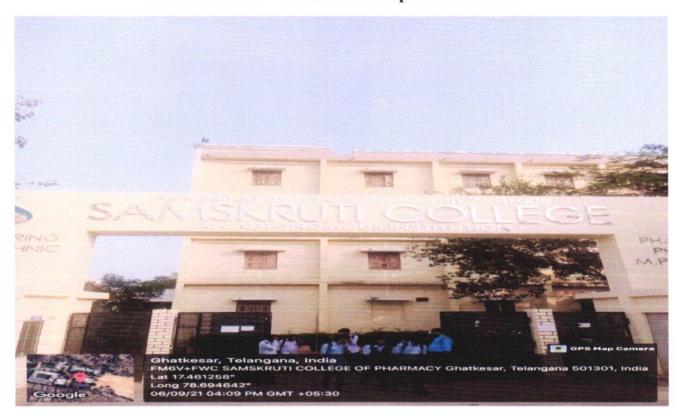
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## **Plantation Photos**

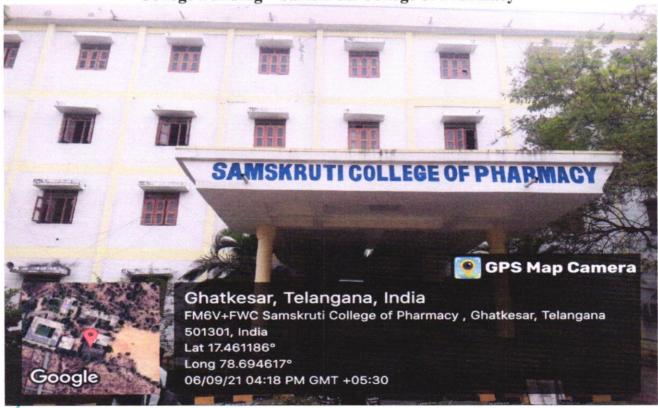




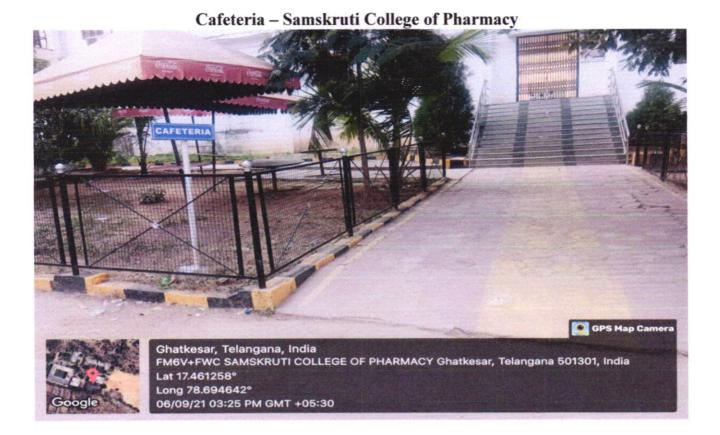
## Main Entrance – Samskruti Group of Institutions

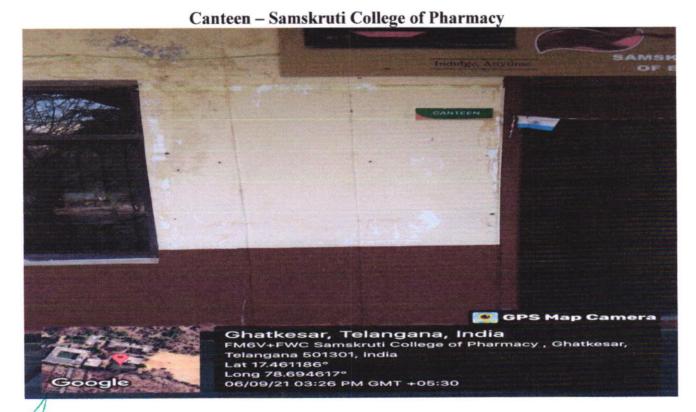


College Building - Samskruti College of Pharmacy



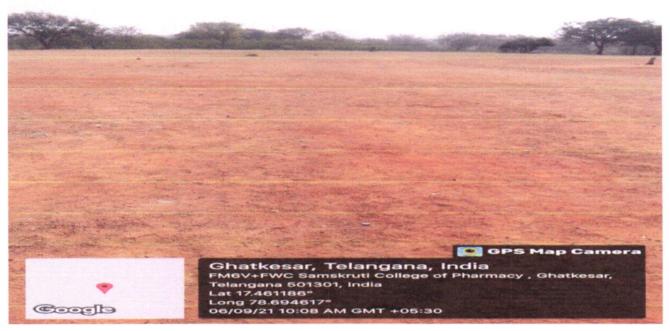
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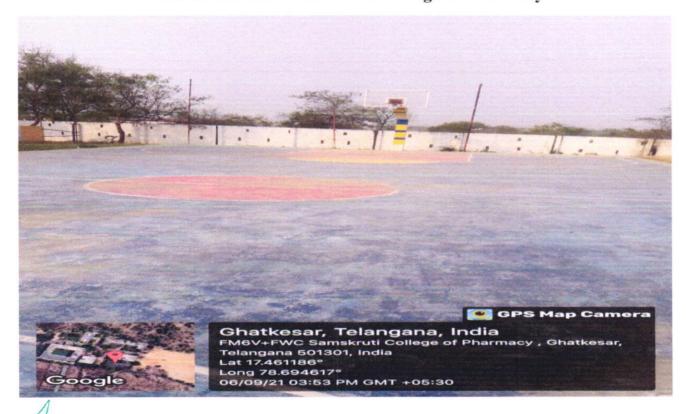


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## Play Ground - Samskruti College of Pharmacy

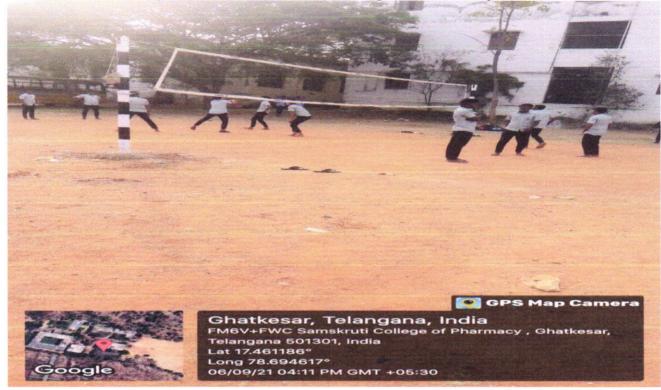


Basket ball court - Samskruti College Of Pharmacy



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# FAUNAL DIVERSITY IN SCOP

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## FAUNAL DIVERSITY IN SCOP

SCOP is located in District of Medchal, Telangana India. The highest temperature is recorded 42° 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 variedly of flora and fauna to support its rich biodiversity. The faunal Diversity of SCOP campus has been studied and documented as below:

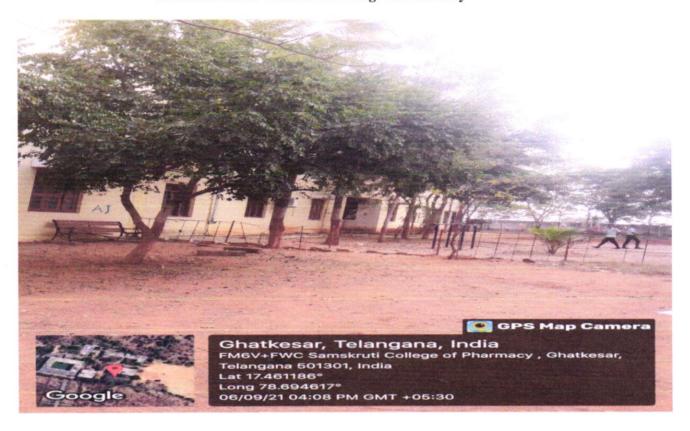
S.No	CommonName	ScientificName
1.	Common Myna	Acridotheres Tristis
2.	House Sparrow	Passer Domesticus
	House Crow	Corvus Splendens
	Cuckoo	Cuculidae
5.	Snake	Naja Naja
6.	Yellow Wasp	Ropalidia Marginata
7.	Butter Fly	Danaus Genutia
8.	Honey bees	Apis
9.	Common Wood shrike	Tephrodornis Pondicerianus
10.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

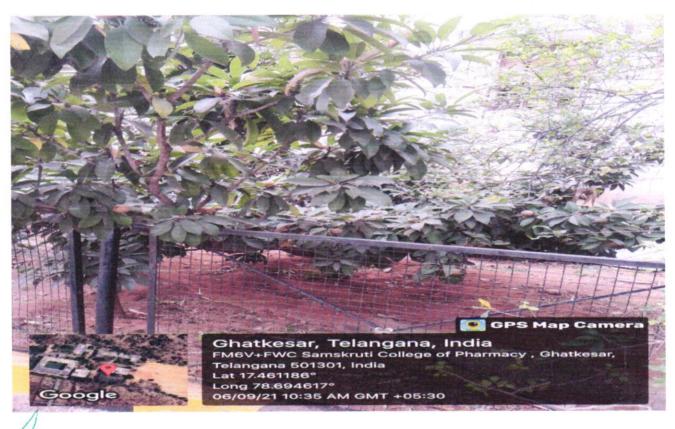
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## Green Audit Report, SCOP-2022 Trees and Plants- Samskruti College of Pharmacy





**Principal** 

Green Audit Report, SCOP-2022 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 04:06 PM GMT +05:30

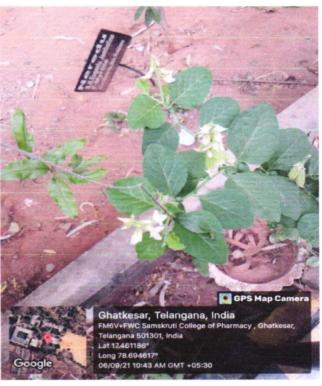
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## FLORAL DIVERSITY OF SCOP

**Principal** 

## FLORAL DIVERSITY IN SCOP







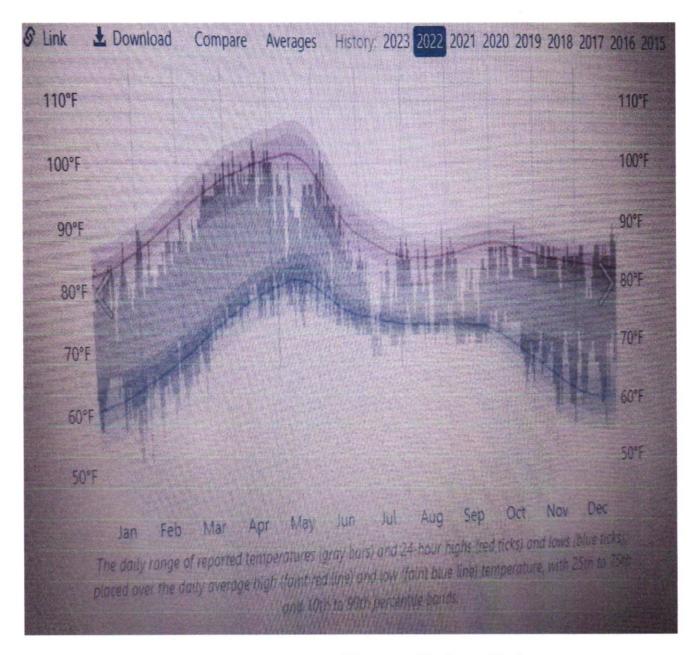


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## WEATHER DATA OF SCOP

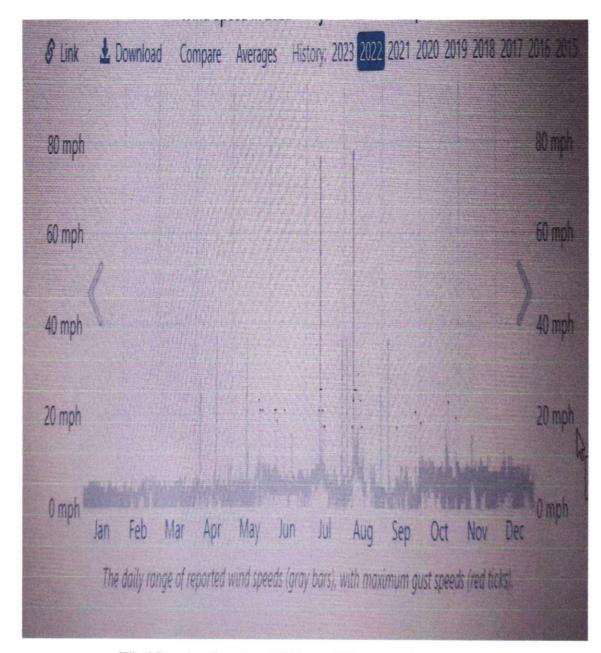
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## Weather Data - 2022

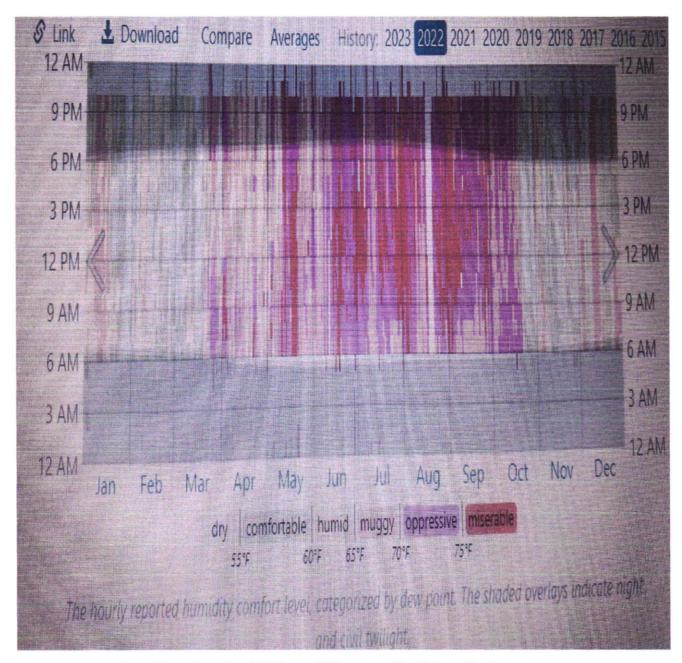


Temperature at Samskruti College of Pharmacy, Kondapur, Ghatkesar.

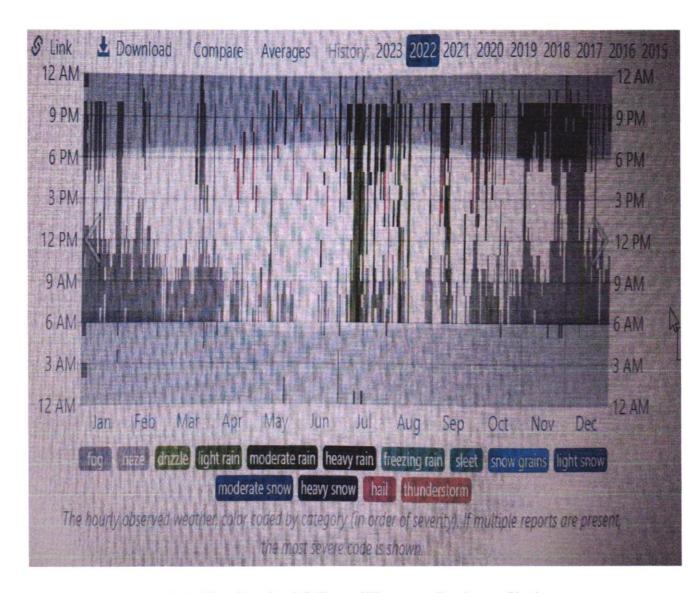
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Wind Speed at Samskruti College of Pharmacy, Kondapur, Ghatkesar.



Humidity at Samskruti College of Pharmacy, Kondapur, Ghatkesar.



Rainfall at Samskruti College of Pharmacy, Kondapur, Ghatkesar.

## AIR QUALITY OF SCOP

Principal

		3 8	12		SNO							
G. CALLESTAN. —— Checked by Shiva Srikrishna, Asst. Prof.	Narogen dioxide as NOx(µg m3)	Sulphur dioxide as SO2(µg/m3)	Particulate Matter (PM2.5)	Particulate Matter (PM10)	NAME OF THE PARAMETER		Sample Description/Code	Sample collection Date	Sample collected by	Date of Report		NVS
	0	0	20.4	61.7	COLLEGE MAIN ENTRANCE		AIR QUALITY ANALYSIS	09.19.2022	B.Pharm Final Year Students	09.24,2022	AIR QUALITY ANALYSIS DETAILS AT	SAMSKRUTI COLLEGE OF PHARMACY KONDAPUR(V), GHATKESAR.
	•	0	15.6	52.8	ADMIN	TEST RESULTS						IACY KONDA
	0		15.6	52	CANTEEN						SCOP CAMPUS	PUR(V), GHA
	0	0	ĸ	75	SPORTS						US	ATKESAR.
Authorized Signator Dr. Y. Shirisha, Pro	8	80	80	100	NAAQS LIMITS							
incipal	IS \$182 Part- 6	IS 5182 Part-2	CPCB Manual (NAAQMS 36 2012- 13) Gravimetric method (Cycloruc Flow technique)	IS \$182; Part- 23 (2012)	TEST METHOD							

# NOISE LEVEL IN THE SURROUNDING OF SCOP

**Principal** 

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

Date of Report	09.24.2022
Sample collected by	B.Pharm final year students
Sample collected date	09.19.2022
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

S. SRiblish \_\_ Checked by

Shiva Srikrishna, Asst. Prof.

Authorized Signatory Dr. Y. Shirisha, Prof.

**Principal** 

# WATER ANALYSIS REPORT OF SCOP

**Principal** 

**				
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)	Consumption Details for 2021-22 (Liters in Lakhs)
	2.0	2.5	2.3	2.0
	2.3	2.0	2.1	2.3
March		2.2	2.2	2.6
April	2.5	2.3	2.0	2.5
May		2.0	2.3	2.2
		2.2	2.4	2.1
	2.5	2.0	2.3	2.5
August		2.3	2.5	2.3
September		2.1	2.4	2.2
October	2.1	2.4	2.0	2.1
November	2.0	2.2	2.1	2.0
December	2.0	2.1	2.2	2.0

W	ater Collection Det:	iils at SCOP Campu	<u>s</u>		
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)	Collection Details for 2021-22 (Liters in Lakhs)	
January	2.7	2.6	2.7	2.7	
February	2.5	2.5	2.6	2.5	
March	2.6	2.6	2.5	2.6	
April	2.7	3	2.8	2.7	
May	2.5	2.5	2.7	2.5	
June	2.7	2.7	2.8	2.7	
July	2.9	2.5	2.9	2.9	
August	3	2.7	2.6	3	
peptember	2.8	2.6	2.7	2.8	
October	2.9	2.8	2.6	2.9	
November	2.6	2.8	2.8	2.6	
December	2.7	2.9	2.9	2.7	

Directed by
Shiva Srikrishna, Asst. prof.

Principal

Signatory Dr. Y. Shirisha, prof.

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

Date of Report	09.24.2022
Sample collected by	B.Pharm final year students
Sample collection Date	09.19.2022
Sample Description /Code	Bore Water

8.50	Parameter	Unit	Method	Result	IS 10500 limits		
					Acceptable	Permissible	
1	pH		APHA 23 <sup>RD</sup> EDITION, 4500 H+B	6.72	65.65	No Relaxation	
2	Turbidity	NTU	APHA 23 <sup>RD</sup> EDITION, 2130 B	2	2	2	
3	Conductivity	µMho/cm	- APHA 23RD EDITION, 2510 B	3054			
4	Total dissolved Solids	mg/L	APHA 23 <sup>RD</sup> EDITION, 2540 B	1985	500	2000	
5	Colour	CU	APHA 23 <sup>RD</sup> EDITION, 2120 B	< 5	5	15	
6	Odor			Agreeable	Agreeable	Agreeable	
7	P. Alkalinity as caco:	mg/L	APHA 23 <sup>RD</sup> EDITION,2320 B	<5	6	. ig. ceuore	
8	Alkalinity as caco;	mg/L	APHA 23 <sup>RD</sup> EDITION,2320 B	450	200	600	
9	Total Hardness as caco:	mg/L	APHA 23 <sup>RD</sup> EDITION, 2340 B	542	200	600	
10	Calcium as ca	mg/L	APHA 23 <sup>RD</sup> EDITION,3500 B	110	75	200	
11	Magnesium as Mg	mg/L	APHA 23 <sup>RD</sup> EDITION, 3500 B	14	55	100	
12	Sodium as Na	mg/L	APHA 23 <sup>RD</sup> EDITION,3500 B	321		100	
13	Potassium as K	mg/L	APHA 23RD EDITION, 3500 B	191			
14	Chloride as Cl	mg/L	APHA 23 <sup>RD</sup> EDITION, 4500 B	10.2	250	400	
15	Sulphates as So <sub>4</sub> ?	mg/L	APHA 23 <sup>RD</sup> EDITION, 4500 B	0.8	200	No Relaxation	
16	Nitrate Nitrogen as N	mg/L	APHA 23 <sup>RD</sup> EDITION, 4500 B	<0.3	45	2.5	
17	Flourides as F	mg/L	APHA 23 <sup>RD</sup> EDITION, 2500 B	<0.1	1	No Relaxation	
18	Iron as Fe	mg/L	APHA 23 <sup>RD</sup> EDITION, 3500 B	< 0.001	0.3	0.3	
19	Manganese as Mn	mg/L	APHA 23 <sup>RD</sup> EDITION, 5530 B	< 0.01	0.1	0.002	
20	Phenols Compounds	mg/L	APHA 23 <sup>RD</sup> EDITION, 2130 B	<0.01	0.001	No Relaxation	
21	Cromium as Cr	mg/L	APHA 23 <sup>RD</sup> EDITION, 2130 B	< 0.01	0.05	3	
22	Residual Chlorine as CL	mg/L	APHA 23 <sup>RD</sup> EDITION, 3111B	< 0.01	0.2	No Relaxation	
23	Total cyanide	mg/L	APHA 23 <sup>RD</sup> EDITION,3111 B	<0.01	0.005	1.5	
24	Copper as Cu	mg/L	APHA 23 <sup>RD</sup> EDITION,3111B	<0.01	0.005	No Relaxation	
25	Cadmiun as Cd	mg/L	APHA 23 <sup>RD</sup> EDITION,3111B	<0.01	0.003	1.5	
26	Zinc as Zn	mg/L	APHA 23 <sup>RD</sup> EDITION,3111B	<0.5	5	No Relaxation	
27	Lead as Pb	mg/L	APHA 23 <sup>RD</sup> EDITION,3111B	<0.01	0.01	400	

C. Chiklish Directed by Shiva Srikrishna, Asst. prof

Authorized Signatory Dr. Y. Shirisha, prof.

**Principal** 

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

Date of Report	09.24.2022
Sample collected by	B.Pharm Final Year Students
Sample collected Date	09.19.2022
Sample Description/Code	Waste Water

S.NO	Parameter	Method	Unit	Result
1	Ph	APHA 23 <sup>RD</sup> Edition 4500 H +		7.21
		В		
2	Total Dissolved Solids	APHA 23 <sup>RD</sup> Edition 2504 C	mg/l	707
3	Total Suspended solids	APHA 23 <sup>RD</sup> Edition 2504 D	mg/l	72
4	Chemical Oxygen Demand as COD	APHA 23 <sup>RD</sup> Edition 5220 B	mg/l	61
5	Biological Oxygen Demand as BOD	IS: 3025(Part-44): 2009	mg/l	21
5	Oil & Grease	APHA 23 <sup>RD</sup> Edition 5520 B	mg/l	<7

S. Srikhish Checked by

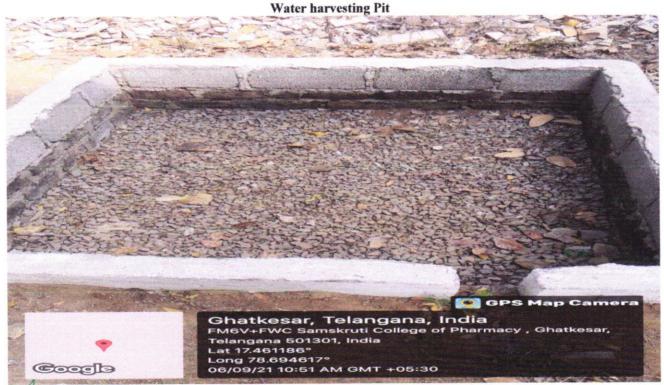
Shiva Sri Krishna, Asst. Prof.

Authorised Signatory Dr. Y. Shrisha, Prof.

**Principal** 

## Common Water tank





Water Conservation facilities available in the Institution

**Principal** 

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)	Consumption Details for 2021-22 (Liters in Lakhs)				
January	2.0	2.5	2.3	2.0				
February	2.3	2.0	2.1	2.3				
March	2.0	2.2	2.2	2.0				
April	2.5	2.3	2.0	2.5				
May	2.2	2.0	2.3	2.2				
June	2.1	2.2	2.4	2.1				
July	2.5	2.0	2.3	2.5				
August	2.3	2.3	2.5	2.3				
September	2.2	2.1	2.4	2.2				
October	2.1	2.4	2.0	2.1				
November	2.0	2.2	2.1	2.0				
December	2.0	2.1	2.2	2.0				

## SAMSKRUTI COLLEGE OF PHARMACY, KONDAPUR, GHATKESAR.

### Water Collection Details at SCOP Campus **Collection Details for Collection Details for** Collection **Collection Details for** 2018-19 2019-20 **Details** for 2021-22 Month (Liters in Lakhs) (Liters in Lakhs) 2020-21 (Liters in (Liters in Lakhs) Lakhs) 2.7 January 2.6 2.7 2.7 2.5 February 2.5 2.6 2.5 March 2.6 2.6 2.5 2.6 April 2.7 3 2.8 2.7 May 2.5 2.5 2.7 2.5 2.7 June 2.7 2.8 2.7 July 2.9 2.5 2.9 2.9 August 3 2.7 2.6 3 September 2.8 2.6 2.7 2.8 2.9 October 2.8 2.6 2.9 November 2.6 2.8 2.8 2.6 December 2.7 2.9 2.9 2.7

- traffa Principal

## WASTE DISPOSAL AT SCOP

**Principal** 

## 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 the detectronic means via whatsApp groups, emails etc. thus, reducing paper-based waste and reduce carbon dioxide emissions. Some announcements and programmes are conducted 

Principal various apps and by sharing link to the students. Power Point presentations are also 

Samskruti College of Pharmacy shared to student's whatsApp groups by the faculty members to reduce the wastage in paper 

Kondapur(V). Ghatkesar(Wi).

Medabal Dis printing as 300 dll 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

from mess and cafeteria is collected in separate bins. Horticulturalwastesuchasdriedleaves, twigs, and plantclippings are collected from all around the campus and used for bin composting. Dust bins 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 took 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

**Principal** waste gets mixed with routine wastewater.

Samskruti College of Pharmacy

Kondapur(V)EGhatkmanhgement:

Medalsol State Pill 501301
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.

Green Audit Report, SCOP-2022

Input devices like keyboards which are of no use are utilized by students for their typing 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.

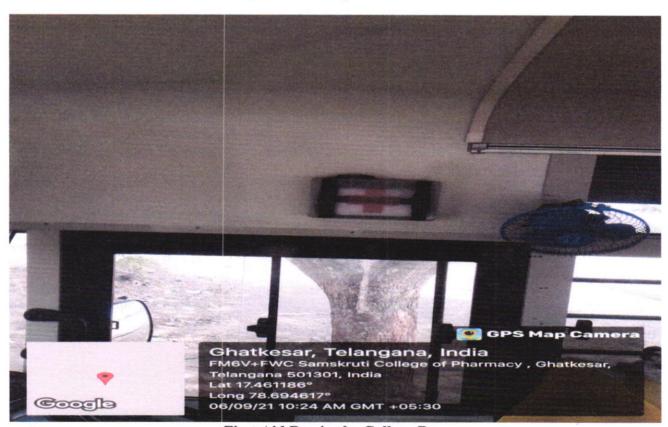
**Principal** 

# **TRANSPORTATION**

**Principal** 

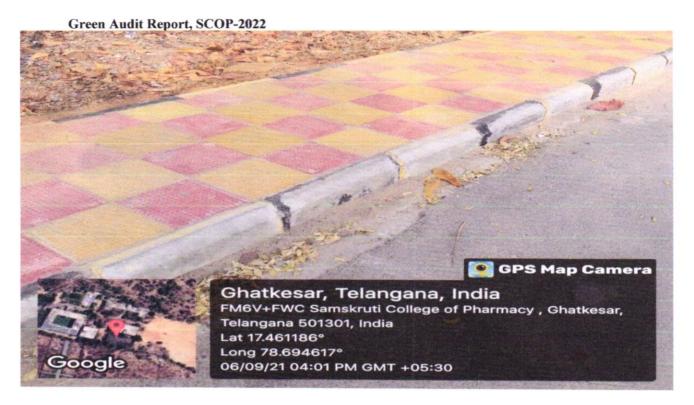


College bus Parking Place at SCOP

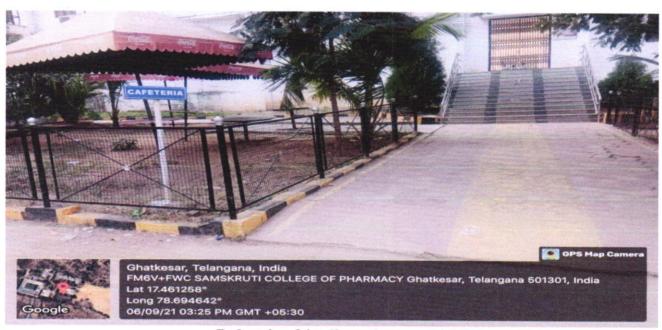


First Aid Box in the College Bus

Principal



Pedestrian friendly pathways at SCOP



Pedestrian friendly pathways at SCOP



Car Parking Place at SCOP



**Bicycle Parking at SCOP** 



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

**Electrical Vehicle Parking at SCOP** 

# ELECTRICAL ENERGY CONSUMPTION AT SCOP

**Principal** 

	ELEC	TRICAL CO	ONSUMPTI	ON OF SCO	OP (2017-20	022)	
S.NO	Month	2017	2018	2019	2020	2021	2022
1	January	8,440	5,809	8,406	9,499	3,866	7,063
2	February	9,680	14,677	10,863	11,551	6,806	5,815
3	March	12,280	12,819	13,122	12,960	9,040	9,779
4	April	14,140	11,478	16,546	7,917	5,004	17,117
5	May	10,850	11,699	15,897	5,812	7,425	17,573
6	June	9,150	14,263	11,850	5,648	5,826	13,158
7	July	6,201	12,879	16,366	7,108	5,141	16,843
8	August	10,468	15,899	15,805	7,062	9,975	15,080
9	September	9,214	18,005	16,368	6,054	9,984	14,529
10	October	9,160	12,253	11,170	7,651	12,531	9,826
11	November	8,797	13,306	12,395	9,277	10,342	11,569
12	December	9,285	11,950	12,326	8,398	10,317	11,879
Tot	al (Kwh)	117,665	155,037	161,114	98,937	96,257	150,23

**Principal** 

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#### Replacement of Tube lights with LED's

		Tube Ligi	hts	LEDs Replaced Philips Make			
S No	Power						
S. No	Rating	Qty	Total Power	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.

**Principal** 

#### Represented of Labraights with LEP's

		-11		

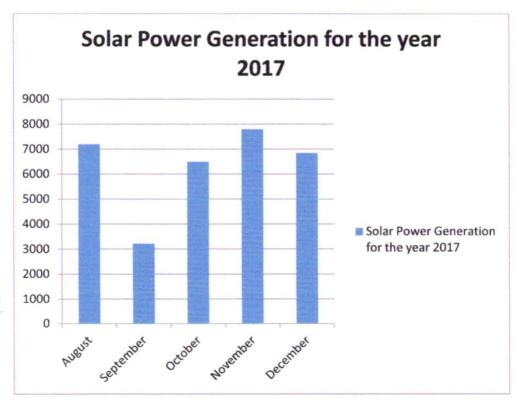
Total 9.08 KW of power consumption is reduced to 7.0 KW with the replacement of More-

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# SOLAR ENERGY GENERATION IN SCOP

**Principal** 

		Solar	Generation i	n units (KWl	1)		
S.NO	Month	2017	2018	2019	2020	2021	2022
1	January	Nil	6128	4248	4504	4207	3743
2	February	Nil	6472	5512	5768	5471	5007
3	March	Nil	6562	6636	6892	6599	6135
4	April	Nil	7035	8348	8006	7256	6525
5	May	Nil	7671	8018	8270	7425	6241
6	June	Nil	7837	6007	6259	5966	5024
7	July	Nil	6245	8004	7425	8035	6210
8	August	7200	8154	7118	7342	7121	5241
9	September	3220	7543	6352	6576	6355	5121
10	October	6500	6196	7255	7479	7262	5524
11	November	7800	6726	5214	5438	5221	4749
12	December	6843	6036	5573	5797	5580	4321
Tot	tal (Kwh)	31,563	82,605	78,285	79,756	76,498	63,841



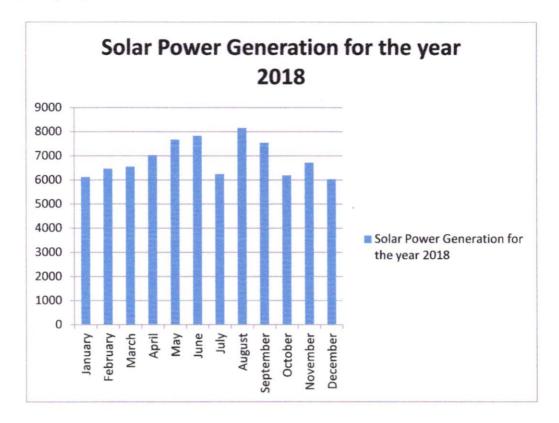
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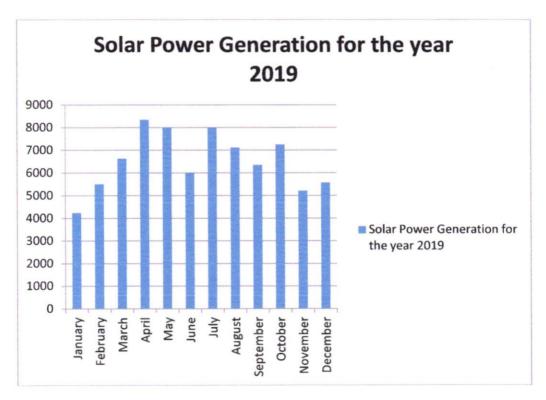
Principal
Samskruti College of Pharmacy
Kondapur(V). Ghatkesar(M),
Medaled Oast. PIN-501301

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# Solar Power Generation for the year 2017

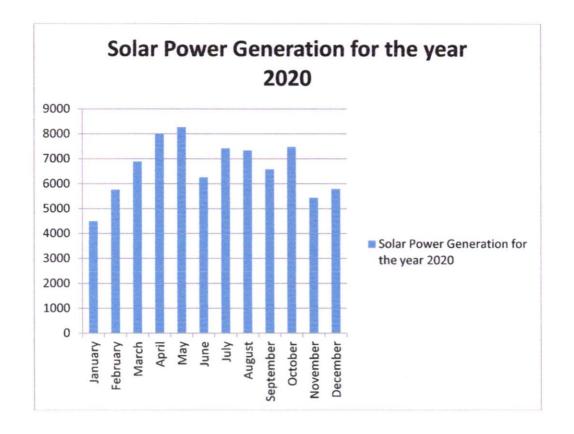
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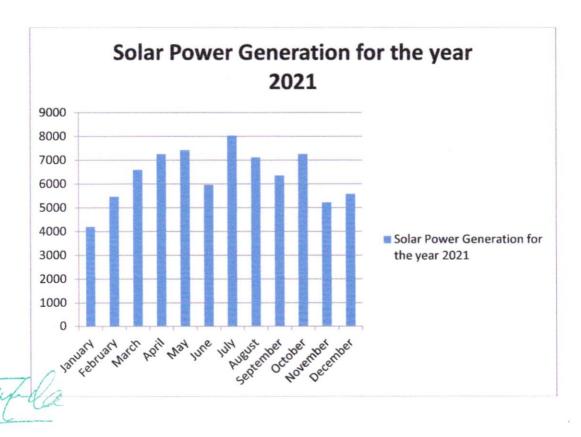




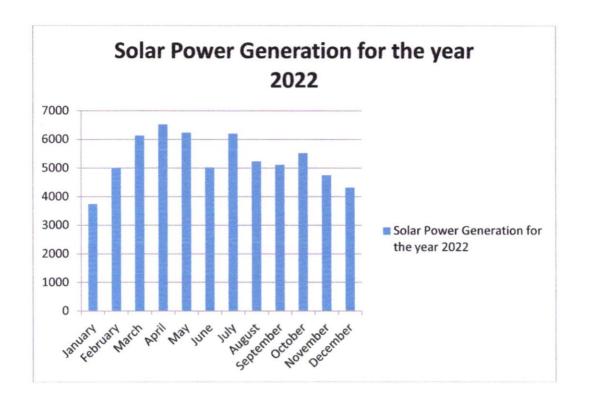
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Principal
Samskruti College of Pharmacy
Kondapur(V). Ghatkesar(M),
Medahol O.st. PIM-501301





**Principal** 



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

# ENERGY CONSUMPTION AND EXPORT

Principal

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
То	tal (KWh)	31563	10539	21024	96641	117665

Principal

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
To	tal (KWh)	82605	16172	66433	88604	155037



Principal

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
Tota	al (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 inhabitance. 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.

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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
Tot	al (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.

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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
Tot	al (KWh)	76498	28022	48476	47781	96257

#### Solar Plant Exported Units & Imported Units from TSSPDCL for The Year 2022

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	3743	1227	2516	4547	7063
2	February	5007	3239	1768	4047	5815
3	March	6135	584	5551	4228	9779
4	April	6525	860	5665	11452	17117
5	May	6241	748	5493	12080	17573
6	June	5024	556	4468	8690	13158
7	July	6210	163	6047	10796	16843
8	August	5241	305	4936	10144	15080
9	September	5121	734	4387	10142	14529
10	October	5524	1360	4164	5662	9826
1-11	November	4749	1356	3393	8176	11569
24/2	December	4321	428	3893	7986	11879
Tota	al (KWh)	63841	11560	52281	97950	150231

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# 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.)
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/-
2021 - 2022	2,46,835/-			2,46,835/-

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

**Principal** 

# Certificate of Registration

GMCSPL hereby certify that the organization

## SAMSKRUTI COLLEGE OF PHARMACY

Kondapur, Ghatkesar, Medchal Malkajgiri District, Telangana-501301

Has established and applies a Energy Management System in accordance with

ISO 50001:2018

For the scope of activities:

Provision of quality pharmacy education focussing on community and patient health care and indulging in research and development for future growth of pharmacy profession.

181201R-EM

Certificate Number

31 December 2021 Date of Last Issue

31 December 2018

Date of Initial Registration

30 December 2022 Date of Expiry







Certificate is Valid for 3 Years (31.12.2021 to 30.12.2024) From the Date of Last Issue. Upon Successful Completion of Surveillance Audit New Certificate With an Extended Validity will be issued.

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www.mssglobal in, E. mail-info@mssglobal in
Accredited by: Quality Accreditation Council, Accreditation No.16102, www.qacsin.org
This certificate is the property of GMCSPL, and shall be returned upon request by GMCSPL
The Registration does not assure the quality of yields under the firm's production.

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#### SAMSKRUTI COLLEGE OF PHARMACY

Kondapur, Ghatkesar, Medchal Malkajgiri District, Telangana-501301

Has established and applies an Environmental Management System in accordance with

ISO 14001:2015

For the scope of activities:

Provision of quality pharmacy education focussing on community and patient health care and indulging in research and development for future growth of pharmacy profession.

181202R-E

Certificate Number

31 December 2021 Date of Last Issue

31 December 2018 Date of Initial Registration 30 December 2022 Date of Expiry







Certificate is Valid for 3 Years (31.12.2021 to 30.12.2024) From the Date of Last Issue. Upon Successful Completion of Surveillance Audit New Certificate With an Extended Validity will be issued.

Global Management Certification Services Pvt.Ltd.

Accreditation Council, Accreditation No.i16102, www.qacin.org perty of GMCSPL, and shall be returned upon request by GMCSPL as not assure the quality of yields under the firm's production.

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Kondapur (V), Ghatkesar (M); Medchal Dist. Pili-501301

# Certificate of Registration

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# SAMSKRUTI COLLEGE OF PHARMACY

Kondapur, Ghatkesar, Medchal Malkajgiri District, Telangana- 501301

Has established and applies a Quality Management System in accordance with

ISO 9001:2015

For the scope of activities:

Provision of quality pharmacy education focussing on community and patient health care and indulging in research and development for future growth of pharmacy profession.

Q-211211

Certificate Number

31 December 2018

Date of Initial Registration

31 December 2021

Date of Last Issue

30 December 2022

Date of Expiry









Certificate is Valid for 3 Years (31.12.2021 to 30.12.2024) From the Date of Last Issue. Upon Successful Completion of Surveillance Audit New Certificate With an Extended Validity will be issued.

Signed on behalf of GMCSPL

Global Management Certification Services Pvt.Ltd.

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# GREEN AUDIT REPORT 2020-2021



Samskruti college of pharmacy:: Chatkesar Kondapur, Ghatkesar, Telangana Accredited by NAAC

FOR

# Green Audit Assessment Team



# K.Siva Naga Prasad, Lead Auditor EMS/EnMS



# K.V.Murthy,Lead Auditor EMS/EnMS



Ch.RamaRao,Lead Auditor EMS/EnMS

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# INTRODUCTION

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#### 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.

**Principal** 

# **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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## 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, about15 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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## 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**

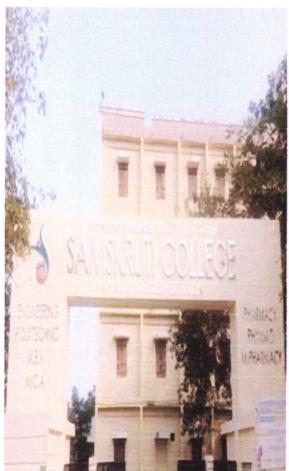
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## **GREEN AUDITING**

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 CO<sub>2</sub>emission, 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.

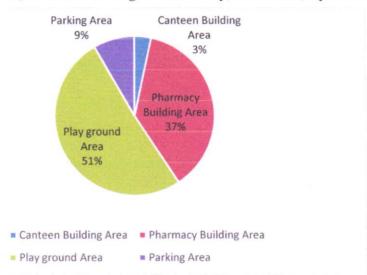
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## LAND USE DATA OF SCOP, Ghatkesar

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**

			Measurements of room (in Sq.mts.)			
Building/Blocks Name	Level/Floor No.	Room No.	Length	Breadth	Height	Area (L*b)
SAMSKRUTI COLLEGE	1	205	7.5	9.15	3.66	68.625
OF PHARMACY	1	203	7.5	3.13	3.00	08.023
SAMSKRUTI COLLEGE					3.66	68.625
OF PHARMACY	1	206	7.5	9.15	3.00	00.023
SAMSKRUTI COLLEGE					3.66	32.757
OF PHARMACY	1	208	3.58	9.15	3.00	32.737
SAMSKRUTI COLLEGE					3.66	68.625
OF PHARMACY	2	306	7.5	9.15	3.00	00.025
SAMSKRUTI COLLEGE					3.66	68.625
OF PHARMACY	2	307	7.5	9.15	3.00	00.025
SAMSKRUTI COLLEGE					3.66	32.757
OF PHARMACY	2	308	3.58	9.15	3.00	32.737
SAMSKRUTI COLLEGE					3.66	32.757
OF PHARMACY	2	309	3.58	9.15	3.00	32.737
SAMSKRUTI COLLEGE						32.757
OF PHARMACY	3	410	3.58	9.15	3.66	32.737
SAMSKRUTI COLLEGE						32.757
OF PHARMACY	3	403	3.58	9.15	3.66	32.737
SAMSKRUTI COLLEGE						32.757
OF PHARMACY	3	411	3.58	9.15	3.66	32.737
SAMSKRUTI COLLEGE						32.757
OF PHARMACY	3	404	3.58	9.15	3.66	32.737
SAMSKRUTI COLLEGE						32.757
OF PHARMACY	3	407	3.58	9.15	3.66	32.737
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	Room	Length	Breadth	Height	Area (L*b)
DATE OF THE PARTY	No.	No.				
SAMSKRUTI COLLEGE	0	102	7.21	9.15	3.66	66.02
OF PHARMACY						
SAMSKRUTI COLLEGE		400	7.00	0.45	3.66	67.795
OF PHARMACY	0	106	7.39	9.15		
SAMSKRUTI COLLEGE		407	7.00	0.45	3.66	67.67
OF PHARMACY	0	107	7.39	9.15		
SAMSKRUTI COLLEGE	0	100	11.20	0.45	3.66	102.46
OF PHARMACY	0	108	11.20	9.15		
SAMSKRUTI COLLEGE		400			3.66	67.67
OF PHARMACY	0	109	7.39	9.15		
SAMSKRUTI COLLEGE					3.66	68.5
OF PHARMACY	1	201	7.5	9.15		
SAMSKRUTI COLLEGE						102.46
OF PHARMACY	1	202	11.20	9.15	3.66	102.40
SAMSKRUTI COLLEGE						102.46
OF PHARMACY	1	203	11.20	9.15	3.66	102.40
SAMSKRUTI COLLEGE						68.5
OF PHARMACY	1	204	7.5	9.15	3.66	00.5
SAMSKRUTI COLLEGE						16.37
OF PHARMACY	1	210	1.79	9.15	3.66	10.57
SAMSKRUTI COLLEGE						68.5
OF PHARMACY	2	301	7.5	9.15	3.66	06.5
SAMSKRUTI COLLEGE						102.56
OF PHARMACY	2	305	11.20	9.15	3.66	102.36
SAMSKRUTI COLLEGE						68.5
OF PHARMACY	2	310	7.5	9.15	3.66	06.5
SAMSKRUTI COLLEGE						102.56
OF PHARMACY	3	401	11.20	9.15	3.66	102.56
SAMSKRUTI COLLEGE						102.56
OF PHARMACY	3	402	11.20	9.15	3.66	102.56
SAMSKRUTI COLLEGE						172.22
OF PHARMACY	3	406	18.83	9.15	3.66	172.32
SAMSKRUTI COLLEGE						102.56
OF PHARMACY	3	408	11.20	9.15	3.66	102.56
SAMSKRUTI COLLEGE						CO. F
OF PHARMACY	3	409	7.5	9.15	3.66	68.5
SAMSKRUTI COLLEGE						CO. 5
OF PHARMACY	3	412	7.5	9.15	3.66	68.5
SAMSKRUTI COLLEGE						60.5
OF PHARMACY	3	413	7.5	9.15	3.66	68.5
						60 5
CANTEEN BUILDING	1	105	7.5	9.15	3.66	68.5



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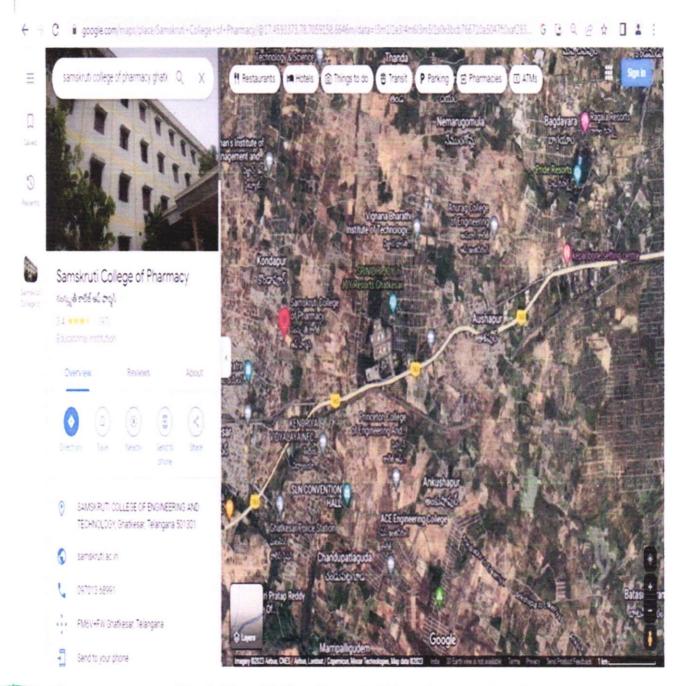
# GEOGRAPHICAL LOCATION WITH CAMPUS MAP IN SCALE

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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.



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Google Map of College Campus and Location map screen shot

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## TREE DIVERSITY OF SCOP

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Kondapur(V). Ghatkesar(M),
Medchal Dist. PIN-501301

### 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 Kondapur(V)practice state Mal environmental audit (Green Audit) is conducted to evaluate the Medabal Dist. Pin. 501201 actual scenario on the campus. A survey on trees and other greeneries within the campus was done by the students.

S.No.	Common Name	Scientific Name	Numbe	
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	Fiery 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	
ollege	Pala chettu of Pharmacy	Alstonias cholaris	04	
VA). GI	natk@sar(M),	Manilkara zapota	04	
Dist F	NES-0:13-01ck	Moringa oleifera	02	

Samskruti Kondapu Medahal Bist. PNESO11391ck Moringa oleifera 02

reen Audit Report, SCOP-2021		
Henna Tree	Lawsonia inermis	03
Oyster plant	Tradescantia	03
Blue flowered rattle pod	Crotalaria vessucosa L	03
Orchid plant	Cymbidium orchid	01
Lane puwak	Areca concinna	02
Peacock flower	Caesalpinia pulcberrima	08
Lantana camera flowers	Lantana camera	05
Parthenium ( santa maria fever	Parthenium hysterophorus	20
Orchidtree (kanchon)		04
Sickle pod	Senna obtusifolia	07
Achar / chironji tree seeds	Buchananialanzan	01
Vampadan climbing shrub	Ventilago madeaspatana	03
Lebbeck tree	Langil	05
Indian cork tree	Millingtonia hortensis linn.F	07
Veld grape	Cissus quadragularis	02
Cheese wood	Pittosporum tobira	06
Paper flower	Bougainvillea glabra	04
nilgiri	Eucalyptus globulus	05
Crown of throns	Euphorbia millivar	15
Papaya	Carica papaya	02
Fire cracker flower	Crossan drain fundibuiformis	02
Chamanthi	crysanthemum	02
Ixora coccinia	Rubiaceae	02
Jasminum cuspidatum	Oleaceae	03
Lawsoniainermis	Lythraceae	03
Mangiferaindica	Anacardiaceae	03
Screwpine	Pandanus veitchi	04
Lancepod	Loncho carpus costaricensis	03
Earpod tree	Enterolobium cyclocarpum	20
Nontry cypress	Cypressus and macrocarpa	06
ipaleping fig	Ficus bengamina	07
e of Pharmacy	Tridax procumbens	06
Filhdiangonai	Alstroniascholaris	01
Trumpet tree	Tabebuia roser	03
Brush berry	Syzygiamaustrale	02
	Henna Tree Oyster plant Blue flowered rattle pod Orchid plant Lane puwak Peacock flower Lantana camera flowers Parthenium (santa maria fever few) Orchidtree (kanchon) Sickle pod Achar / chironji tree seeds Vampadan climbing shrub Lebbeck tree Indian cork tree Veld grape Cheese wood Paper flower nilgiri Crown of throns Papaya Fire cracker flower Chamanthi Ixora coccinia Jasminum cuspidatum Lawsoniainermis Mangiferaindica Screwpine Lancepod Earpod tree Nontry cypress Indian Spillai Trumpet tree	Henna Tree Lawsonia inermis Oyster plant Tradescantia Blue flowered rattle pod Crotalaria vessucosa L Orchid plant Cymbidium orchid Lane puwak Areca concinna Peacock flower Caesalpinia pulcberrima Lantana camera flowers Lantana camera Parthenium (santa maria fever few) Orchidtree (kanchon) Bauhinia variegata Sickle pod Senna obtusifolia Achar / chironji tree seeds Buchananialanzan Vampadan climbing shrub Ventilago madeaspatana Lebbeck tree Langil Indian cork tree Millingtonia hortensis linn.F Veld grape Cissus quadragularis Cheese wood Pittosporum tobira Paper flower Bougainvillea glabra nilgiri Eucalyptus globulus Crown of throns Euphorbia millivar Papaya Carica papaya Fire cracker flower Crossan drain fundibuiformis Chamanthi crysanthemum Ixora coccinia Rubiaceae Jasminum cuspidatum Oleaceae Lawsoniainermis Lythraceae Mangiferaindica Anacardiaceae Screwpine Pandanus veitchi Lancepod Loncho carpus costaricensis Earpod tree Enterolobium cyclocarpum Nontry cypress Cypressus and macrocarpa Ficus bengamina Tridax procumbens

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Samskruti Kondapi Medah

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**





**Principal** 

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

## **Green Trees And Plants Photo**





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

## Main Entrance - Samskruti Group of Institutions



College Building - Samskruti College of Pharmacy



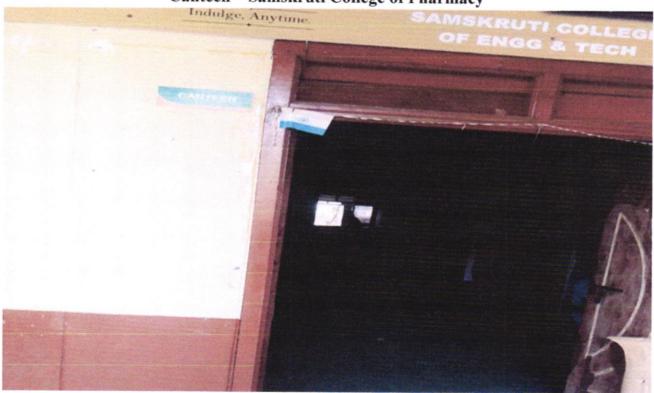


**Principal** 

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Canteen - Samskruti College of Pharmacy



F074

**Principal** 

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

## Green Audit Report, SCOP-2021 Basket ball court – Samskruti College Of Pharmacy



Play Ground - Samskruti College Of Pharmacy





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Kondapur(V). Ghatkesar(M),
Medabal Dist. PIN-501301

Volleyball court - Samskruti College Of Pharmacy



For

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# FAUNAL DIVERSITY IN SCOP

For H

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Kondapur(V). Ghatkesar(M),
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## FAUNAL DIVERSITY IN SCOP

SCOP is located in District of Medchal, Telangana India. The highest temperature is recorded 42° 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 variedly 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	Arctia Caja
14.	Little Owl	Athene Brama
15.	Oleander Moth	Syntomeida Epilais
16.	Slender Skimmer	Orthetrum Sabina
	Lizard	Indian Garden Lizard
18	peacocks	Pavo cristatus
19	Grass Hopper	Orthoptera
20	Squirrel	Sciuridae
21	Scarab Beetle	Coleoptera
	Lizard	Lacertilia
23	Pigeon	Columbidae
24	Parrots	Indian Rose Ringed Parakeet



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Medchal Dist. PiN-001301





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## Trees and Plants- Samskruti College of Pharmacy





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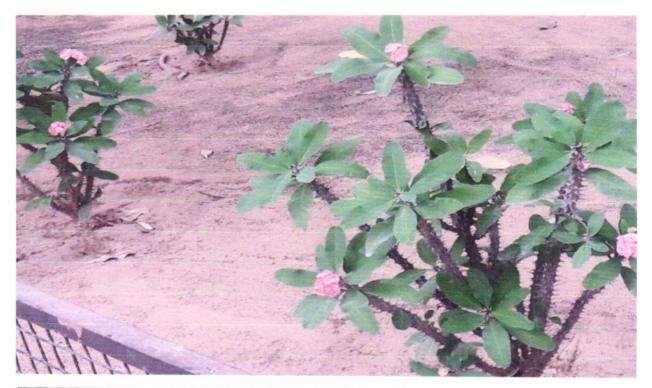
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# FLORAL DIVERSITY OF SCOP

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Kondapur(V). Ghatkesar(M),
Medchal Dist. PIN-501301

## FLORAL DIVERSITY IN SCOP









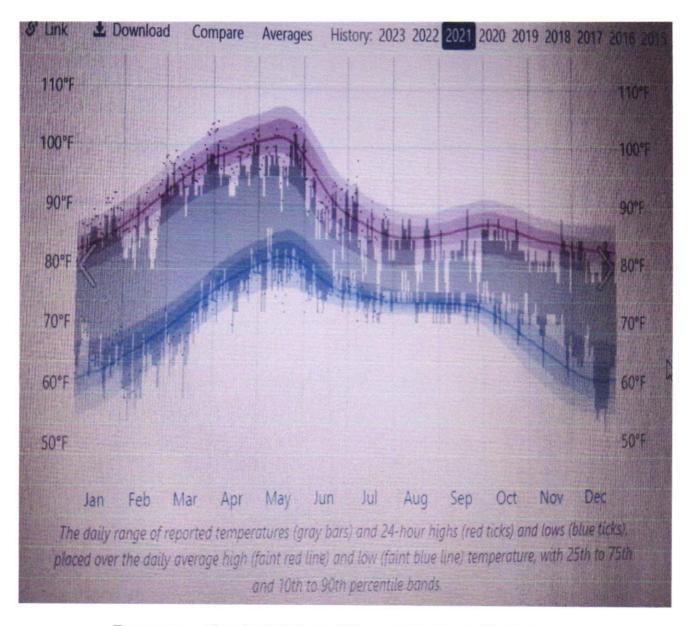
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## WEATHER DATA OF SCOP

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## Weather Data - 2021



Temperature at Samskruti College of Pharmacy, Kondapur, Ghatkesar.

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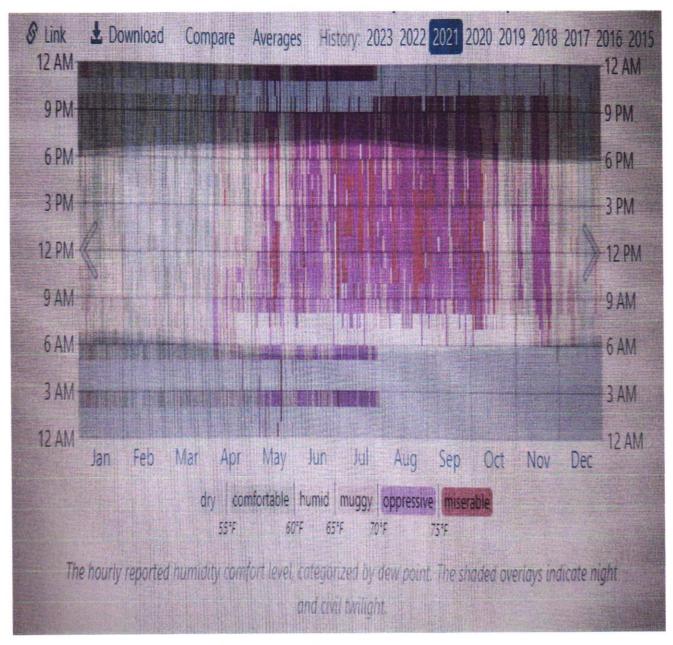
Link & Download	Compare Averag	es History: 2023 202	2 2021 2020 2019 201	8 2017 2010 20
10 mph				140 mp
O mph				120 mp
00 mph				100 mp
80 mph /				§ 80 mpl
60 mph				60 mpl
40 mph				40 mpl
20 mph				20 mpl
0 mph Jan Feb	Mar Apr May	Jun Jul Aug	Sep Oct Nov	Dec 0 mph
The doily r			aximum gust speeds (red	

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

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Principal
Samskruti College of Pharmacy

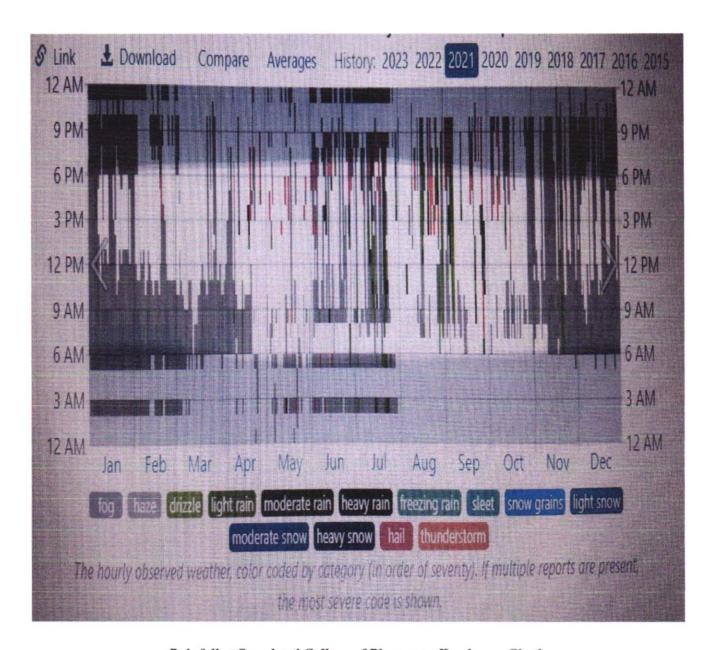
Kondapur(V). Ghatkesar(M), Medchal Dist. PIN-501301



Humidity at Samskruti College of Pharmacy, Kondapur, Ghatkesar.

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Medchel Dist. PIN-501301



Rainfall at Samskruti College of Pharmacy, Kondapur, Ghatkesar.

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# AIR QUALITY OF SCOP

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# SAMSKRUTI COLLEGE OF PHARMACY KONDAPUR(V), GHATKESAR. AIR QUALITY ANALYSIS DETAILS AT SCOP CAMPUS

	Sample collection Date	B.Pharm Final Year Students 09.20.2021					
	Sample Description/Code	AIR QUALITY ANALYSIS					
		T.	TEST RESULTS		And the first the second of th	1	
	*		4				
						NAAQS	HEST METH
S.NO	NAME OF THE PARAMETER	COLLEGE MAIN ENTRANCE	ADMIN	CANTEEN AREA	SPORTS GROUND	LIMITS	TEST STEEL
-	Description Matter (PM10)	61.6	52.7	51	75	100	IS 5182: Part- 23 (2012)
1	Particulate matter (1 many)						CPCB Manual
ы	Particulate Matter (PM2.5)	20.1	15.3	15.3	125	60	(NAAQAIS 30 -01-0 13) Gravimetric method (Cyclonic Flow technique)
	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0	0	0	0	80	1S 5182: Part- 2 (2012)
	The state of NOv(ma/m3)	0	0	0	0	80	(2012)

Authorized Signatory Dr. Y. Shirisha, Prof.

Checked by Shiva Srikrishna, Asst. Prof.

# NOISE LEVEL IN THE SURROUNDING OF SCOP

For H

# 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)	(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

S. Shibhish
Checked by

Shiva Srikrishna, Asst. Prof.

Authorized Signatory Dr. Y. Shirisha, Prof.

**Principal** 

# WATER ANALYSIS REPORT OF SCOP

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	bege of Pharmacy, Kond ater Consumption Deta		
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)
		1.5	2.3
			2.1
March		2.2	2.2
April		2.1	2.0
May		2.0	2.3
	2.1	2.3	2.4
	23	2.0	2.3
Angust		2.1	2.5
September		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

<u> </u>	ater Collection Deta	iils at SCOP Campu	S
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
armacy July	2.9	2.5	2.9
ar(M), August	3	2.7	2.6
1201 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 Ph

Kondapur(V). Ghatkes Medalway on a payor

Directed by

Shiva Srikrishna, Asst. prof.

Authorized Signatory Dr. Y. Shirisha, prof.

### 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 lim	nits
					Acceptable	Permissible
1	pH		APHA 23 <sup>RD</sup> EDITION, 4500 H+B	6.71	65.65	No Relaxation
2	Turbidity	NTU	APHA 23 <sup>RD</sup> EDITION, 2130 B	2	2	2
3	Conductivity	µMho/cm	APHA 23 <sup>RD</sup> EDITION, 2510 B	3051		
4	Total dissolved Solids	mg/L	APHA 23 <sup>RD</sup> EDITION, 2540 B	1984	500	2000
5	Colour	CU	APHA 23 <sup>RD</sup> EDITION, 2120 B	<5	5	15
6	Odor			Agreeable	Agreeable	Agreeable
7	P.Alkalinity as caco;	mg/L	APHA 23 <sup>RD</sup> EDITION,2320 B	<5		
8	Alkalinity as caco3	mg/L	APHA 23 <sup>RD</sup> EDITION,2320 B	450	200	600
9	Total Hardness as caco3	mg/L	APHA 23 <sup>RD</sup> EDITION, 2340 B	541	200	600
10	Calcium as ca	mg/L	APHA 23 <sup>RD</sup> EDITION,3500 B	110	75	200
11	Magnesium as Mg	mg/L	APHA 23 <sup>RD</sup> EDITION, 3500 B	14	55	100
12	Sodium as Na	mg/L	APHA 23RD EDITION,3500 B	321		
13	Potassium as K	mg/L	APHA 23 <sup>RD</sup> EDITION, 3500 B	191		
14	Chloride as Cl	mg/L	APHA 23 <sup>RD</sup> EDITION, 4500 B	10.2	250	400
15	Sulphates as So <sub>4</sub> <sup>2</sup>	mg/L	APHA 23 <sup>RD</sup> EDITION, 4500 B	0.8	200	No Relaxation
16	Nitrate Nitrogen as N	mg/L	APHA 23 <sup>RD</sup> EDITION, 4500 B	< 0.3	45	2.5
17	Flourides as F	mg/L	APHA 23 <sup>RD</sup> EDITION, 2500 B	<0.1	1	No Relaxation
18	Iron as Fe	mg/L	APHA 23 <sup>RD</sup> EDITION, 3500 B	< 0.001	0.3	0.3
19	Manganese as Mn	mg/L	APHA 23 <sup>RD</sup> EDITION, 5530 B	< 0.01	0.1	0.002
20	Phenols Compounds	mg/L	APHA 23 <sup>RD</sup> EDITION, 2130 B	< 0.01	0.001	No Relaxation
21	Cromium as Cr	mg/L	APHA 23 <sup>RD</sup> EDITION, 2130 B	< 0.01	0.05	3
22	Residual Chlorine as CL	mg/L	APHA 23 <sup>RD</sup> EDITION, 3111B	<0.01	0.2	No Relaxation
23	Total cyanide	mg/L	APHA 23 <sup>RD</sup> EDITION,3111 B	< 0.01	0.005	1.5
24	Copper as Cu	mg/L	APHA 23 <sup>RD</sup> EDITION,3111B	< 0.01	0.005	No Relaxation
25	Cadmiun as Cd	mg/L	APHA 23 <sup>RD</sup> EDITION,3111B	< 0.01	0.003	1.5
26	Zinc as Zn	mg/L	APHA 23 <sup>RD</sup> EDITION,3111B	< 0.5	5	No Relaxation
27	Lead as Pb	mg/L	APHA 23RD EDITION,3111B	< 0.01	0.01	400

S. Shile litt \_\_\_\_\_ Directed by

Shiva Srikrishna, Asst. prof

Authorized Signatory Dr. Y. Shirisha, prof.

**Principal** 

# 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 <sup>RD</sup> Edition 4500 H +	Ont	7.20
2	Total Dissolved Solids	APHA 23 <sup>RD</sup> Edition 2504 C	mg/l	706
3	Total Suspended solids	APHA 23 <sup>RD</sup> Edition 2504 D	mg/l	710
4	Chemical Oxygen Demand as COD	APHA 23 <sup>RD</sup> 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 <sup>RD</sup> Edition 5520 B	mg/l	-   -7

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Checked by

Shiva Sri Krishna, Asst. Prof.

Authorised Signatory Dr. Y. Shrisha, Prof.

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Principal

Common Water tank





Water Conservation facilities available in the Institution

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

# SAMSKRUTI COLLEGE OF PHARMACY, KONDAPUR, GHATKESAR.

### **Water Consumption Details**

	Consumption Details for 2018-19	Consumption Details for 2019-20	Consumption Details for 2020-21
Month	(Liters in Lakhs)	(Liters in Lakhs)	(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, 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			



# WASTE DISPOSAL AT SCOP



### 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 **Principal** student's whatsApp groups by the faculty members to reduce the wastage in paper Samskruti College of Pharmacy expenses. Use of paper printed on one side is encouraged in print drafts Kondapur(V) Medicine before final adocument, meeting minutes, memos and notes in office practices as environmentally preferred alternative to waste management. Biodegradable kitchen waste mess cafeteria collected in from and is separate bins. Horticulturalwastesuchasdriedleaves, twigs, and plant clippings are collected from all around the campus and used for bin composting. Dustbins have been installed throughout campus for Green Audit Report, SCOP-2021 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 took 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 

Principal which cannot be refurbished for re-use is dismantled and labelled as e-waste.

Samskruti Collegated has rike keyboards which are of no use are utilized by students for their typing 

Kondapur(V). Chatkes are keyboards which are of no use are utilized by students for their typing 

Kondapur(V). Chatkes are keyboards which are of no use are utilized by students for their typing 

Medapole of the suppliers 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.

Green Audit Report, SCOP-2021

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.

F07

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Medata J Olot. PIN-501301

# **TRANSPORTATION**

go to



College bus Parking Place at SCOP



First Aid Box in the College Bus





Two wheeler parking and Pedestrian friendly pathways at SCOP

# Principal Samskruti College of Pharmacy Kondanur(V) Charles

Kondapur(V). Ghatkesar(M), Medahal Dist. PIN-501301 Green Audit Report, SCOP-2021



Pedestrian friendly pathways at SCOP



Pedestrian friendly pathways at SCOP

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Medabal Dist. PIN-501301

Green Audit Report, SCOP-2021



**Bicycle Parking Place at SCOP** 



**Electrical Vehicle Parking Place at SCOP** 



Car Parking Place at SCOP

For

# ELECTRICAL ENERGY CONSUMPTION AT SCOP

和并

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
	al (Kwh)	117,665	155,037	161,114	98,937	96,257

FOR

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Medchal Dist. PIN-501301

### Replacement of Tube lights with LED's

C No		Tube Ligi	hts	LEDs Replaced Philips Make		
	Darrian					
S. No	Power Rating	Qty	Total Power	Power Rating Qty		Total Power
1	40 W	123 No	4.92 KW	20 W	104 No	2.08 KW

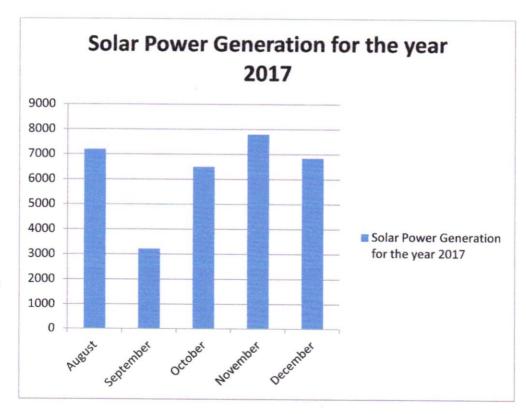
Total 9.08 KW of power consumption is reduced to 7.0 KW with the replacement of Non-LED Lamps and Tube Lights with LEDs.

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# SOLAR ENERGY GENERATION IN SCOP

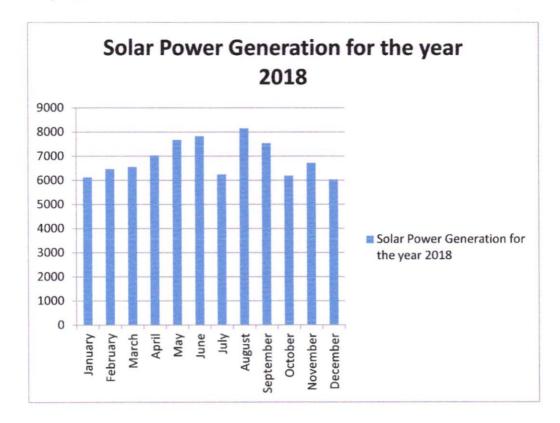
F074

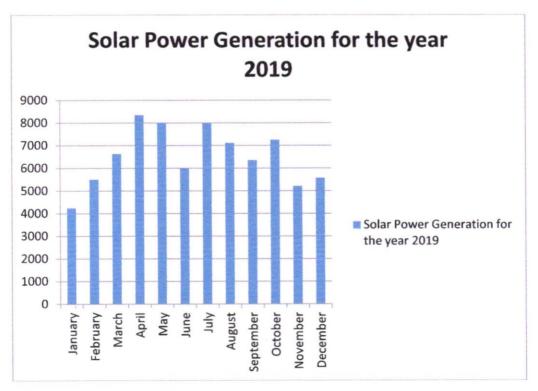
	Solar Generation in units (KWh)								
S.NO	Month	2017	2018	2019	2020	2021			
1	January	Nil	6128	4248	4504	4207			
2	February	Nil	6472	5512	5768	5471			
3	March	Nil	6562	6636	6892	6599			
4	April	Nil	7035	8348	8006	7256			
5	May	Nil	7671	8018	8270	7425			
6	June	Nil	7837	6007	6259	5966			
7	July	Nil	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			
Tot	al (Kwh)	31,563	82,605	78,285	79,756	76,498			





**Principal** 

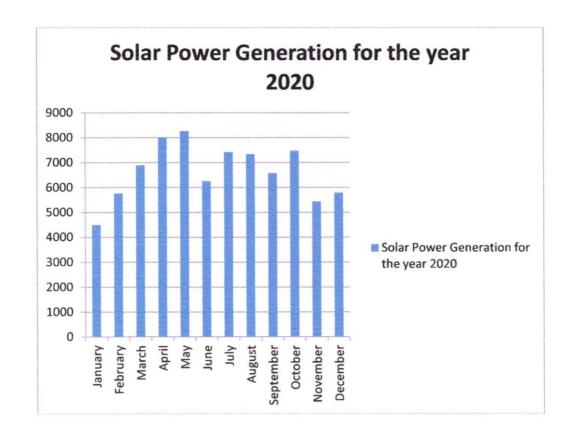


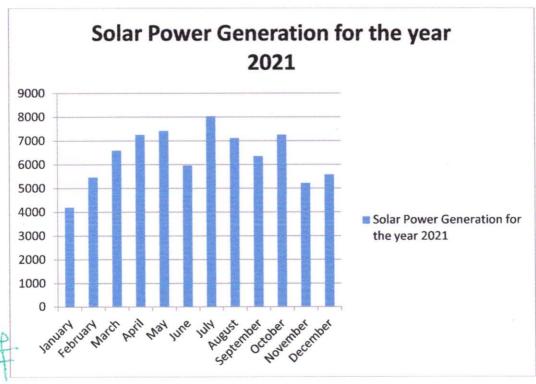




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# ENERGY CONSUMPTION AND EXPORT



## 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
To	otal (KWh)	31563	10539	21024	96641	117665

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## 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
То	tal (KWh)	82605	16172	66433	88604	155037





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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
Tot	al (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 inhabitance. 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

Pristoppins.

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
Tot	al (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**

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# 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
Tot	al (KWh)	76498	28022	48476	47781	96257





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# GREEN INITIATIVES DURING THE LAST FIVE YEARS

FOR

### 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-----

# Certificate of Registration

GMCSPL hereby certify that the organization

## SAMSKRUTI COLLEGE OF PHARMACY

Kondapur, Ghatkesar, Medchal Malkajgiri District, Telangana-501301

Has established and applies a Energy Management System in accordance with

ISO 50001:2011

For the scope of activities:

Provision of quality pharmacy education focussing on community and patient health care and indulging in research and development for future growth of pharmacy profession.

181201-EM

Certificate Number

31 December 2018 Date of Initial Registration 31 December 2020

Date of Last Issue

30 December 2021 Date of Expiry







Certificate is Valid for 1 Year (31.12.2020 to 30.12.2021) From the Date of Last Issue. Upon Successful Completion of Re Certification Audit New Certificate With an Extended Validity will be issued.

Global Management Certification Services Pvt.Ltd.

#402, Plot No.410, Matrusri Nagar, Miyapur, Serilingampally, Hyderobad – 500 049, India.

www.mcsglobal.in, E.mail:info@mcsglobal.in
Accredited by: Quality Accreditation Council, Accreditation No.116102, www.qacin.org
This certificate is the property of GMCSPL, and shall be returned upon request by GMCSPL
The Registration does not assure the quality of yields under the firm's production.

F-50 ( Version 4.00, 28.08.2017)

### Certificate of Registration

GMCSPL hereby certify that the organization

#### SAMSKRUTI COLLEGE OF PHARMACY

Kondapur, Ghatkesar, Medchal Malkajgiri District, Telangana- 501301

Has established and applies an Environmental Management System in accordance with

ISO 14001:2015

For the scope of activities:

Provision of quality pharmacy education focussing on community and patient health care and indulging in research and development for future growth of pharmacy profession.

181202-E

Certificate Number

31 December 2018

Date of Initial Registration

31 December 2020

Date of Last Issue

30 December 2021 Date of Expiry







Certificate is Valid for 1 Year (31.12.2020 to 30.12.2021) From the Date of Last Issue. Upon Successful Completion of Re Certification Audit New Certificate With an Extended Validity will be issued.

Signed on behalf of GMCSPL

Principal

Samskruti College of Pharmacy Kondapur(V). Ghatkesar(M), Mederal Diet Physosope Global Management Certification Services Pvt.Ltd.

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### Certificate of Registration

GMCSPL hereby certify that the organization

#### SAMSKRUTI COLLEGE OF PHARMACY

Kondapur, Ghatkesar, Medchal Malkajgiri District, Telangana-501301

Has established and applies a Quality Management System in accordance with

ISO 9001:2015

For the scope of activities:

Provision of quality pharmacy education focussing on community and patient health care and indulging in research and development for future growth of pharmacy profession.

181207-Q

Certificate Number

31 December 2020 Date of Last Issue

31 December 2018

30 December 2021

Date of Initial Registration

Date of Expiry







Certificate is Valid for 1 Year ( 31.12.2020 to 30.12.2021) From the Date of Last Issue. Upon Successful Completion of Re Certification Audit New Certificate With an Extended Validity will be issued.

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#402, Plot No.410, Matruari Nogar, Miyapur, Serilingampally, Hyderabad - 500 049, India.

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### GREEN AUDIT REPORT 2019-2020



Samskruti college of pharmacy:: Ghatkesar Kondapur, Ghatkesar, Telangana Accredited by NAAC

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Kondapur(V). Chatkesar(M).

#### Green Audit Assessment Team



# K.Siva Naga Prasad, Lead Auditor EMS/EnMS



#### K.V.Murthy, Lead Auditor EMS/EnMS



Ch.RamaRao,Lead Auditor EMS/EnMS

Principal

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Sr. No.	Titles/Topics		
1	INTRODUCTION		
2	OBJECTIVES		
3	METHODOLOGY		
4	ABOUT THE COLLEGE		
5	VISION & MISSION STATEMENTS		
6	GREEN AUDITING		
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8	GEOGRAPHICAL LOCATION WITH CAMPUS MAP IN SCALE		
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# INTRODUCTION

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#### 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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#### 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, about15 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 three specializations of Pharmacy- Pharmaceutics, Pharmaceutical Analysis and Pharmacology.

#### Programmes offered by the institution

S.NO	<b>Programme Code</b>	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	S01	M.Pharmacy-Pharmacology

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Kondapur(V), Ghatkesar(M), Medchal Dist, PIN-501301

# VISION AND MISSION STATEMENTS

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

#### 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.

Samskruti College of Pharmacy
Kondapur(V), Ghatkesar(M),

Medchal Dist. PIN-501301

## **GREEN AUDITING**

ro to

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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 CO<sub>2</sub>emission, 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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Green Audit Report, SCOP-2020

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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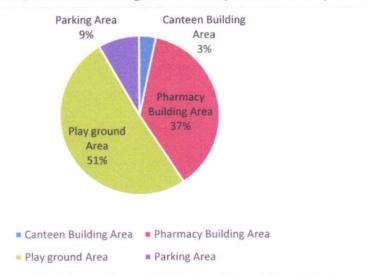
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#### LAND USE DATA OF SCOP, Ghatkesar

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**

		Measurements of room (in Sq.mts.)				
Building/Blocks Name	Level/Floor No.	Room No.	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					2.66	67.705
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

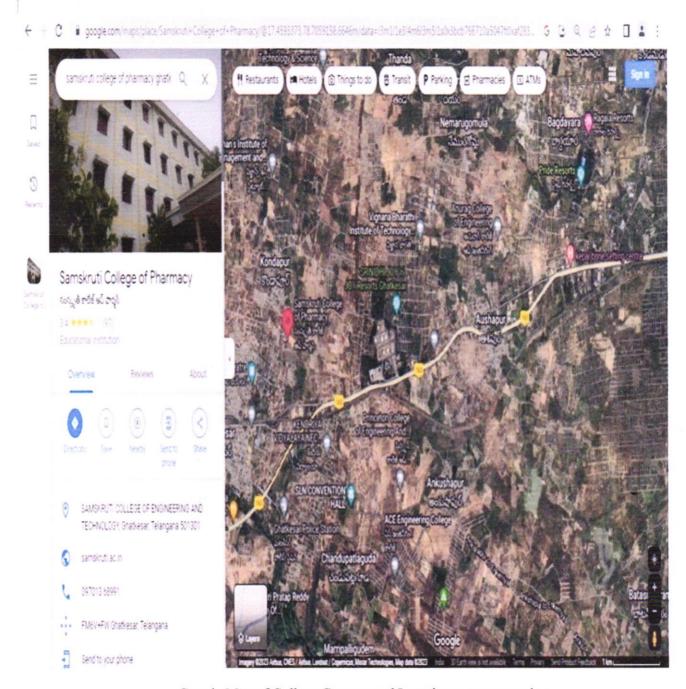
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#### GEOGRAPHICAL LOCATION WITH CAMPUS MAP IN SCALE

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

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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

Primatica internal environmental audit (Green Audit) is conducted to evaluate the Samskruti College of Pharimacy the campus. A survey on trees and other greeneries within the Kondapur(V). Chatkesar(M) by the students.

Medaliai Dist. PIN-501301

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	Fiery 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	06
14	Sago palm	Cycas	02
15	Jennifer	Aster ericoides	01
16	Pomegranate	Punica granatum	03
17	Aloevera	Aloe barbadensis	15
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	07
25	Usirikaaya	Phyllanthus emblica	04
26	Kanuga	Millettia Pinnata	08
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 <b>Pri</b>	ncipal	Manilkara zapota	04
Baurn	lege of Pharmacy Drumstick (M.)	Moringa oleifera	02

Kondapur(V). Grankesar(M), Medahal Dist. PIN-501301

	een Audit Report, SCOP-2020		
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	07
40	Lantana camera flowers	Lantana camera	05
41	Parthenium ( santa maria fever few )	Parthenium hysterophorus	18
42	Orchidtree (kanchon)	Bauhinia variegata	04
43	Sickle pod	Senna obtusifolia	06
44	Achar / chironji tree seeds	Buchananialanzan	01
45	Vampadan climbing shrub	Ventilago madeaspatana	03
46	Lebbeck tree	Langil	05
47	Indian cork tree	Millingtonia hortensis linn.F	06
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 throns	Euphorbia millivar	12
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
6Pri	Frimmet tree	Tabebuia roser	03
regi Col	GRANT Bhaymacy	Syzygiamaustrale	02

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Kondapur(V). Ghatkesar(M), Medchał Dist. PIN-501301

Green Audit Report, SCOP-2020

69	Oyster	Tradescantia spathacea	01
70	Good luck plant	Cordiyline fruticosa	01
71	Pergularia	Pergularia tomentosa	01
72	Cape honey suckle	Tecomaria capensis	05
73	Madagascar periwinkle	Catharanthus roseus	02
74	Phoenix Dactylifera	Arecaceae	02

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#### **Plantation Photo**





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#### Main Entrance - Samskruti Group of Institutions



College Building - Samskruti College of Pharmacy



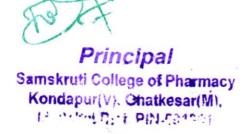
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Cafeteria – Samskruti College of Pharmacy







#### Green Audit Report, SCOP-2020 Play Ground – Samskruti College of Pharmacy



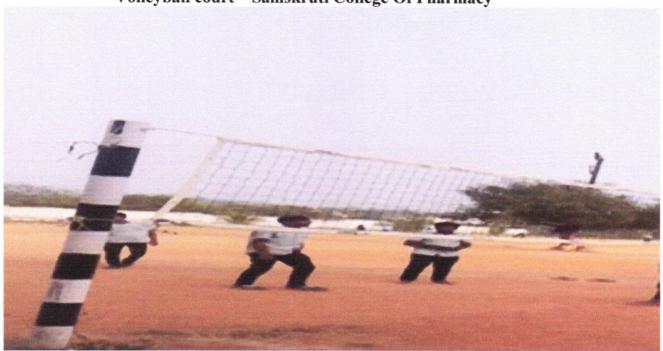
Basket ball court - Samskruti College Of Pharmacy



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Volleyball court - Samskruti College Of Pharmacy



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## FAUNAL DIVERSITY IN SCOP

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### FAUNAL DIVERSITY IN SCOP

SCOP is located in District of Medchal, Telangana India. The highest temperature is recorded 42° 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 variedly 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
	House Sparrow	Passer Domesticus
	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
	Red-Vented Bulbul	Pyenonotus Cafer
12.	Skylark	Aluda Gulgula
13.	Garden Tiger Moth	Arctia 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



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Trees and Plants- Samskruti College Of Pharmacy



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## FLORAL DIVERSITY OF SCOP

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### FLORAL DIVERSITY IN SCOP







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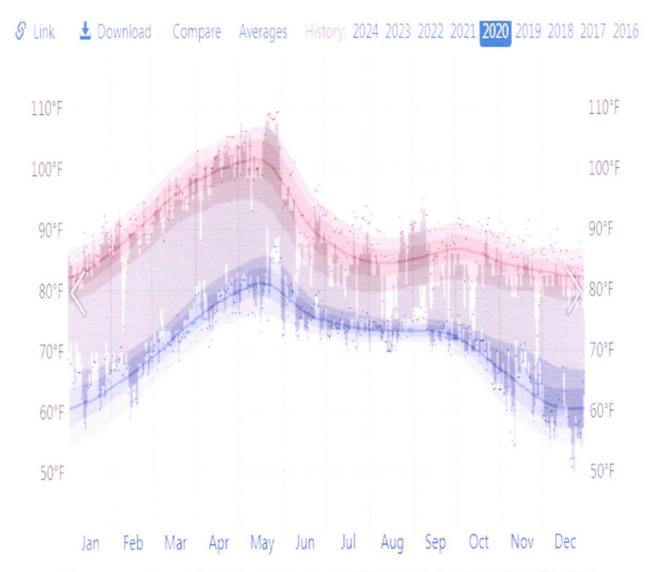
### WEATHER DATA OF SCOP



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### Weather Data - 2020



The daily range of reported temperatures (gray bars) and 24-hour highs (red ticks) and lows (blue ticks), placed over the daily average high (faint red line) and low (faint blue line) temperature, with 25th to 75th and 10th to 90th percentile bands.

Temperature at Samskruti College of Pharmacy, Kondapur, Ghatkesar.

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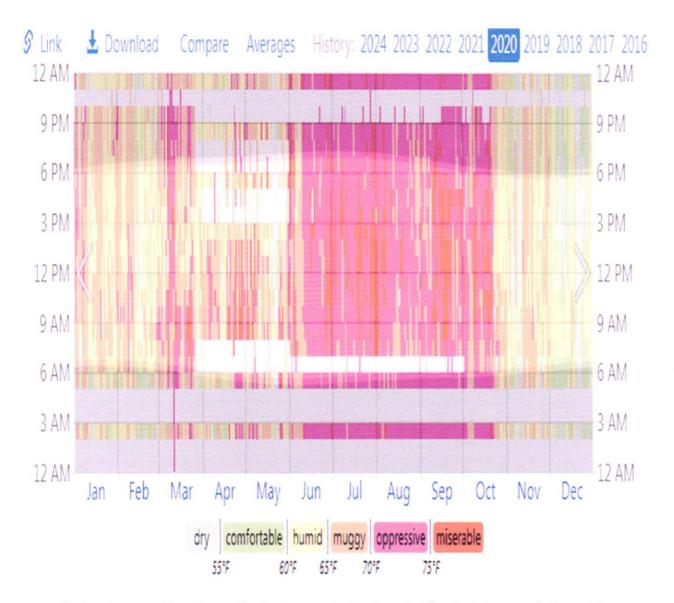


The daily range of reported wind speeds (gray bars), with maximum gust speeds (red ticks).

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

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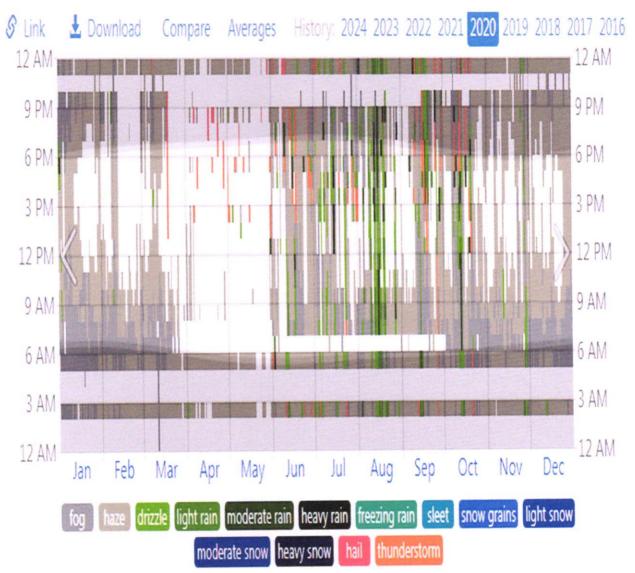


The hourly reported humidity comfort level, categorized by dew point. The shaded overlays indicate night and civil twilight.

Humidity at Samskruti College of Pharmacy, Kondapur, Ghatkesar.

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The hourly observed weather, color coded by category (in order of severity). If multiple reports are present, the most severe code is shown.

Rainfall at Samskruti College of Pharmacy, Kondapur, Ghatkesar.

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### AIR QUALITY OF SCOP

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# SAMSKRUTI COLLEGE OF PHARMACY KONDAPUR(V), GHATKESAR. AIR QUALITY ANALYSIS DETAILS AT SCOP CAMPUS

80 (2012)	0	0	0	0	Netrogen dioxide as NOx(µg/m3)	411
Flow technique)	0	0	0	0	Sulphur die side as \$02(µg/m³)	Last 1
CPCB Manual (NAAQMS 36/2 60 13) Gravimetric method (Cycloni	25	15.5	15.5	20.5	Particulate Matter (PM2.5)	FG .
100 IS 5182 Part- 23 (2012)	7.5	52	52.7	61.6	Particulate Matter (PM10)	-
NAAQS LIMITS TEST METHO	SPORTS L GROUND	ES .	ADMIN CANTI BUILDING AREA	COLLEGE MAIN ENTRANCE	NAME OF THE PARAMETER	S.vo
			TEST RESULTS	II		
				AIR QUALITY ANALYSIS	Sample Description/Code	
				09.19.2020	Sample collection Date	1
				B.Pharm Final Year Students	Sample collected by	
				09.24.2020	Date of Report	_

Checked by Shiva Srikratina, Asst. Prof.



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# NOISE LEVEL IN THE SURROUNDING OF SCOP



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

Date of Report	09.24.2020
Sample collected by	B.Pharm final year students
Sample collected date	09.19.2020
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	57.6
2	Parking area	60	43	60.3	51.66
3	Administrative block	60	40.3	71.4	55.84
4	Canteen	60	48.7	66.9	56.7
5	Main block	60	48	74	62
6	Ladies hostel	60	46	68	57
7	Sports ground	60	50.5	75.6	63.06
8	College main in gate	60	52	72	62

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Shiva Srikrishna, Asst. Prof.

Authorized Signatory Dr. V. Ravi Kumar, Prof.

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# WATER ANALYSIS REPORT OF SCOP

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Samskruti College of Pharmacy, Kondapur (V), Ghatkesar.  Water Consumption Details at SCOP Campus							
Month	Consumption Details for 2017-18 (Liters in Lakhs)	Consumption Details for 2018-19 (Liters in Lakhs)	Consumption Details for 2019-20 (Liters in Lakhs)				
January	2.3	2.0	2.5				
February	2.1	2.3	2.0				
March	2.2	2.0	2.2				
April	2.0	2.5	2.3				
May	2.3	2.2	2.0				
Jun	2.4	2.1	2.2				
July	2.3	2.5	2.0				
August	2.5	2.3	2.3				
September	2.4	22	2.1				
October	2.0	2.1	2.4				
November	2.1	2.0	2.2				
December	2.2	2.0	2.1				

	Water Collection	Details at SCOP Campus	
Month	Collection Details for 2017-18 (Liters in Lakhs)	Collection Details for 2018-19 (Liters in Lakhs)	Collection Details for 2019-20 (Liters in Lakhs)
January	2.7	2.7	2.6
February	2.6	2.5	2.5
March	2.5	2.6	2.6
April	2.8	2.7	3
May	2.7	2.5	2.5
June	2.8	2.7	2.7
July	2.9	2.9	2.5
August	2.6	3	2.7
September	2.7	2.8	2.6
October	2.6	2.9	2.8
November	2.8	2.6	2.8
December	2.9	2.7	2.9

S. Skilerish.

Directed by
Shiva Srikrishna, Asst. prof.

Authorized Signatory Dr. V. Ravi Kumar, Prof.

Principal

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

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

Date of Report	09.24.2020
Sample collected by	B.Pharm final year students
Sample collection Date	09.19.2020
Sample Description /Code	Bore Water

S.NO	Parameter	Unit	Method	Result	IS 10500 lim	its
					Acceptable	Permissible
1	рН		APHA 23 RD EDITION, 4500 H+B	6.72	65.65	No Relaxation
2	Turbidity	NTU	APHA 23 <sup>RD</sup> EDITION, 2130 B	2	2	2
3	Conductivity	µMho/cm	APHA 23 <sup>RD</sup> EDITION, 2510 B	3054		
4	Total dissolved Solids	mg/L	APHA 23 <sup>RD</sup> EDITION, 2540 B	1985	500	2000
5	Colour	CU	APHA 23 <sup>RD</sup> EDITION, 2120 B	<5	5	15
6	Odor			Agreeable	Agreeable	Agreeable
7	P.Alkalinity as caco <sub>3</sub>	mg/L	APHA 23 <sup>RD</sup> EDITION,2320 B	<5		
8	Alkalinity as caco3	mg/L	APHA 23 <sup>RD</sup> EDITION,2320 B	450	200	600
9	Total Hardness as caco3	mg/L	APHA 23 <sup>RD</sup> EDITION, 2340 B	542	200	600
10	Calcium as ca	mg/L	APHA 23 <sup>RD</sup> EDITION,3500 B	110	75	200
11	Magnesium as Mg	mg/L	APHA 23 PD EDITION, 3500 B	14	55	100
12	Sodium as Na	mg/L	APHA 23 <sup>RD</sup> EDITION,3500 B	321		
13	Potassium as K	mg/L	APHA 23 <sup>RD</sup> EDITION, 3500 B	191		
14	Chloride as Cl	mg/L	APHA 23 <sup>RD</sup> EDITION, 4500 B	10.2	250	400
15	Sulphates as So <sub>4</sub> -2	mg/L	APHA 23 <sup>RD</sup> EDITION, 4500 B	0.8	200	No Relaxation
16	Nitrate Nitrogen as N	mg/L	APHA 23 <sup>80</sup> EDITION, 4500 B	<0.3	45	2.5
17	Flourides as F	mg/L	APHA 23 <sup>RD</sup> EDITION, 2500 B	<0.1	1	No Relaxation
18	Iron as Fe	mg/L	APHA 23 <sup>RD</sup> EDITION, 3500 B	< 0.001	0.3	0.3
19	Manganese as Mn	mg/L	APHA 23 <sup>RD</sup> EDITION, 5530 B	<0.01	0.1	0.002
20	Phenols Compounds	mg/L	APHA 23 <sup>RD</sup> EDITION, 2130 B	< 0.01	0.001	No Relaxation
21	Cromium as Cr*	mg/L	APHA 23 <sup>RD</sup> EDITION, 2130 B	< 0.01	0.05	3
22	Residual Chlorine as CL	mg/L	APHA 23 <sup>RD</sup> EDITION, 3111B	< 0.01	0.2	No Relaxation
23	Total cyanide	mg/L	APHA 23 <sup>RD</sup> EDITION,3111 B	<0.01	0.005	1.5
24	Copper as Cu	mg/L	APHA 23 <sup>RD</sup> EDITION,3111B	<0.01	0.005	No Relaxation
25	Cadmiun as Cd	mg/L	APHA 23 <sup>RI3</sup> EDITION,3111B	< 0.01	0.003	1.5
26	Zinc as Zn	mg/L	APHA 23 <sup>RD</sup> EDITION,3111B	<0.5	5	No Relaxation
27	Lead as Pb	mg/L	APHA 23 <sup>RD</sup> EDITION,3111B	<0.01	0.01	400

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Shiva Srikrishna, Asst.prof.

Authorized Signatory Dr. V. Ravi Kumar, Prof.

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

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

Date of Report	09.24.2020
Sample collected by	B.Pharm Final Year Students
Sample collected Date	09.19.2020
Sample Description/Code	Waste Water

S.NO	Parameter	Method	Unit	Result
1	Ph	APHA 23 <sup>RD</sup> Edition 4500 H +		7.20
2	Total Dissolved Solids	APHA 23 <sup>RD</sup> Edition 2504 C	mg/l	706
3	Total Suspended solids	APHA 23 <sup>RD</sup> Edition 2504 D	mg/l	72
4	Chemical Oxygen Demand as COD	APHA 23 <sup>RD</sup> 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 <sup>RD</sup> Edition 5520 B	mg/l	<7

Checked by

Shiva Srikrishna, Asst. Prof.

Authorized Signatory Dr. V. Ravi Kumar, Prof.

Principal

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

Common Water tank

Water harvesting Pit



Water Conservation facilities available in the Institution

to to

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

### Samskruti College of Pharmacy, Kondapur (V), Ghatkesar.

### Water Consumption Details at SCOP Campus

Month	Consumption Details for 2016-17 (Liters in Lakhs)	Consumption Details for 2017-18 (Liters in Lakhs)	Consumption Details for 2018-19 (Liters in Lakhs)	Consumption Details for 2019-20 (Liters in Lakhs)
January	2.1	2.3	2.0	2.5
February	2.4	2.1	2.3	2.0
March	2.1	2.2	2.0	2.2
April	2.5	2.0	2.5	2.3
May	2.2	2.3	2.2	2.0
Jun	2.1	2.4	2.1	2.2
July	2.5	2.3	2.5	2.0
August	2.3	2.5	2.3	2.3
September	2.2	2.4	2.2	2.1
October	2.1	2.0	2.1	2.4
November	2.1	2.1	2.0	2.2
December	2.1	2.2	2.0	2.1

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

### Samskruti College of Pharmacy, Kondapur (V), Ghatkesar.

### Water Collection Details at SCOP Campus

Month	Collection Details for 2016-17 (Liters in Lakhs)	Collection Details for 2017-18 (Liters in Lakhs)	Collection Details for 2018-19 (Liters in Lakhs)	Collection Details for 2019-20 (Liters in Lakhs)
January	2.7	2.7	2.7	2.7
February	2.7	2.6	2.5	2.6
March	2.5	2.5	2.6	2.5
April	2.7	2.8	2.7	2.8
May	2.6	2.7	2.5	2.7
June	2.7	2.8	2.7	2.8
July	2.8	2.9	2.9	2.9
August	2.5	2.6	3	2.6
September	2.8	2.7	2.8	2.7
October	2.7	2.6	2.9	2.6
November	2.6	2.8	2.6	2.8
December	2.8	2.9	2.7	2.9



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

### WASTE DISPOSAL AT SCOP

Fort

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

### 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.



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 were made using whatsApp groups 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 from mess and cafeteria is collected in separate bins. Horticultural waste 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.

Kondapur(V). Ghatkesar(M), Medchal Dist. PIN-501301

### Green Audit Report, SCOP-2020

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 took 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 waste water.

### 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 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.

Principal
Samskruti College of Pharmacy

Kondapur(V). The instruction and the manual fest where the Medchal Dist. PIN-501301 participants from other colleges are invited. As a part of annual fest and some other programs this, the students of the institution makes exhibits by using solid waste like papers, water

### Green Audit Report, SCOP-2020

bottles, iron pieces, rubbers and other e – waste like tube lights, bulbs, etc.

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

Principal

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Medatal Dist. PIN-501301

### **TRANSPORTATION**

Est Est

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Medchal Dist. PIN-501301



College bus Parking Place at SCOP



First Aid Box in the College Bus

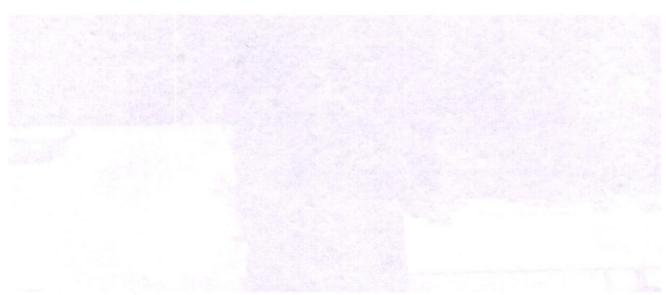


Two wheeler parking and Pedestrian friendly pathways at SCOP

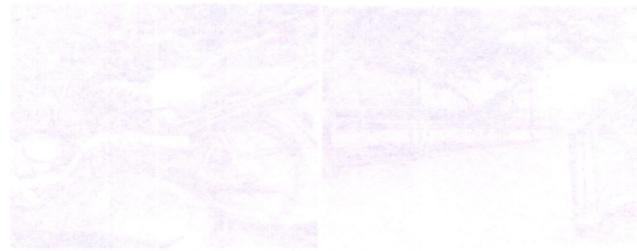
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Kondapur(V). Ghatkesar(M),
Medalini Dist. PIN-501301



College bus Parking Place at 30 t)P



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Green Audit Report, SCOP-2020





Pedestrian friendly pathways at SCOP



Car Parking Place at SCOP

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Medchal Disk PIN-501201



**Bicycle Parking at SCOP** 

Principal

Samskruti College of Pharmacy Kondapur(V). Ghatkesar(M), Medicket Cat. PIN-501301

# ELECTRICAL ENERGY CONSUMPTION AT SCOP

For to

Principal
Samskruti College of Pharmacy
Kondapur(V). Ghatkesar(M),

	ELECTRICAL CONSUMPTION OF SCOP (2016-2020)							
S.NO	Month	2016	2017	2018	2019	2020		
1	January	8300	8,440	5,809	8,406	9,499		
2	February	10380	9,680	14,677	10,863	11,551		
3	March	12880	12,280	12,819	13,122	12,960		
4	April	14320	14,140	11,478	16,546	7,917		
5	May	11580	10,850	11,699	15,897	5,812		
6	June	10680	9,150	14,263	11,850	5,648		
7	July	11980	6,201	12,879	16,366	7,108		
8	August	10942	10,468	15,899	15,805	7,062		
9	September	10398	9,214	18,005	16,368	6,054		
10	October	8012	9,160	12,253	11,170	7,651		
11	November	9508	8,797	13,306	12,395	9,277		
12	December	8940	9,285	11,950	12,326	8,398		
Total (Kwh)		127,920	117,665	155,037	161,114	98,937		

By to

Principal

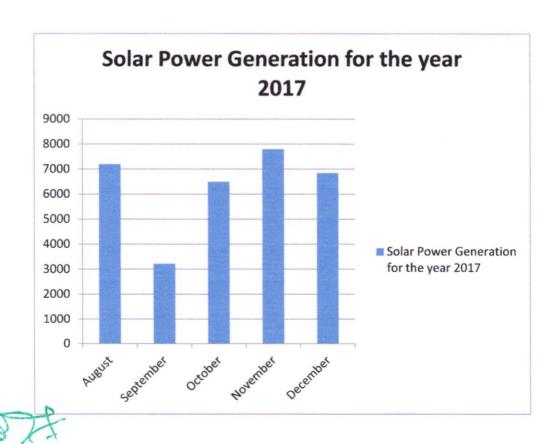
Samskruti College of Pharmacy Kondapur(V). Ghatkesar(M), Medalial Dist. PIN-501301

### SOLAR ENERGY GENERATION IN SCOP

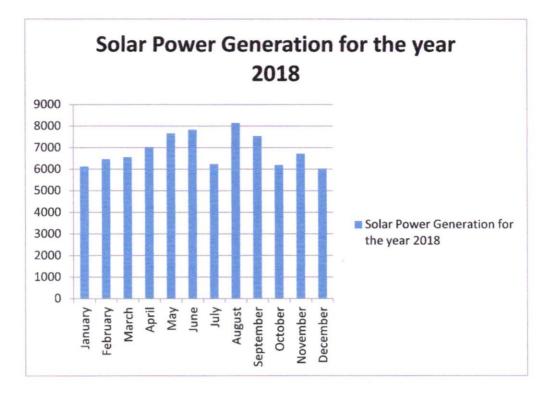
Principal

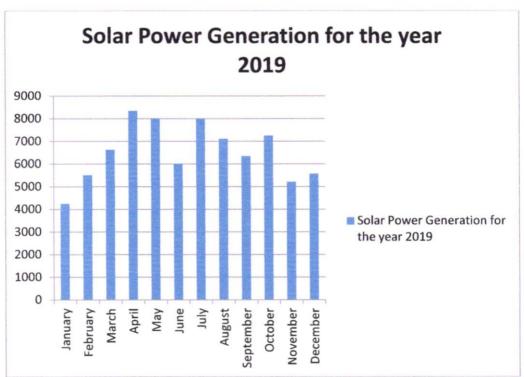
Samskruti College of Pharmacy Kondapur(V). Ghatkesar(M); Medchal Dist. PIN-501301

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



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

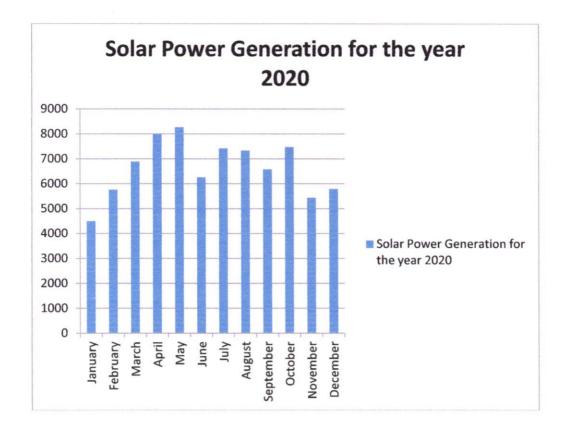




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Medalial Dist. PIN-501301



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

# ENERGY CONSUMPTION AND EXPORT

For the

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

#### 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
To	otal (KWh)	31563	10539	21024	96641	117665

# 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	Principal	1054	4982	6968	11950
C	Samskri	Hi Collogo of DL	rmacy			
Т	otal (KWh)	pur(V).82thatkesa	(M) 16172	66433	88604	155037





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
Tota	al (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 **Principal**e grid thus moving towards a more reliable and greener option and reducing its

Samskruti College of Pharmacy Kondapur(V). Ghatkesar(M), Madchal Dist. PIN-501301 Green Audit Report, SCOP - 2020

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 inhabitance. 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
Tot	al (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 at controls the solar power generation from 1% to 100% as per the load

Samskrutirequirement Pharmactaining spinning reserve of DG at about 25-30%. Apart from this, a

Kondapurity Charkesar Mile has installed at incoming main busbar to maintain Unity Power Factor

Medciral Dist. PIN-501301

throughout a day.

Green Audit Report, SCOP - 2020
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 Samskruti College of Pharmac; Kondapur(V). Ohatkesar(M), Medatal Dist. PIN-501301

# EXPENDITURE ON GREEN INITIATIVES DURING THE LAST FIVEYEARS

For A

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

#### 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.)
2015 - 2016	49,465/-			49,465/-
2016 - 2017	46,750/-			46,750/-
2017 - 2018	1,40,400/-			1,40,400/-
2018 - 2019	1,44,200/-			1,44,200/-
2019 - 2020	1,50,000/-			1,50,000/-

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

Principal

Samskruti College of Pharmacy

Kondapur ya Statkesar(M),

# Certificate of Registration

GMCSPL hereby certify that the organization

# SAMSKRUTI COLLEGE OF PHARMACY

Kondapur, Ghatkesar, Medchal Malkajgiri District, Telangana- 501301

Has established and applies a Energy Management System in accordance with

ISO 50001:2011

For the scope of activities:

Provision of quality pharmacy education focussing on community and patient health care and indulging in research and development for future growth of pharmacy profession.

181201-EM

Certificate Number

31 December 2018

Date of Initial Registration

31 December 2019
Date of Last Issue

30 December 2020 Date of Expiry







Certificate is Valid for 2 Years (31.12.2019 to 30.12.2021) From the Date of Last Issue. Upon Successful Completion of Surveillance Audit New Certificate With an Extended Validity will be issued.

Signed on behalf of GMCSPL

Global Management Certification Services Pvt.Ltd.

#402, not No.410, Mortust Nagar, Myapur, Sertingampathy, Pryderabad – 300 049, India.

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# Certificate of Registration

GMCSPL hereby certify that the organization

# SAMSKRUTI COLLEGE OF PHARMACY

Kondapur, Ghatkesar, Medchal Malkajgiri District, Telangana- 501301

Has established and applies an Environmental Management System in accordance with

ISO 14001:2015

For the scope of activities:

Provision of quality pharmacy education focussing on community and patient health care and indulging in research and development for future growth of pharmacy profession.

181202-E

Certificate Number

31 December 2018

Date of Initial Registration

31 December 2019
Date of Last Issue

30 December 2020 Date of Expiry







Certificate is Valid for 2 Years (31.12.2019 to 30.12.2021) From the Date of Last Issue. Upon Successful Completion of Surveillance Audit New Certificate With an Extended Validity will be issued.

Signed on behalf of GMCSPL

### Global Management Certification Services Pvt.Ltd.

#402, Plot No.410, Matrusri Nagar, Miyapur, Serilingampally, Hyderobad – 500 049, India.

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Samskruti College of Pharma

Kondapur (V), Ghatkesar (M), Medchal Dist, PIN-501361

# Certificate of Registration

GMCSPL hereby certify that the organization

# SAMSKRUTI COLLEGE OF PHARMACY

Kondapur, Ghatkesar, Medchal Malkajgiri District, Telangana- 501301

Has established and applies a Quality Management System in accordance with

ISO 9001:2015

For the scope of activities:

Provision of quality pharmacy education focussing on community and patient health care and indulging in research and development for future growth of pharmacy profession.

181207-Q

Certificate Number

31 December 2019
Date of Last Issue

31 December 2018

Date of Initial Registration

30 December 2020 Date of Expiry







Certificate is Valid for 2 Years (31.12.2019 to 30.12.2021) From the Date of Last Issue. Upon Successful Completion of Surveillance Audit New Certificate With an Extended Validity will be issued.

Signed on behalf of GMCSPL

Global Management Certification Services Pvt.Ltd.

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Samskruti College of Pharmacv

Kondapur (V), Ghatkesar (T. Medchal Dist, PIN-501381

# GREEN AUDIT REPORT 2018-2019



Samskruti college of pharmacy:: Ghatkesar Kondapur, Ghatkesar, Telangana Accredited by NAAC

Principal

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

# GREEN AUDIT REPORT



Kondapur, Ofiniocar, Telangena Accredited by NAAS

Principal
Samskrott College of Pharmacy
Kondapun(V), Charkesan(M),
Merichal

# Green Audit Assessment Team



# K.Siva Naga Prasad, Lead Auditor EMS/EnMS



# K.V.Murthy,Lead Auditor EMS/EnMS



Ch.RamaRao,Lead Auditor EMS/EnMS

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

## Green Audit Assessment Team

K. Siva Naga Prasad, Lead Auditor EMS/EnMS

K.V.Murthy,Lead Auditor EMS/EmMS



Ch.RamaRao, Lead Auditor EMS/Entl/S

Principal
Samskrutt College of Pharmacy
Kondepyel/N. (Nathonal/M)
Nethology

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2	OBJECTIVES
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6	GREEN AUDITING
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19	EXPENDITURE ON GREEN INITIATIVES DURING THE LAST FIVE YEARS

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Principal

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

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# **INTRODUCTION**

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#### 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

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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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    - mass with the presignant or must be result to a section of the particle of the

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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.

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

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# **ABOUT THE COLLEGE**

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#### 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, about15 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 three specializations of Pharmacy- Pharmaceutics, Pharmaceutical Analysis and Pharmacology.

#### 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
09	S01	M.Pharmacy-Pharmacology

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# VISION AND MISSION STATEMENTS

**Principal** 

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

# VISION AND STATEMENTS

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### 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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Samskruti College of Pharmacy
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- To compower the turney and an open with enemiadges shalls and success thinking to facilitate discovery or cancerdae existing and yet to be substituted from an open or supplication of the facilitates.

### Mission

- For some and dievelop studency into professional pharmateurs 50 to 2 february significant community action. To succeed the responsibility of economic and students made made and by moviding pharmateuristical care.
- For maintain high values and standards so as to make students technologic live competent and calcipulty strong individuals who shall be able to implie a secondary of our country.

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### **GREEN AUDITING**

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Kondapur(V). Ghatkesar(M).
Medchal Dist. PIN-501301

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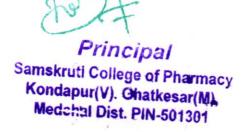
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### **GREEN AUDITING**

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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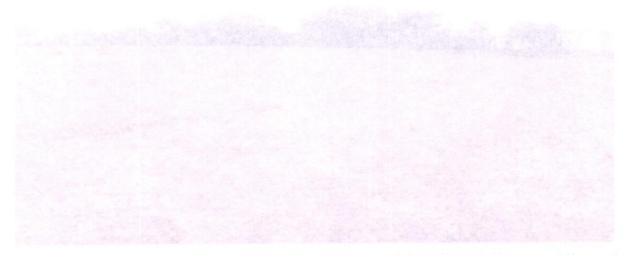
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The solid waste will be collected from all the sources such as from Kitchen, bathrooms inside the canteen which includes papers, plastics, foods, metals, glass etc. and it will be segregated from source of generation. The administrative supervisor 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 CO<sub>2</sub>emission, 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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Samskruti College of Pharmacy Kondapur(V), Ghatkesar(M), Medchal Dist. PIN-501301

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Green Audit Report, SCOP-2019

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.

Principal

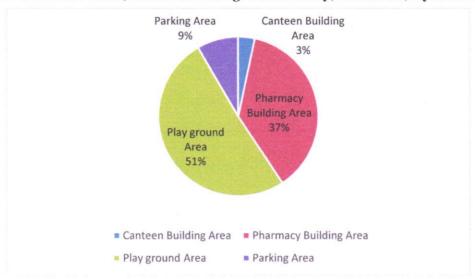
Samskruti College of Pharmacy Kondapur(V). Ghatkesar(N),

Medahiri Dist. PIN-501301

### LAND USE DATA OF SCOP, Ghatkesar

<b>Canteen Building Area</b>	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.

**Principal** 

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

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### Green Audit Report, SCOP-2019

### Area occupied by various buildings of SCOP

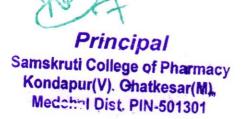
### **Instructional Area Details**

			Mea	surements	of room (i	n Sa.mts.)
Building/Blocks Name	Level/Floor No.	Room No.	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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Medchal Dist. PIN-501301

### **Lab Area Details**

Building/Blocks Name	Level/Floor No.	Room No.	Length	Breadth	Height	Area (L*b)
SAMSKRUTI COLLEGE	_	400	7.24	0.45	2.55	66.00
<b>OF PHARMACY</b>	0	102	7.21	9.15	3.66	66.02
SAMSKRUTI COLLEGE					2.00	67.705
OF PHARMACY	0	106	7.39	9.15	3.66	67.795
SAMSKRUTI COLLEGE					2.00	67.67
OF PHARMACY	0	107	7.39	9.15	3.66	67.67
SAMSKRUTI COLLEGE					3.66	102.46
OF PHARMACY	0	108	11.20	9.15	3.00	102.40
SAMSKRUTI COLLEGE					3.66	67.67
OF PHARMACY	0	109	7.39	9.15	5.00	07.07
SAMSKRUTI COLLEGE					3.66	68.5
OF PHARMACY	1	201	7.5	9.15	5.00	06.5
SAMSKRUTI COLLEGE						102.46
<b>OF PHARMACY</b>	1	202	11.20	9.15	3.66	102.46
SAMSKRUTI COLLEGE						102.46
OF PHARMACY	1	203	11.20	9.15	3.66	102.46
SAMSKRUTI COLLEGE						CO. F.
<b>OF PHARMACY</b>	1	204	7.5	9.15	3.66	68.5
SAMSKRUTI COLLEGE						16.27
OF PHARMACY	1	210	1.79	9.15	3.66	16.37
SAMSKRUTI COLLEGE						CO. F
<b>OF PHARMACY</b>	2	301	7.5	9.15	3.66	68.5
SAMSKRUTI COLLEGE						102.56
OF PHARMACY	2	305	11.20	9.15	3.66	102.56
SAMSKRUTI COLLEGE						COF
OF PHARMACY	2	310	7.5	9.15	3.66	68.5
SAMSKRUTI COLLEGE						102.56
<b>OF PHARMACY</b>	3	401	11.20	9.15	3.66	102.56
SAMSKRUTI COLLEGE						102.56
OF PHARMACY	3	402	11.20	9.15	3.66	102.56
SAMSKRUTI COLLEGE						472.22
OF PHARMACY	3	406	18.83	9.15	3.66	172.32
SAMSKRUTI COLLEGE						102.50
<b>OF PHARMACY</b>	3	408	11.20	9.15	3.66	102.56
SAMSKRUTI COLLEGE						60.5
OF PHARMACY	3	409	7.5	9.15	3.66	68.5
SAMSKRUTI COLLEGE						60.5
OF PHARMACY	3	412	7.5	9.15	3.66	68.5
SAMSKRUTI COLLEGE						60.5
OF PHARMACY	3	413	7.5	9.15	3.66	68.5
						68.5
CANTEEN BUILDING	1	105	7.5	9.15	3.66	06.5



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Principal
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# GEOGRAPHICAL LOCATION WITH CAMPUS MAP IN SCALE

Principal

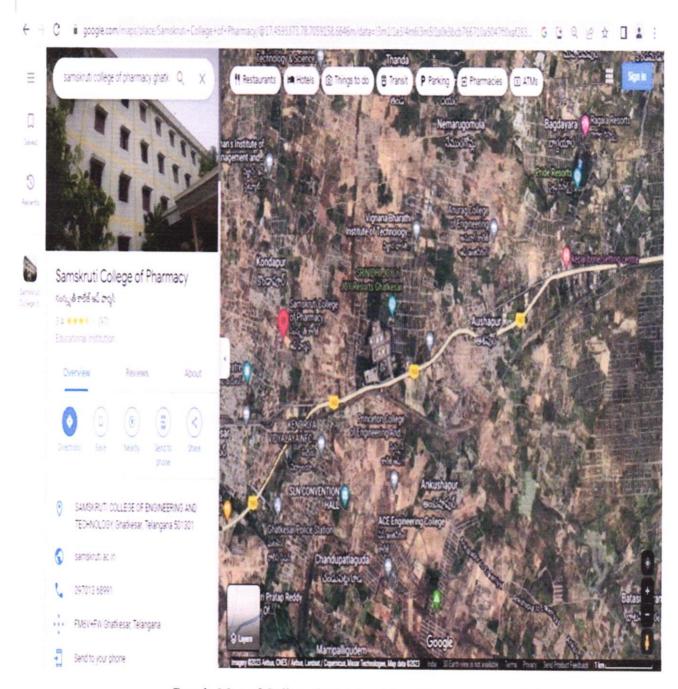
Samskruti College of Pharmacy Kondapur(V). Ghatkesar(M), Medchal Dist. PIN-501301

# GEOGRAPHICAL LOCATION WITH CAMPUS MAP IN SCALE

Pristospol
Samskridi Collage of Pharmacy
Kondappit(V), OkiatkosariNi,
Medchal Dist, 244-501301

### 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.



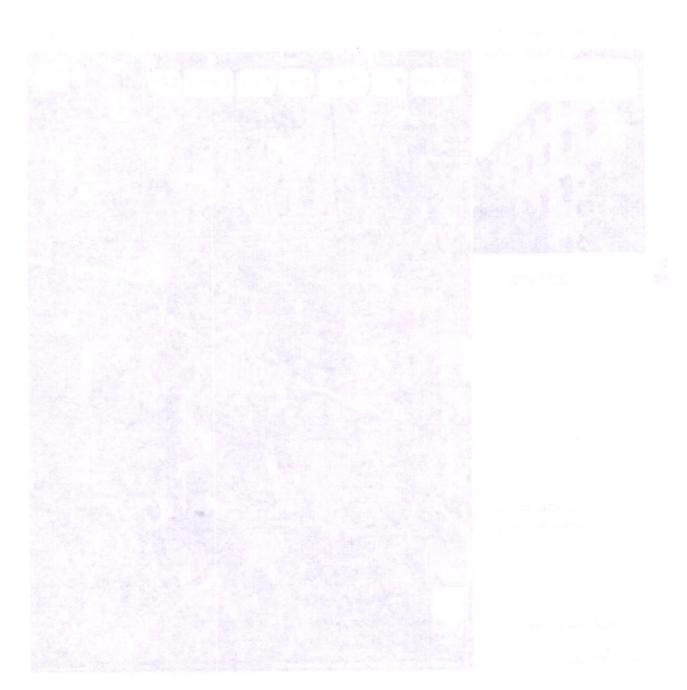
Google Map of College Campus and Location map screen shot

Principal

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

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## TREE DIVERSITY OF SCOP

**Principal** 

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

## TREDIVERSITY 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 Principal and has taken steps in environmental conservation and protection. As a part of such amskruti College of Pharmacy in environmental audit (Green Audit) is conducted to evaluate the Kondapur(V).

Kondapur(V).

Medical Pastago on the campus. A survey on trees and other greeneries within the

campus was done by the students.

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of C.P. while the geosposition between brienderN 17e27'u2 69092' and interinally allowed to be able to the electropasses an area of the able to seek in area is ammented diverse with a variety of tree species perform a cariety of tree transfers. In all the electron Most of these tree values into planted in different parious and the through variants pranetion programmes organized by the authority and the occurrence integral part of the college.

The neets of the college have meressed and quality of the in terms of commontant out servicement by providing crysten, inner any quality, climate amisforation, out servicement in the comparing with the comparing without on which preserving with and supportants without one prolling climate by mederating the effects of sum rain and winds I were absorb and there are dependent outress therefore the surface of the surface of fine contraction of these and plants is a favor not these months in sections. See all of these and plants is a favor not these months in sections.

I can accord branches keep many actuals, such as birds and squincls, can of come, of per constant to the period species display a seasonable contest viniety of shapes come, and obtain rolors. Even individual class was been appearance throughout the contest of the year as the seasons charge. The strength, long infrapant and regularantest the give them a monument. They also remaind us the glormer discussion of SCOP and our instination in particular. We often make an appearance of the contest our with these tree, and smalling notional personally anathral to the case of the contest of the

stands not of large stady trees in the periphery of the coffege bave four-fitteringuag down raise and car down dust and stands. Thus, the callings has need bringing a significant rate in meantaining the environment of the arranging area.

\*\*Concern audit\*\* 14 in principle encourage to ender the educational maintain and the assistance of the green maint is as ensure that the Coren Policy is followed and implicated in the campus, Samakani college of the Plantmacy implicated and insultantly practices in manage the assistance resources the time that the page in an armental conservation and protection. As a part of social standard of the company of the Coren Aedit) is accencied to evaluate the secretary factors of the company of mace and other greatures within the meeting factors.

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### Green Audit Report, SCOP-2019

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	Fiery 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	06
14	Sago palm	Cycas	02
15	Jennifer	Aster ericoides	01
16	Pomegranate	Punica granatum	03
17	Aloevera	Aloe barbadensis	15
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	07
25	Usirikaaya	Phyllanthus emblica	04
26	Kanuga	Millettia Pinnata	08
27	Mango	Mangifera indica	03
28	Marri chettu	Ficus benghalensis	02
29	Raavi chettu	Ficus religiosa	04
<b>BijColl</b>	seef Pharmacy	Annona reticulata	02
ipur(V) chal Di	Chatkesar(M), st <sup>P</sup> PIN 98 11301	Alstonias cholaris	04
32	Sapota	Manilkara zapota	04
33	Drumstick	Moringa oleifera	02

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34	reen Audit Report, SCOP-2019 Henna Tree	Lawsonia inermis	02
			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	07
40	Lantana camera flowers	Lantana camera	05
41	Parthenium ( santa maria fever few )	Parthenium hysterophorus	18
42	Orchidtree (kanchon)	Bauhinia variegata	04
43	Sickle pod	Senna obtusifolia	06
44	Achar / chironji tree seeds	Buchananialanzan	01
45	Vampadan climbing shrub	Ventilago madeaspatana	03
46	Lebbeck tree	Langil	05
47	Indian cork tree	Millingtonia hortensis linn.F	06
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 throns	Euphorbia millivar	12
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		Tabebuia roser	03
Kondapur(V	llege of Pharmacy Brush berry J. Ghatkesar(M),	Syzygiamaustrale	02

Kondapur(V), Gnatkesar(M), Medchal Dist PIN-501301

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Green Audit Report, SCOP-2019

69	Oyster	Tradescantia spathacea	01
70	Good luck plant	Cordiyline fruticosa	01
71	Pergularia	Pergularia tomentosa	01
72	Cape honey suckle	Tecomaria capensis	05

Principal
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Kondapur(V). Ghatkesar(M),
Medchal Dist. PIN-501301

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### **Plantation Photos**



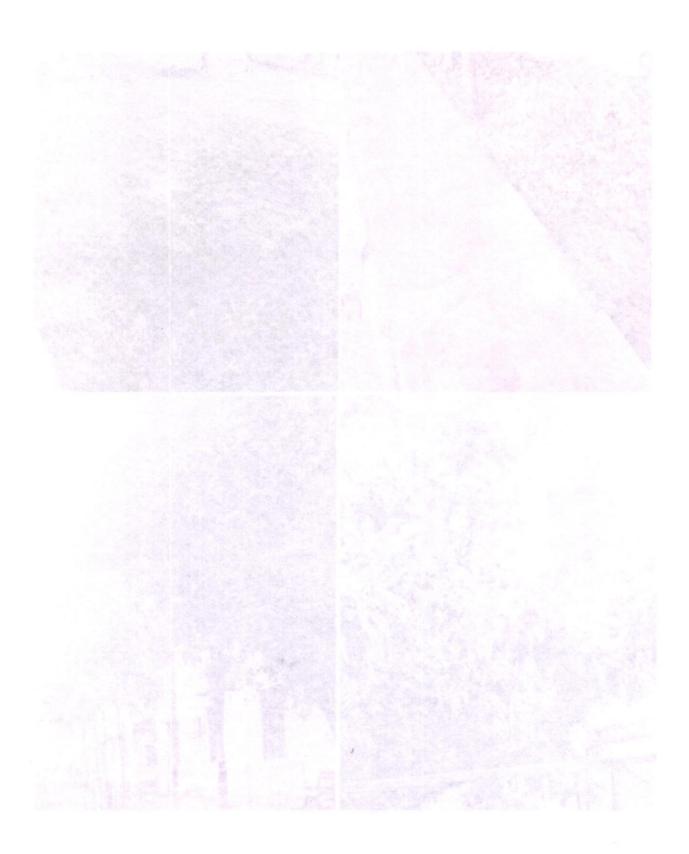
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Samskruti College of Pharmac, Kondapur(V), Ghatkesar(M), Medchal Dist. PIN-501301



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### Green Audit Report, SCOP-2019

### Main Entrance - Samskruti Group of Institutions



College Building - Samskruti College of Pharmacy



Principal amekusti College of B

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

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Principal

Lamskrott College of Pharmacy Kondapur(V), Ghatkesar(N), Medotal Dist, PRI-501301 Cafeteria - Samskruti College of Pharmacy



Canteen - Samskruti College of Pharmacy



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Francipal

Samstrud College of Pharmacy Nondapur(V), Onedesar(R), Nedchal Dier, PRI-301301

## Play Ground - Samskruti College of Pharmacy



Basket ball court - Samskruti College Of Pharmacy



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

Par Cronad - Samsteres College of Pharmac

Basket ball court - Som icruit College Of Pharmacy

YMISSERBATEN YMISSERBATEN YOSOLÆHA I Volleyball court - Samskruti College Of Pharmacy





Principal

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

torean Audit Report, SCOP-2019

Volleyball court - Samslerdi College Of Pharmacy

Principal

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# FAUNAL DIVERSITY IN SCOP

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Samskruti College of Pharmacy
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## FAUNAL DIVERSITY IN SCOP

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### FAUNAL DIVERSITY IN SCOP

SCOP is located in District of Medchal, Telangana India. The highest temperature is recorded 42° 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 variedly 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
	House Sparrow	Passer Domesticus
	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
	Red-Vented Bulbul	Pycnonotus Cafer
12.	Skylark	Aluda Gulgula
13.	Garden Tiger Moth	Arctia Caja
14.	Little Owl	Athene Brama
15.	Oleander Moth	Syntomeida Epilais
16.	Slender Skimmer	Orthetrum Sabina
	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

Principal

Samskruti College of Pharmacy

Kondapur(V). Chatkesar(M),

Medchal Dist. PIN-501301

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

### Trees and Plants- Samskruti College of Pharmacy





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

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Wedclool Dist. PNI-501301

## FLORAL DIVERSITY OF SCOP

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Samskruti College of Pharmacy
Kondapur(V), Chatkesar(M),
Medahal Dist. PIN-501301

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## Green Audit Report, SCOP-2019

## FLORAL DIVERSITY IN SCOP







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## WEATHER DATA OF SCOP

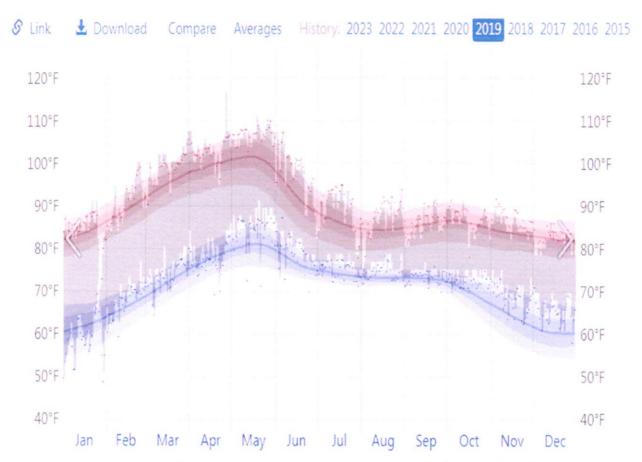
Principal

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## WEATHER DATA OF SCOP

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### Weather Data - 2019



The daily range of reported temperatures (gray bars) and 24-hour highs (red ticks) and lows (blue ticks), placed over the daily average high (faint red line) and low (faint blue line) temperature, with 25th to 75th and 10th to 90th percentile bands.

Temperature at Samskruti College of Pharmacy, Kondapur, Ghatkesar.

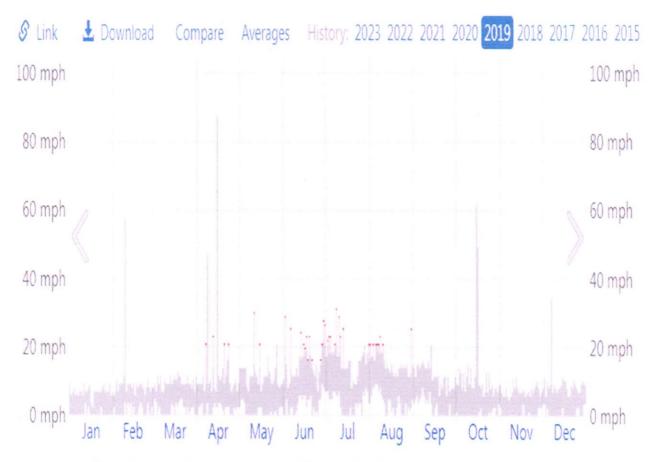
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Samskruti College of Pharmac, Kondapur(V). Ghatkesar(N), Medchal Dist. PIN-501301

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The daily range of reported wind speeds (gray bars), with maximum gust speeds (red ticks).

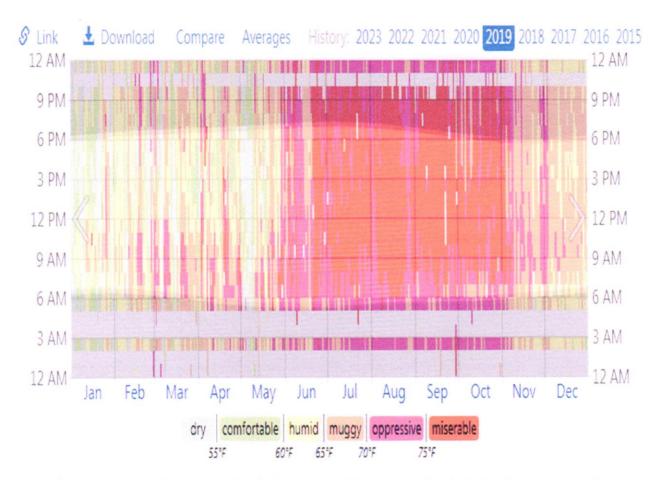
Wind Speed at Samskruti College of Pharmacy, Kondapur, Ghatkesar.

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The hourly reported humidity comfort level, categorized by dew point. The shaded overlays indicate night and civil twilight.

Humidity at Samskruti College of Pharmacy, Kondapur, Ghatkesar.

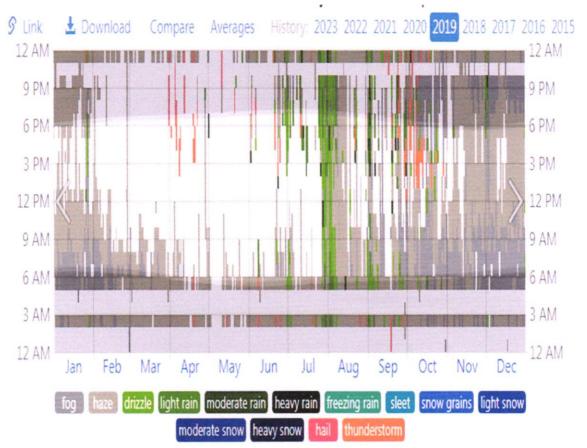
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The hourly observed weather, color coded by category (in order of severity). If multiple reports are present, the most severe code is shown.

Rainfall at Samskruti College of Pharmacy, Kondapur, Ghatkesar.

Principal

Samskruti College of Pharmacy

Kondapur(V), Ghatkesar(M), Medahr Dist, PIN-501301

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## AIR QUALITY OF SCOP

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

## AIR QUALITY OF SCOP

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# SAMSKRUTI COLLEGE OF PHARMACY KONDAPUR(V), GHATKESAR.

# AIR QUALITY ANALYSIS DETAILS AT SCOP CAMPUS

	Sample collected by Sample collection Date Sample Description/Code	09.24.2019  B.Pharm Final Year Students 09.19.2019  AIR QUALITY ANALYSIS				-	
			TEST RESULTS				
S.NO	NAME OF THE PARAMETER	COLLEGE MAIN ENTRANCE	ADMIN	CANTEEN AREA	SPORTS	NAAQS	TEST METHOD
-	Particulate Matter (PM10)	61.5	52.6	52	75.	100	IS 5182: Part- 23 (2012)
2	Particulate Matter (PM2.5)	20.4	15.5	15.6	25	60	CPCB Manual (NAAQMS/36/2012- 13) Gravimetric method (Cyclonic Flow technique)
3	Sulphur dioxide as SO2(μg/m3)	0	0	0	0	80	IS 5182: Part- 2 (2012)
4	Nitrogen dioxide as NOx(µg/m3)	0	0	0	0	80	IS 5182: Part- 6 (2012)

Checked by Shiva Srikrishna, Asst. Prof.

Principal
Principal
Samskruti College of Pharmacy
Kondapur(V). Chatkesar(N),
Medobini Dist. PiN-501301

Authorized Signatory Dr. D. Venkata Ramana, Prof.

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# NOISE LEVEL IN THE SURROUNDING OF SCOP

**Principal** 

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

# NOISE LEVEL IN SURGED IN SURGED IN SCOOL

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

Date of Report	09.24.2019
Sample collected by	B.Pharm final year students
Sample collected date	09.19.2019
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	57.6
2	Parking area	60	43	60.3	51.66
3	Administrative block	60	40.3	71.4	55.84
4	Canteen	60	48.7	66.9	56.7
5	Main block	60	48	74	62
6	Ladies hostel	60	46	68	57
7	Sports ground	60	50.5	75.6	63.06
8	College main in gate	60	52	72	62

S. Serberish -

Checked by Shiva Srikrishna, Asst. Prof. Authorized Signatory Dr. D. Venkata Ramana, Prof.

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

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# WATER ANALYSIS REPORT OF SCOP

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

# WATER ANALYSIS REPORT OF

Principal
College of Phamae)
(Condepvi(V), Chameaside,
Nondepvi(V), Chameaside,
Nucleich Dist. Phi-Spraul

	Water Consumption Details at SCOP Campus					
Month	Consumption Details for 2016-17 (Liters in Lakhs)	Consumption Details for 2017-18 (Liters in Lakhs)	Consumption Details for 2018-19 (Liters in Lakhs)			
January	2.1	2.3	2.0			
February	2.4	2.1	2.3			
March	2.1	2.2	2.0			
April	2.5	2.0	2.5			
May	2.2	2.3	2.2			
Jun	2.1	2.4	2.1			
July	2.5	2.3	2.5			
August	2.3	2.5	2.3			
September	2.2	2.4	2.2			
October	2.1	2.0	2.1			
November	2.1	2.1	2.0			
December	2.1	2.2	2.0			

	Water Collection Details at SCOP Campus					
Month	Collection Details for 2016-17 (Liters in Lakhs)	Collection Details for 2017-18 (Liters in Lakhs)	Collection Details for 2018-19 (Liters in Lakhs)			
January	2.7	2.7	2.7			
February	2.7	2.6	2.5			
March	2.5	2.5	2.6			
April	2.7	2.8	2.7			
May	2.6	2.7	2.5			
June	2.7	2.8	2.7			
July	2.8	2.9	2.9			
August	2.5	2.6	3			
September	2.8	2.7	2.8			
October	2.7	2.6	2.9			
November	2.6	2.8	2.6			
December	2.8	2.9	2.7			

S. Szileliki Directed by Shiva Srikrishna, Asst. prof.

Authorized Signatory Dr. D. Venkata Ramana, Prof.

Principal

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

Date of Report	09.24.2019
Sample collected by	B.Pharm final year students
Sample collection Date	09.19.2019
Sample Description /Code	Bore Water

S.NO	Parameter	Unit	Method	Result	IS 10500 limits	
					Acceptable	Permissible
1	рН		APHA 23 <sup>RD</sup> EDITION, 4500 H+B	6.75	65.65	No Relaxation
2	Turbidity	NTU	APHA 23 <sup>RD</sup> EDITION, 2130 B	2	2	2
3	Conductivity	µMho/cm	APHA 23 <sup>RD</sup> EDITION, 2510 B	3054		
4	Total dissolved Solids	mg/L	APHA 23 <sup>RD</sup> EDITION, 2540 B	1985	500	2000
5	Colour	CU	APHA 23 <sup>RD</sup> EDITION, 2120 B	<5	5	15
6	Odor			Agreeable	Agreeable	Agreeable
7	P.Alkalinity as caco <sub>3</sub>	mg/L	APHA 23 <sup>RD</sup> EDITION,2320 B	<5		
8	Alkalinity as caco3	mg/L	APHA 23 <sup>RD</sup> EDITION,2320 B	453	200	600
9	Total Hardness as caco <sub>3</sub>	mg/L	APHA 23 <sup>RD</sup> EDITION, 2340 B	543	200	600
10	Calcium as ca	mg/L	APHA 23 <sup>RD</sup> EDITION,3500 B	111	75	200
11	Magnesium as Mg	mg/L	APHA 23 <sup>RD</sup> EDITION, 3500 B	14	55	100
12	Sodium as Na	mg/L	APHA 23 <sup>RD</sup> EDITION,3500 B	321		100
13	Potassium as K	mg/L	APHA 23 <sup>RD</sup> EDITION, 3500 B	191	-	
14	Chloride as Cl	mg/L	APHA 23 <sup>RD</sup> EDITION, 4500 B	10.2	250	400
15	Sulphates as So <sub>4</sub> -2	mg/L	APHA 23 <sup>RD</sup> EDITION, 4500 B	0.8	200	No Relaxation
16	Nitrate Nitrogen as N	mg/L	APHA 23 <sup>RD</sup> EDITION, 4500 B	<0.3	45	2.5
17	Flourides as F	mg/L	APHA 23 <sup>RD</sup> EDITION, 2500 B	<0.1	1	No Relaxation
18	Iron as Fe	mg/L	APHA 23 <sup>RD</sup> EDITION, 3500 B	< 0.001	0.3	0.3
19	Manganese as Mn	mg/L	APHA 23 <sup>RD</sup> EDITION, 5530 B	< 0.01	0.1	0.002
20	Phenols Compounds	mg/L	APHA 23 <sup>RD</sup> EDITION, 2130 B	< 0.01	0.001	No Relaxation
21	Cromium as Cr <sup>+</sup>	mg/L	APHA 23 <sup>RD</sup> EDITION, 2130 B	< 0.01	0.05	3
22	Residual Chlorine as CL	mg/L	APHA 23 <sup>RD</sup> EDITION, 3111B	<0.01	0.2	No Relaxation
23	Total cyanide	mg/L	APHA 23 <sup>RD</sup> EDITION,3111 B	<0.01	0.005	1.5
24	Copper as Cu	mg/L	APHA 23 <sup>RD</sup> EDITION,3111B	<0.01	0.005	No Relaxation
25	Cadmiun as Cd	mg/L	APHA 23 <sup>RD</sup> EDITION,3111B	<0.01	0.003	1.5
26	Zinc as Zn	mg/L	APHA 23 <sup>RD</sup> EDITION,3111B	<0.5	5	No Relaxation
27	Lead as Pb	mg/L	APHA 23 <sup>RD</sup> EDITION,3111B	<0.01	0.01	400

S. Stilllish ... Directed by Shiva Srikrishna, Asst.prof.

Authorized Signatory Dr. D. Venkata Ramana, Prof.

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

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

Date of Report	09.24.2019	
Sample collected by	B.Pharm Final Year Students	
Sample collected Date	09.19.2019	
Sample Description/Code	Waste Water	

S.NO	Parameter	Method	Unit	Result
1	Ph	APHA 23 <sup>RD</sup> Edition 4500 H + B		7.20
2	Total Dissolved Solids	APHA 23 <sup>RD</sup> Edition 2504 C	mg/l	705
3	Total Suspended solids	APHA 23 <sup>RD</sup> Edition 2504 D	mg/l	71
4	Chemical Oxygen Demand as COD	APHA 23 <sup>RD</sup> 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 <sup>RD</sup> Edition 5520 B	mg/l	<7

S. Shiklish Checked by

Shiva Srikrishna, Asst. Prof.

Authorized Signatory Dr. D. Venkata Ramana, Prof.

Frincipal

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

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### Common Water tank



RAIN WATER HARVESTING

Water Conservation facilities available in the Institution

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Kondapur(V). Ghatkesar(M),
Medchal Dist. PIN-501301

Austrole Paragrae



Water Conservation (acidities available in the Institution

Principal
Samstoud College of Plasmacy
Kondeput(4), Charlesai(A),
Modehal List, Plk-501301

### Green Audit Report, SCOP-2019

	Water Consumption Details at SCOP Campus					
Month	Consumption Details for 2016-17 (Liters in Lakhs)	Consumption Details for 2017-18 (Liters in Lakhs)	Consumption Details for 2018-19 (Liters in Lakhs)			
January	2.1	2.3	2.0			
February	2.4	2.1	2.3			
March	2.1	2.2	2.0			
April	2.5	2.0	2.5			
May	2.2	2.3	2.2			
Jun	2.1	2.4	2.1			
July	2.5	2.3	2.5			
August	2.3	2.5	2.3			
September	2.2	2.4	2.2			
October	2.1	2.0	2.1			
November	2.1	2.1	2.0			
December	2.1	2.2	2.0			

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		Consumption Details for 1016-17 (Liners in Lailus)		

Pf. 275.; Jüs Somskrug Corlege of Pharmas; Kondepurte), Onstreserthis molecter Dist. Pitt-Corpor

Samskruti College of Pharmacy, Kondapur (V), Ghatkesar.					
Water Collection Details at SCOP Campus					
Month	Collection Details for 2016-17 (Liters in Lakhs)	Collection Details for 2017-18 (Liters in Lakhs)	Collection Details for 2018-19 (Liters in Lakhs)		
January	2.7	2.7	2.7		
February	2.7	2.6	2.5		
March	2.5	2.5	2.6		
April	2.7	2.8	2.7		
May	2.6	2.7	2.5		
June	2.7	2.8	2.7		
July	2.8	2.9	2.9		
August	2.5	2.6	3		
September	2.8	2.7	2.8		
October	2.7	2.6	2.9		
November	2.6	2.8	2.6		
December	2.8	2.9	2.7		

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# WASTE DISPOSAL AT SCOP

Principal

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Kondapur(V), Onaticsar(M),
Medetal Utst. PNI-501305

### 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



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 were made using whatsApp groups 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 from mess and cafeteria is collected in

separate bins. Horticultural waste such as dried leaves, twigs and plant clippings are principal collected from all around the campus and used for bin composting. Dustbins have been Samskruti College of Phatmacy

Kondapur(V). a Charles ah(M) campus for waste segregation.

Medebet Dist. PIN-501301

### Wood Margerment

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section was the collected floor cases norms and large every marging by housekeeping soft or supportant everyons unit assembled at the waste variamental as compost parallely and assembled at the waste variamental as compost parallely and sent or take the collection of the case of the analysis and the case of the properties and the case of the properties and mover the contract of the case of the properties of the case of the case of the properties of the case of the properties of the case of the case of the properties of the case of the



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Lametrusi College of Phatmacy Kondapur(V), Obstat sat(N), encur us a sec segregation 1,1-1-1-1-17), FIN-M1301 Green Audit Report, SCOP-2019

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 took 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 waste water.

### 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 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

riskruti Coltens are used by students for scrap art in extra-curricular activities.

Modelal Dany Whet Pelevant information:

The institution conducts academic exhibition annually in the event of annual fest where the participants from other colleges are invited. As a part of annual fest and some other programs this, the students of the institution makes exhibits by using solid waste like papers, water

### Green Audit Report, SCOP-2019

bottles, iron pieces, rubbers and other e – waste like tube lights, bulbs, etc.

Also the 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(M). Medahat Dist. PIN-501301 "Ireca Audit Reports, aCOP-1819 relates, trop medes, aubbers and prior er waste like tulte helpts, bulbs, d

Also the tradition on heid various events tibe serap art, thee painting etc. on the little of the state of Francisco week culcinations

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# **TRANSPORTATION**

Principal

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Park - 1608 American St. Property

TRANSPORTATION

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Kondepun(V), Chathesar(M),
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College bus Parking Place at SCOP



First Aid Box in the College Bus

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



College buy Parking Place at SCOP



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Green Audit Report, SCOP-2019



Pedestrian friendly pathways at SCOP



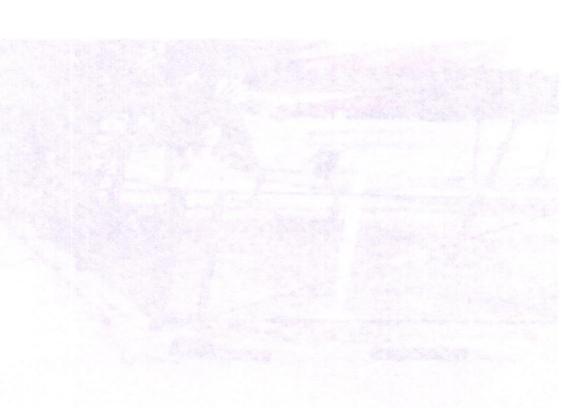
Pedestrian friendly pathways at SCOP

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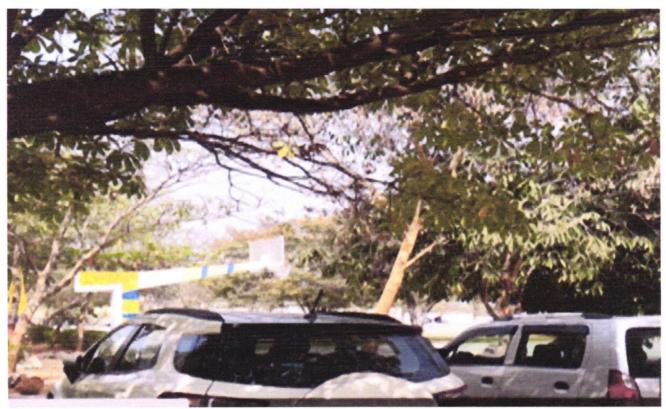
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Car Parking Place at SCOP



**Bicycle Parking at SCOP** 

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# ELECTRICAL ENERGY CONSUMPTION AT SCOP

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# ENERGIAL ENERGY ON SUMMERS OF STREET AND SUMPON AT SCORE

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Kondapur(V), Onethesor(M),
Nedthal Dist. Plk-501301

ELECTRICAL CONSUMPTION OF SCOP (2015-2019)						
S.NO	Month	2015	2016	2017	2018	2019
1	January	7620	8300	8,440	5,809	8,406
2	February	9660	10380	9,680	14,677	10,863
3	March	9820	12880	12,280	12,819	13,122
4	April	12060	14320	14,140	11,478	16,546
5	May	12840	11580	10,850	11,699	15,897
6	June	11560	10680	9,150	14,263	11,850
7	July	9600	11980	6,201	12,879	16,366
8	August	10820	10942	10,468	15,899	15,805
9	September	11540	10398	9,214	18,005	16,368
10	October	10900	8012	9,160	12,253	11,170
11	November	9320	9508	8,797	13,306	12,395
12	December	9100	8940	9,285	11,950	12,326
Total (Kwh)		124,840	127,920	117,665	155,037	161,11

Principal

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## SOLAR ENERGY GENERATION IN SCOP

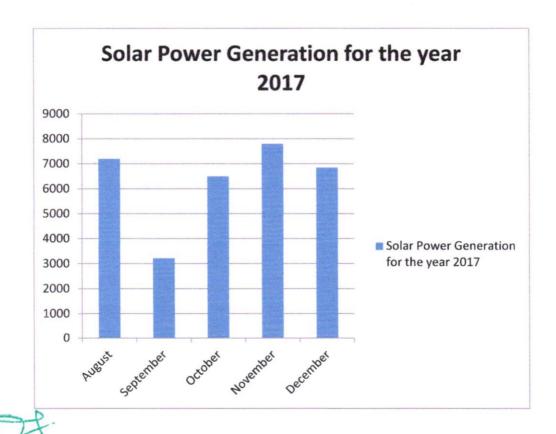
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Samskruti College of Pharma. Kondapur(V), Ghatkesar(M), Medchal Dist. PIN-501301

# SOLAR ENERGY GENERATION IN SCOP

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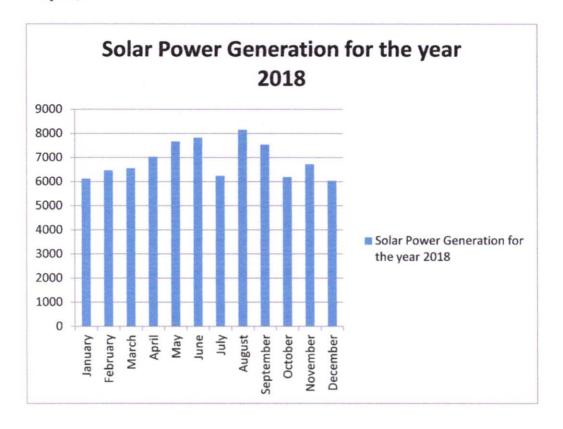
Solar Generation in units (KWh)					
S.NO	Month	2017	2018	2019	
1	January	Nil	6128	4248	
2	February	Nil	6472	5512	
3	March	Nil	6562	6636	
4	April	Nil	7035	8348	
5	May	Nil	7671	8018	
6	June	Nil	7837	6007	
7	July	Nil	6245	8004	
8	August	7200	8154	7118	
9	September	3220	7543	6352	
10	October	6500	6196	7255	
11	November	7800	6726	5214	
12	December	6843	6036	5573	
Total (Kwh)		31,563	82,605	78,285	

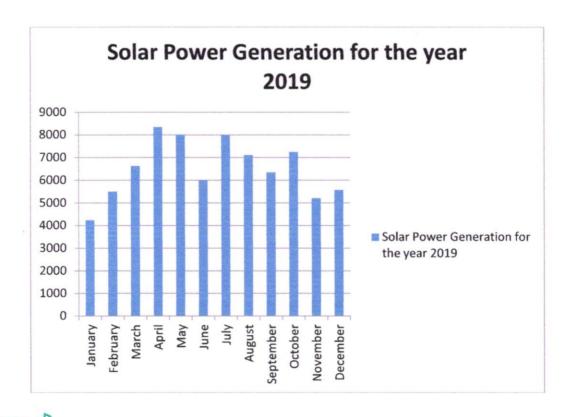


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## Solar Power Generation for the year

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# Solar Power Generation for the year 2018

### Solar Power Generation for the year 2019

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# ENERGY CONSUMPTION AND EXPORT

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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
То	tal (KWh)	31563	10539	21024	96641	117665

Principal

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Medicing Diet, PIN-501301

### 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
То	tal (KWh)	82605	16172	66433	88604	155037



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

### Heart Phys Experted Linux & Draganed Cats from TSSPHLL for The Year 1968

Principal

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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
Tot	al (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 inhabitance. 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 samskruti College of Pharmacy.

Kondapur(V) in Chatkesar(M) of the college and to preserve natural resources for current and future Medchal Dist. PIN-501301

Solar Plaint Exposured Units & Largories Lorent Lorent 1989 D.C.L. for The Year 2019

In odo tion to multing Environmental Studies a very vital stores in our syllabors. SOUS may gone a step funder by putting that the practice. Fire correction this solar institution in the particle of the control of the institution of the first that institution and resolution and was able to affect SOUS of its arrange. State to affect the printing towards at our control of the straight of the gradient and research or find that moving towards a correct resimble and excess contour and reducing the arrange in the first that it is a sure or that the straight and reducing the arrangement of the first moving towards at our containing and excess contour and reducing the arrangement for form.

The reaction planet perspendents year pages and existential discuss to the planet. Let go any other than the limit of the planet been showing great concerns any remain and any other perspending and environmental conservation. No wonder reprendents of this case result in that management dissuers, economic butteracks resulting in endangered incomment of the analysis of the analysis of the analysis of the analysis of the management and the admittal and the standard of the sold and the contract of the contract and find the presence into the contract and find the contract of the contract and find the contract and find the contract of the contract and the contract of the contract of the contract and the contract of the contr

#### Green Audit Report, SCOP - 2019

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.

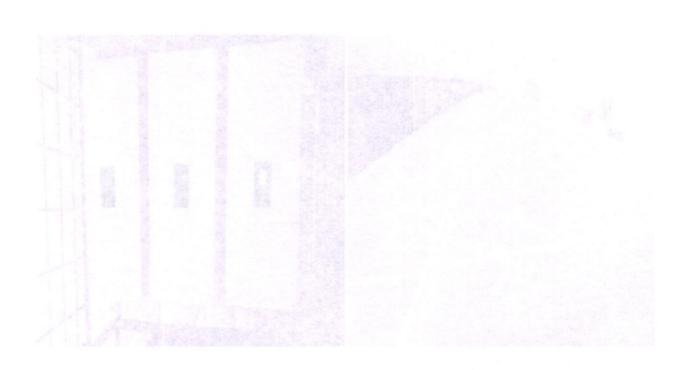
In future, the college is planning to be self-sufficient for its electrical power requirements by introducing energy efficient lamps, fans and solar streetlights for contributing to the sustainable development and environmental conservation.



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In future, the college is planning to be self-control for its electrical power requorement by introducing charge contributing to the sustainable development and coverenmental conservation.



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# EXPENDITURE ON GREEN INITIATIVES DURING THE LAST FIVE YEARS

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# EXPENDITURE ON GREEN INITIATIVES DURING THE

Principal
Sametros College of Phakmacy
Kondedun(V), Chalposan(M),
Nadduki Dist. PN-501301

### 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.)
2014 - 2015	94,737/-			94,737/-
2015 - 2016	49,465/-			49,465/-
2016 - 2017	46,750/-			46,750/-
2017 - 2018	1,40,400/-			1,40,400/-
2018 - 2019	1,44,200/-			1,44,200/-

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

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

		2017 - 2018

O bursamat Konder Medely

### Certificate of Registration

GMCSPL hereby certify that the organization

### SAMSKRUTI COLLEGE OF PHARMACY

Kondapur, Ghatkesar, Medchal Malkajgiri District, Telangana- 501301

Has established and applies a Energy Management System in accordance with

ISO 50001:2011

For the scope of activities:

Provision of quality pharmacy education focussing on community and patient health care and indulging in research and development for future growth of pharmacy profession.

181201-EM

Certificate Number

31 December 2018

Date of Initial Registration

31 December 2018

Date of Last Issue

30 December 2019

Date of Expiry







Certificate is Valid for 3 Years (31.12.2018 to 30.12.2021) From the Date of Initial Registration. Upon Successful Completion of Surveillance Audit New Certificate With an Extended Validity will be issued.

Signed on behalf of GMCSPL

Global Management Certification Services Pvt.Ltd.

#402, Plot No.410, Matrusri Nagar, Miyapur, Serilingampally, Hyderabad – 500 049, India.

www.mcsglobal.in, E.mail:info@mcsglobal.in

Accredited by: Quality Accreditation Council, Accreditation No.116102, www.qacin.org

This certificate is the property of GMCSPL, and shall be returned upon request by GMCSPL

The Registration does not assure the quality of yields under the firm's production.

Principal

of Pharmacu

F-50 ( Version 4.00, 28.08.201

Kondapur (V), Ghatkesar (M). Medchal Dist. PIN-5013

## Certificate of Registration

GMCSPL hereby certify that the organization

### SAMSKRUTI COLLEGE OF PHARMACY

Kondapur, Ghatkesar, Medchal Malkajgiri District, Telangana- 501301

Has established and applies an Environmental Management System in accordance with

ISO 14001:2015

For the scope of activities:

Provision of quality pharmacy education focussing on community and patient health care and indulging in research and development for future growth of pharmacy profession.

181202-E

Certificate Number

31 December 2018

Date of Initial Registration

31 December 2018

Date of Last Issue

30 December 2019

Date of Expiry







Certificate is Valid for 3 Years (31.12.2018 to 30.12.2021) From the Date of Initial Certification. Upon Successful Completion of Surveillance Audit New Certificate With an Extended Validity will be issued.

Signed on behalf of GMCSPL

Global Management Certification Services Pvt.Ltd.

#402, Plot No.410, Matrueri Nagar, Miyapur, Serilingampally, Hyderabad – 500 049, India.

www.mcsglobal.in, E.mail:info@mcsglobal.in

Accredited by: Quality Accreditation Council, Accreditation No.i16102, www.qacin.org

This certificate is the property of GMCSPL, and shall be returned upon request by GMCSPL

F-50 ( Version 4.00, 28.08.

Principal

Sams

Kondapur (V), Ghatkesar (ivi). Medchal Dist. PIN-5013c :

# Certificate of Registration

GMCSPL hereby certify that the organization

### SAMSKRUTI COLLEGE OF PHARMACY

Kondapur, Ghatkesar, Medchal Malkajgiri District, Telangana-501301

Has established and applies a Quality Management System in accordance with

ISO 9001:2015

For the scope of activities:

Provision of quality pharmacy education focussing on community and patient health care and indulging in research and development for future growth of pharmacy profession.

181207-Q

Certificate Number

31 December 2018 Date of Initial Registration 31 December 2018

Date of Last Issue

30 December 2019 Date of Expiry







Certificate is Valid for 3 Years (31.12.2018 to 30.12.2021) From the Date of Initial Registration. Upon Successful Completion of Surveillance Audit New Certificate With an Extended Validity will be issued.

### Global Management Certification Services Pvt.Ltd.

#402, Plot No.410, Matrusri Nagar, Miyapur, Serilingampolly, Hyderobad – 500 049, India.
www.mcsglobal.in, E.mail:info@mcsglobal.in
Accredited by: Quality Accreditation Council, Accreditation No.116102, www.qacin.org
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The Registration does not assure the quality of yields under the firm's production.

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Principal

Samskruti College of Pharm. Kondapur (V), Ghatkesar Medchal Dist. PIN-501\*