

# GREEN AUDIT REPORT

2022-2023



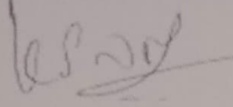

**Samskruti college of pharmacy:: Ghatkesar**  
**Kondapur, Ghatkesar, Telangana**

**Accredited by NAAC**

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**Samskruti College of Pharmacy**  
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Medchal Dist. PIN-5

## Green Audit Assessment Team

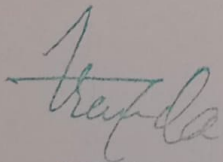
**K.Siva Naga Prasad, Lead Auditor  
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**K.V.Murthy, Lead Auditor EMS/EnMS**


**Ch.RamaRao, Lead Auditor EMS/EnMS**

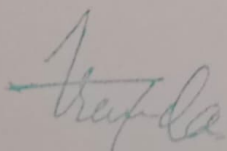


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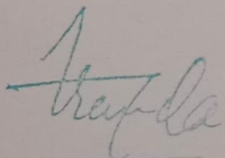
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# INTRODUCTION



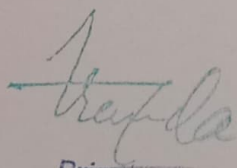
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## INTRODUCTION

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.

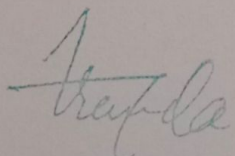
The rapid urbanization and economic development at local, regional and global level has led to several environmental and ecological crises. On this background it becomes essential to adopt the system of the Green Campus for the institutes which will lead for sustainable development and at the same time reduce a sizable amount of atmospheric CO<sub>2</sub> 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



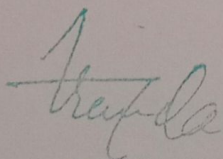
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## OBJECTIVES

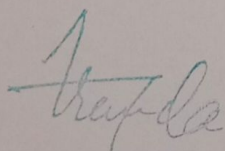
In recent time, the Green Audit of an institution has been becoming a paramount importance for self- assessment of the institution which reflects the role of the institution in mitigating the present environmental problems. The college has been putting efforts to keep our environment clean since its 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



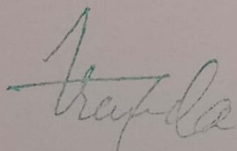
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## METHODOLOGY

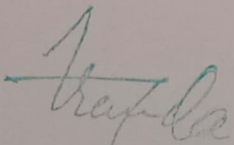
The purpose of the green audit of SCOP is to ensure that the practices followed in the campus are in accordance with the Green Policy of the country. The methodology includes: collection of data, physical inspection of the campus, observation and review of the documentation and data analysis.



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# ABOUT THE COLLEGE



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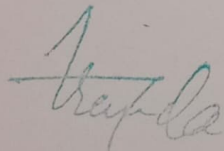
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## ABOUT THE COLLEGE

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, about 15 Km. south of Hyderabad on Hyderabad-Warangal highway and rail route. The college offers B.Pharmacy, Pharm.D, Pharm.D(PB) and M.Pharmacy in six specializations of Pharmacy- Pharmaceutics, Pharmaceutical Analysis, Pharmacology, Pharmaceutical Chemistry, Pharmacy Practice and Regulatory Affairs.

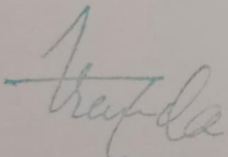
### Programmes offered by the institution

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



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# VISION AND MISSION STATEMENTS



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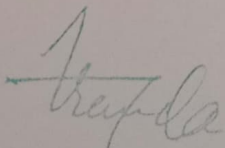
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## Vision

- 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

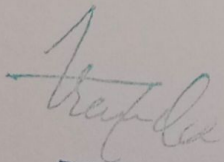
- To train and develop students into professional pharmacists so as to fulfill the industrial and community needs. To shoulder the responsibility of reducing the suffering mankind by providing pharmaceutical care.
- To maintain high values and standards so as to make students technologically competent 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.

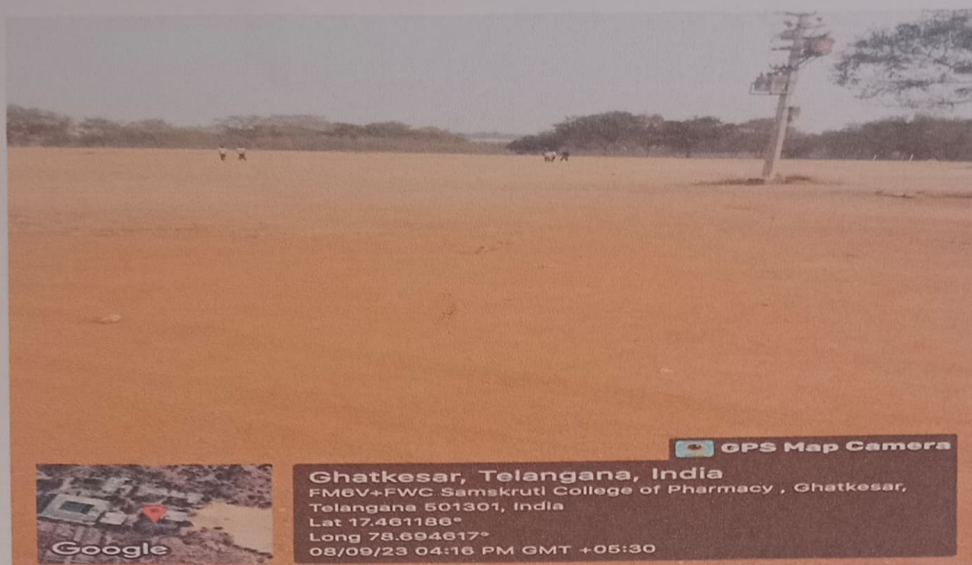


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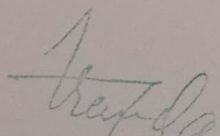
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The solid waste will be collected from all the sources such as from Kitchen, bathrooms inside the canteen which includes papers, plastics, foods, metals, glass etc. and it will be segregated from source of generation. The administrative supervisor 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.

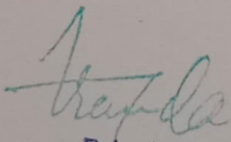
The college was located in 5.2 acres of land area. The three major pillars i.e. zero environmental foot print, positive impact on occupant health and performance and 100% graduates demonstrating environmental literacy. The goal is to reduce CO<sub>2</sub>emission, energy and water use, while creating 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**

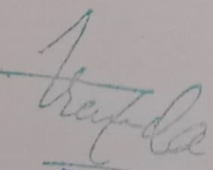
Three types of data that are GPS points, field survey data and Google earth data for geo referencing have been used in this study.

### **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.

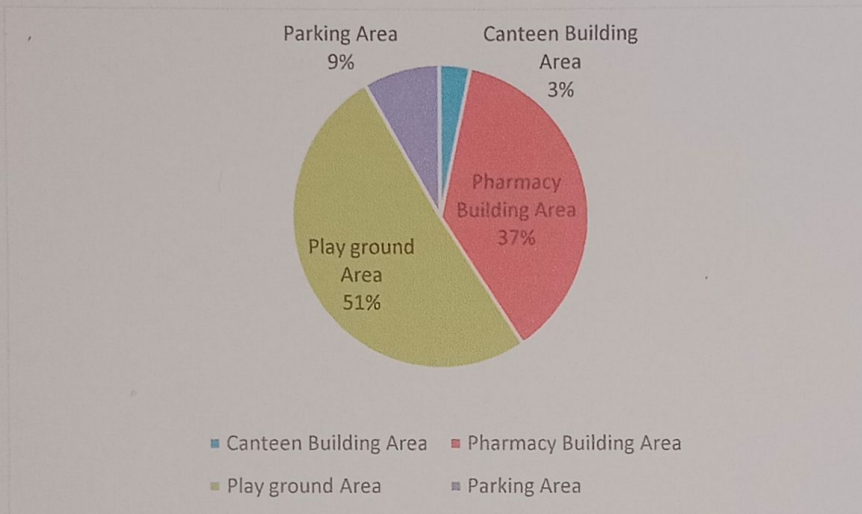
Therefore, attempt has been made in this study to map land use for SCOP with a view to detect the land consumption in the built-up land area using both remote sensing and GIS techniques.

  
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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 m<sup>2</sup> ) consists of the following regions as stated below for land consumption in built-up area for Samskruti College of Pharmacy.

**FINDINGS**

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

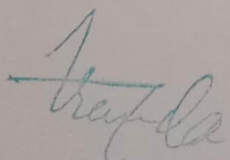
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## Area occupied by various buildings of SCOP

## Instructional Area Details

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

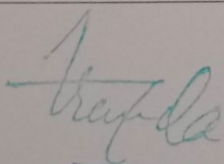


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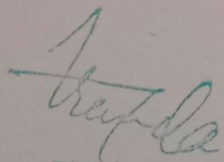
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## Lab Area Details

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

  
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# GEOGRAPHICAL LOCATION WITH CAMPUS MAP IN SCALE

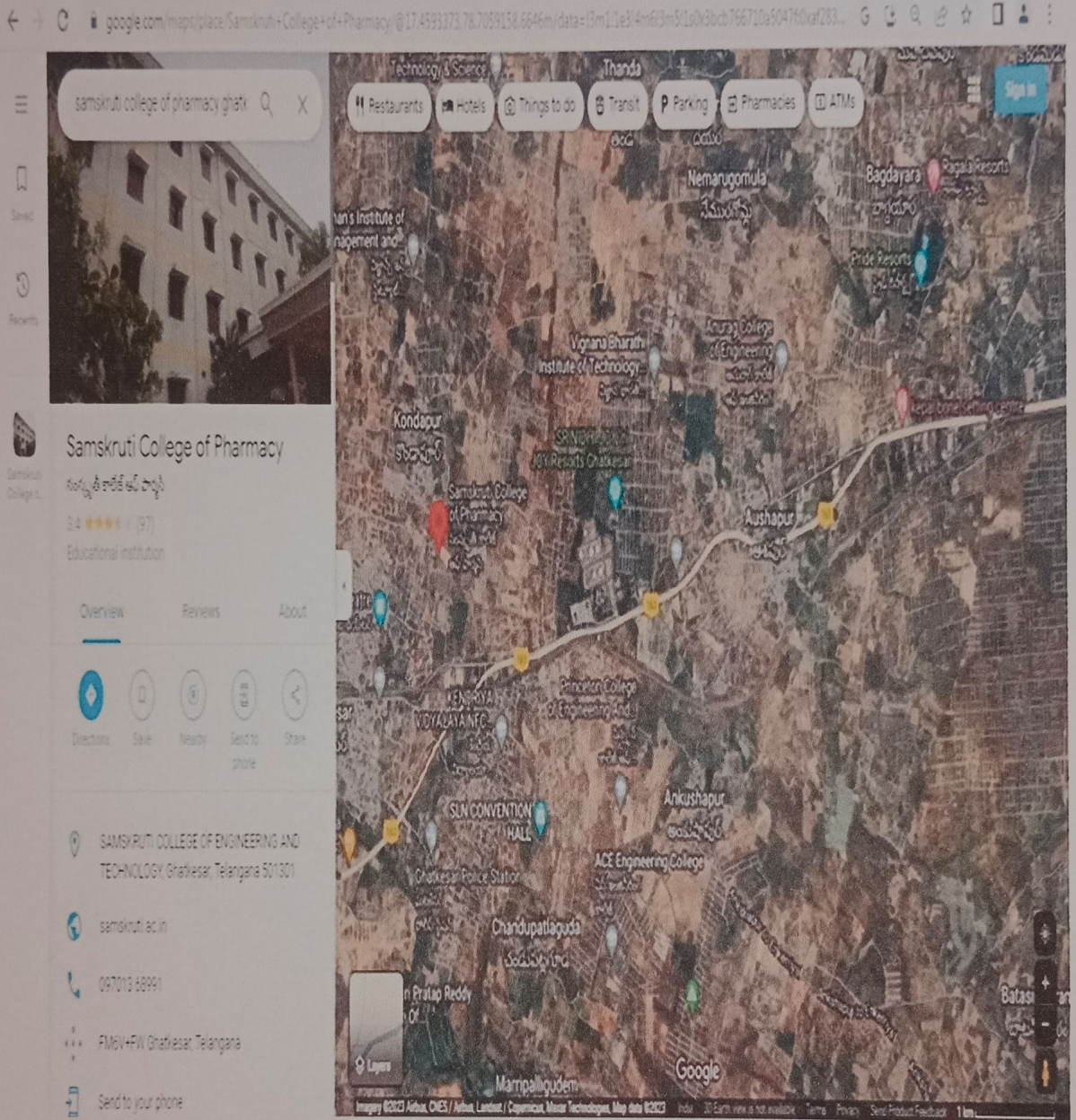


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**GEOGRAPHICAL LOCATION WITH CAMPUS MAP IN SCALE**

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

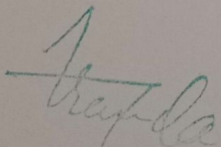


Google Map of College Campus and Location map screen shot

*[Handwritten Signature]*  
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# TREE DIVERSITY OF SCOP



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### TREE DIVERSITY OF SCOP, Ghatkesar.

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

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

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

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

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

Samskruti Campus was done by the students.

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Green Audit Report, SCOP-2023

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	Milmosa 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
31	Pala chettu	Alstonias cholaris	04
32	Sapota	Manilkara zapota	04
33	Drumstick	Moringa oleifera	02

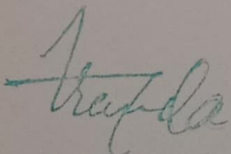
**Green Audit Report, SCOP-2023**

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 pulcherrima	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	Buchanania lanzan	01
45	Vampadan climbing shrub	Ventilago madeaspatana	03
46	Lebeck tree	Langil	05
47	Indian cork tree	Millingtonia hortensis linn.F	07
48	Veld grape	Cissus quadrangularis	02
49	Cheese wood	Pittosporum tobira	06
50	Paper flower	Bougainvillea glabra	04
51	nilgiri	Eucalyptus globulus	05
52	Crown of thorns	Euphorbia millivar	15
53	Papaya	Carica papaya	02
54	Fire cracker flower	Crossandra fundibuliformis	02
55	Chamanthi	crysanthemum	02
56	Ixora coccinia	Rubiaceae	02
57	Jasminum cuspidatum	Oleaceae	03
58	Lawsonia inermis	Lythraceae	03
59	Mangifera indica	Anacardiaceae	03
60	Screw pine	Pandanus veitchi	04
61	Lancepod	Lonchocarpus costaricensis	03
62	Earpod tree	Enterolobium cyclocarpum	20
63	Nontry cypress	Cypripedium and macrocarpa	06
64	Weeping fig	Ficus bengalensis	07
65	Coat buttons	Tridax procumbens	06
66	Indian pulai	Alstonia scholaris	01
67	Trumpet tree	Tabebuia rosea	03
68	Brush berry	Syzygium australe	02

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

**Green Audit Report, SCOP-2023**

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



Principal

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

Plantation Photo



Principal

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

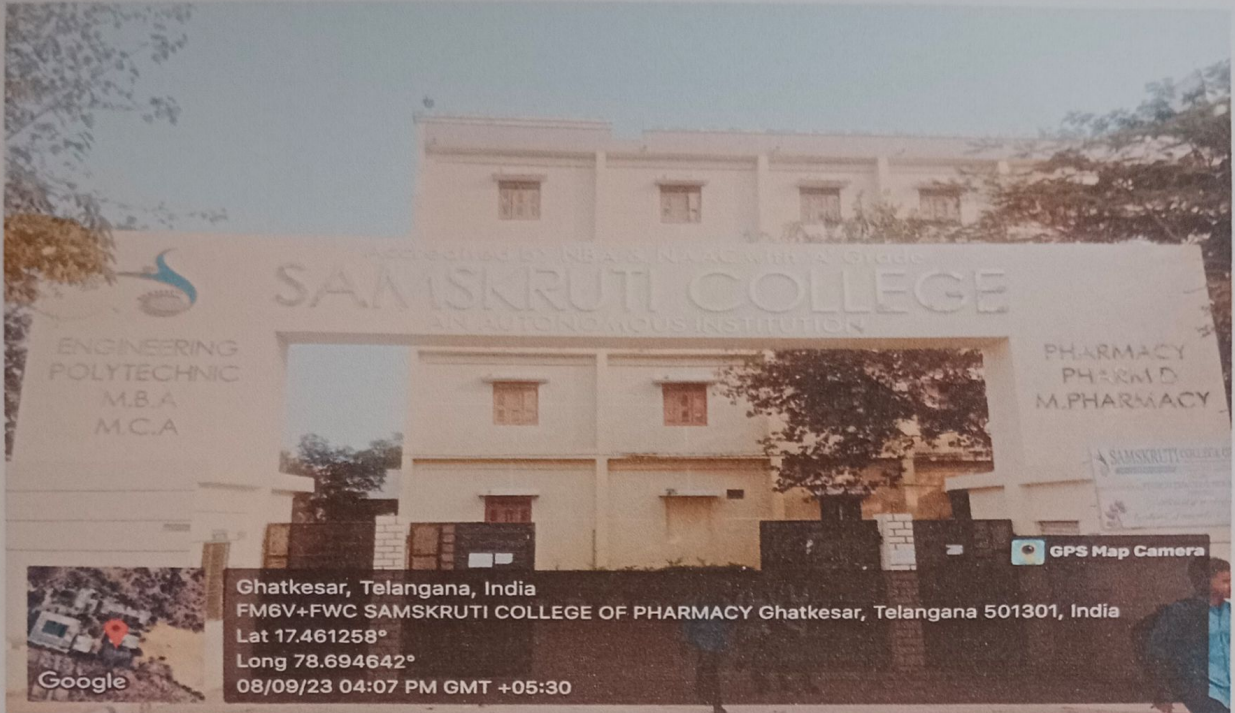
Green Audit Report, SCOP-2023



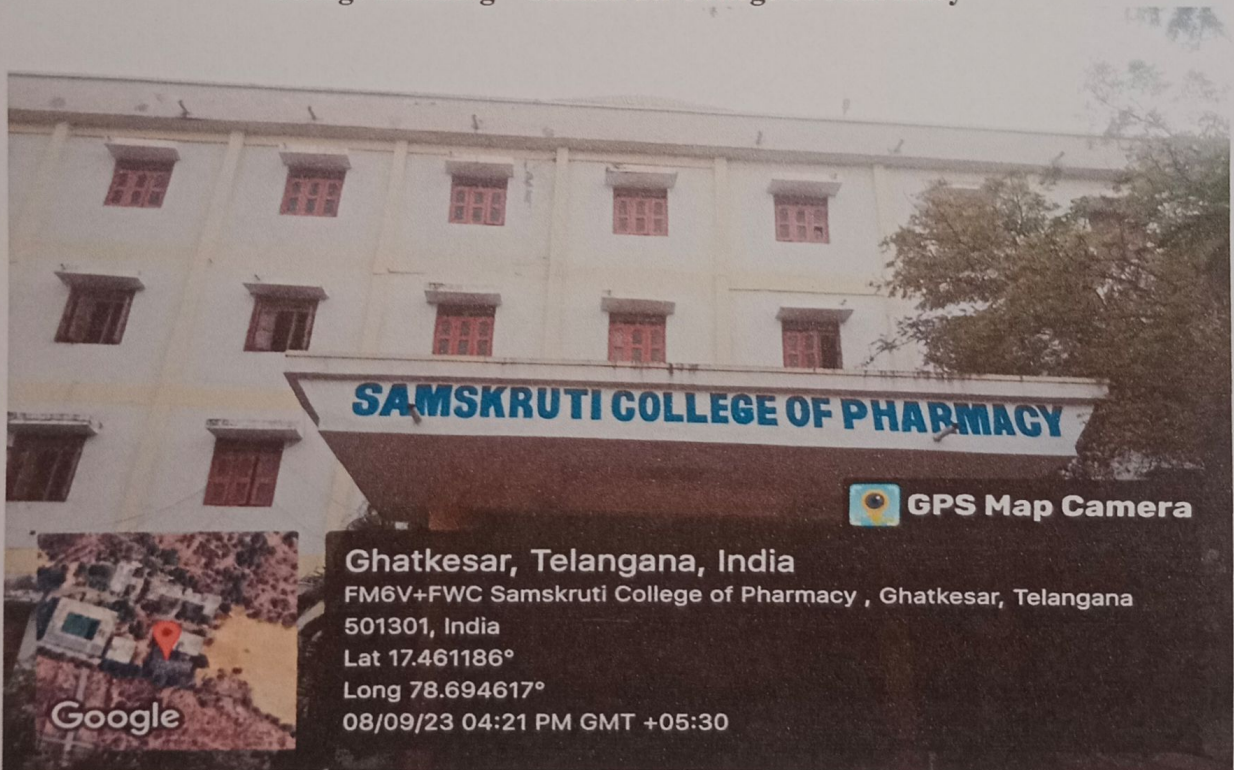
*Handwritten signature*  
Principal

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

Main Entrance – Samskruti Group of Institutions



College Building – Samskruti College of Pharmacy



Principal

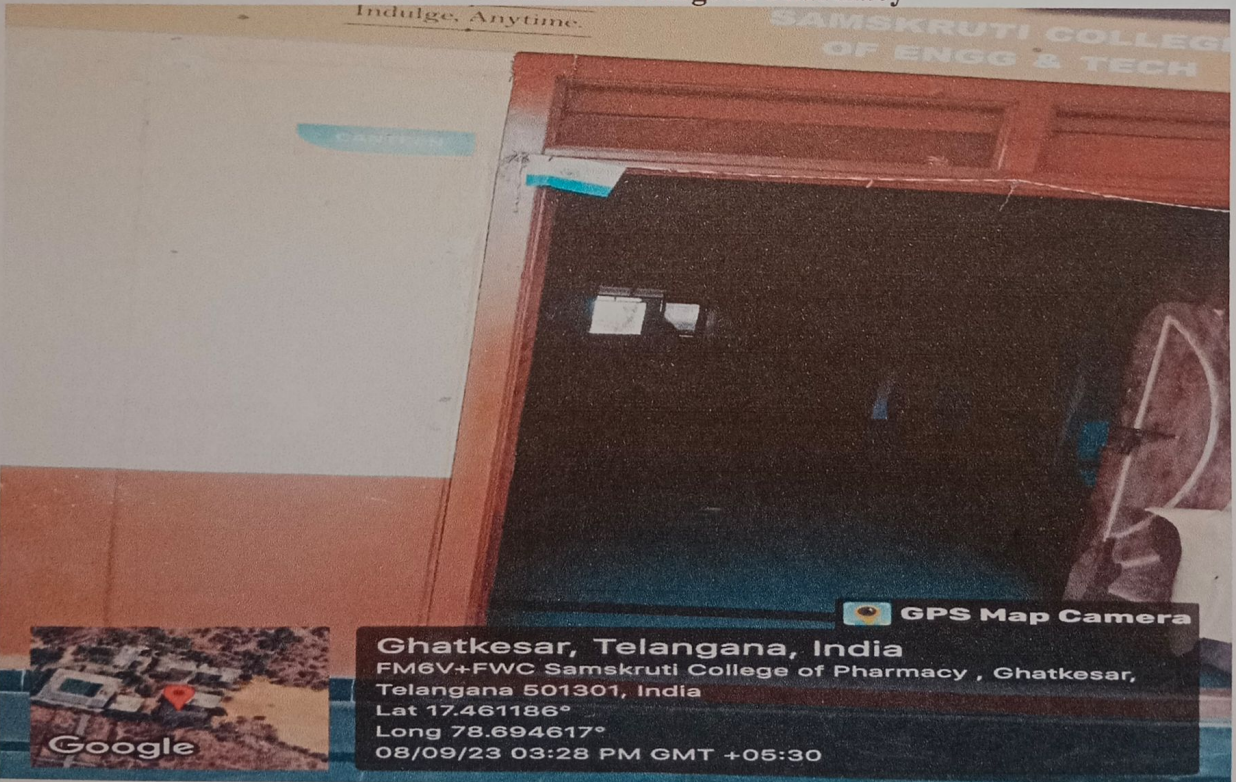
Samskruti College of Pharmacy  
Kondapur (V), Ghatkesar (M),  
Medchal Dist. P.N.T.

### Cafeteria – Samskruti College of Pharmacy



Ghatkesar, Telangana, India  
FM6V+FWC SAMSKRUTI COLLEGE OF PHARMACY Ghatkesar, Telangana 501301, India  
Lat 17.461258°  
Long 78.694642°  
08/09/23 03:28 PM GMT +05:30

### Canteen – Samskruti College of Pharmacy



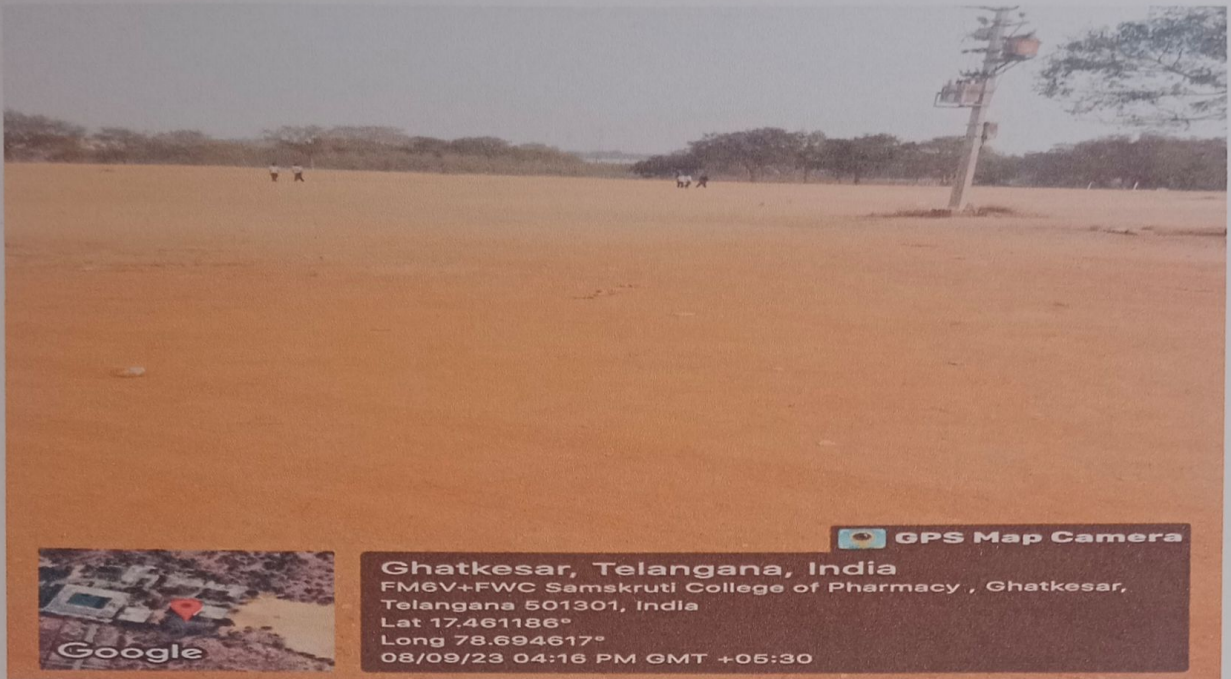
Ghatkesar, Telangana, India  
FM6V+FWC Samskruti College of Pharmacy , Ghatkesar,  
Telangana 501301, India  
Lat 17.461186°  
Long 78.694617°  
08/09/23 03:28 PM GMT +05:30

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Principal

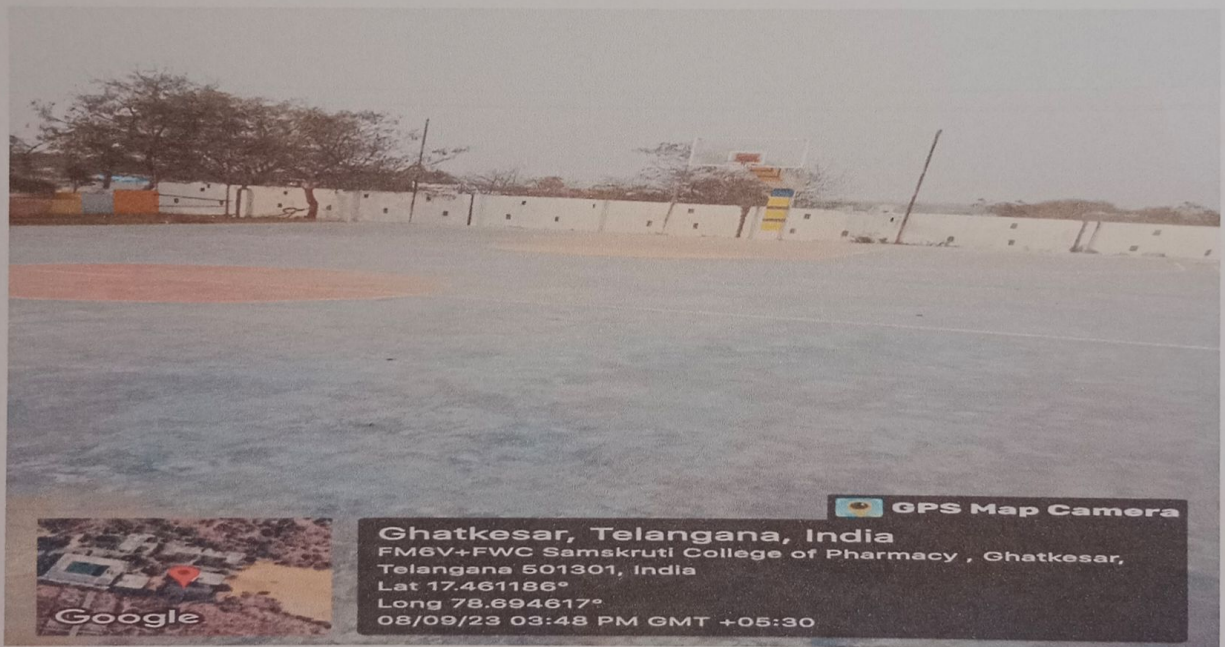
Samskruti College of Pharmacy  
Kondapur (V), Ghatkesar (M),  
Medchal Dist. PIN-501301



### Play Ground – Samskruti College of Pharmacy



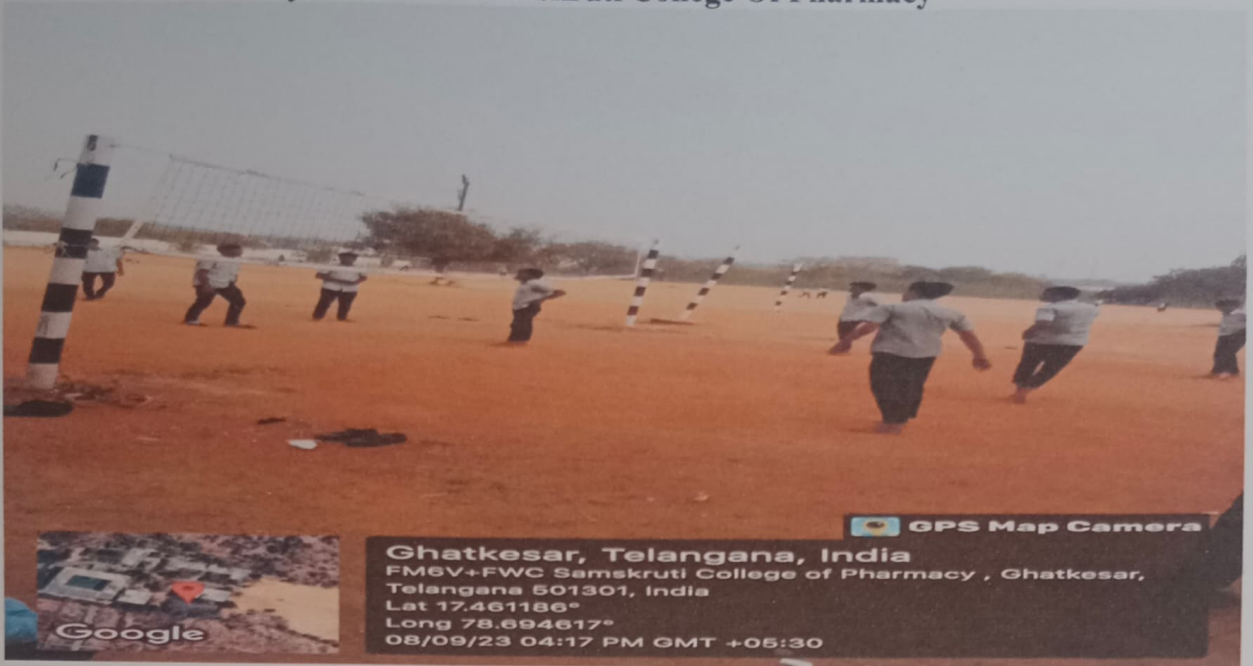
### Basket ball court – Samskruti College Of Pharmacy



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Principal

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

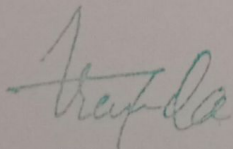
Volleyball court – Samskruti College Of Pharmacy



Principal

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

# FAUNAL DIVERSITY IN SCOP



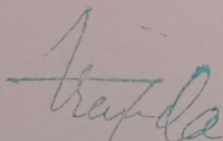
*Principal*

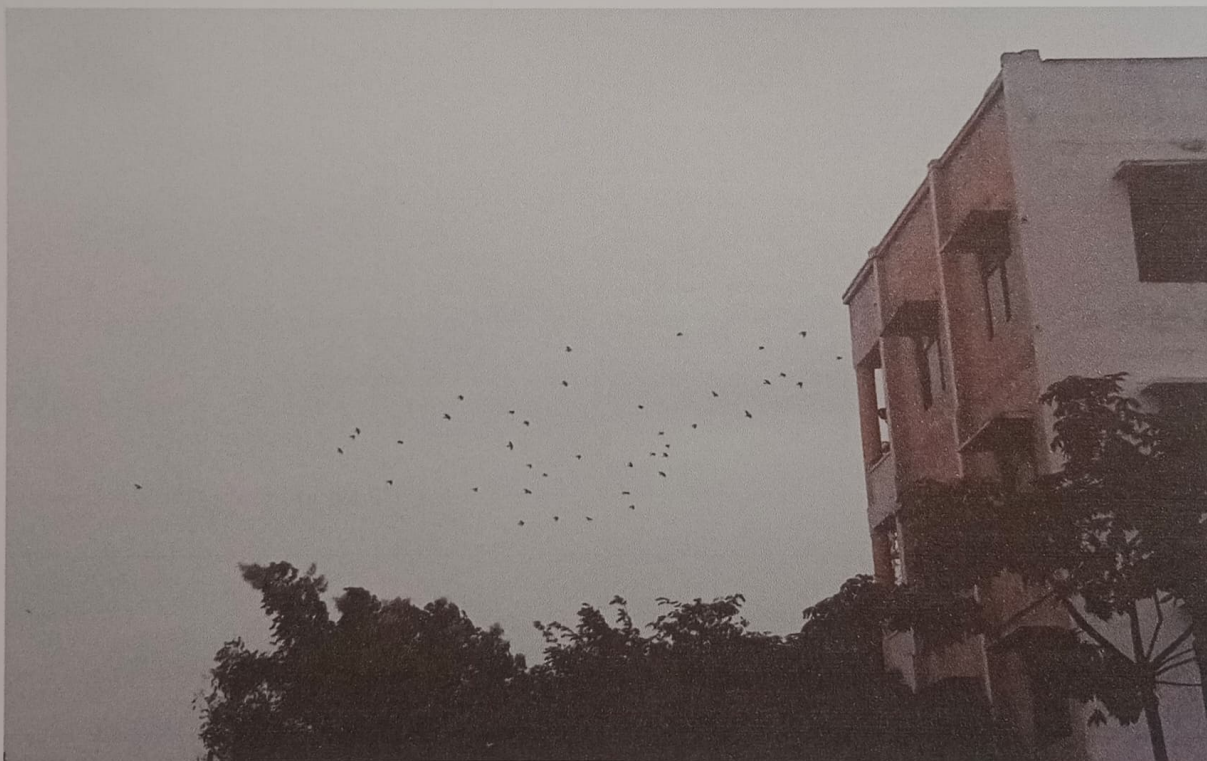
Samskruti College of Pharmacy  
Kondapur (V), Ghatkesar (M),  
Medchal Dist. PIN-501301

**FAUNAL DIVERSITY IN SCOP**

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

S.No	CommonName	ScientificName
1.	Common Myna	Acridotheres Tristis
2.	House Sparrow	Passer Domesticus
3.	House Crow	Corvus Splendens
4.	Cuckoo	Cuculidae
5.	Snake	Naja Naja
6.	Yellow Wasp	Ropalidia Marginata
7.	Butter Fly	Danaus Genutia
8.	Honey bees	Apis
9.	Common Wood shrike	Tephrodornis Pondicerianus
10.	Pied Myna	Gracupica Contra
11.	Red-Vented Bulbul	Pycnonotus Cafer
12.	Skylark	Aluda Gulgula
13.	Garden Tiger Moth	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

  
Principal



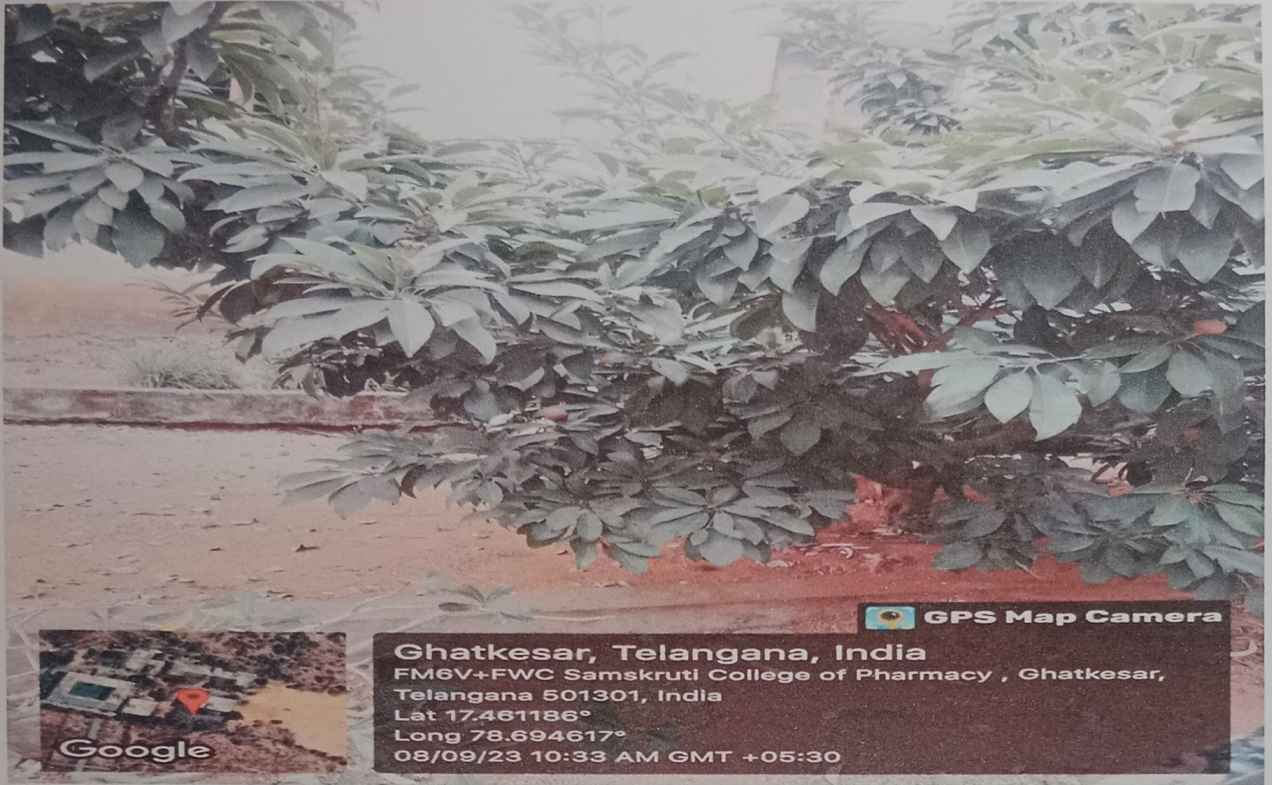
*Signature*  
Principal

Trees and Plants- Samskruti College Of Pharmacy



*[Handwritten Signature]*  
Principal

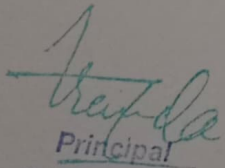
Samskruti College of Pharmacy  
Kondapur (V), Ghatkesar (M),  
Medchal Dist. PIN-501301



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Principal

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

# FLORAL DIVERSITY OF SCOP



Principal

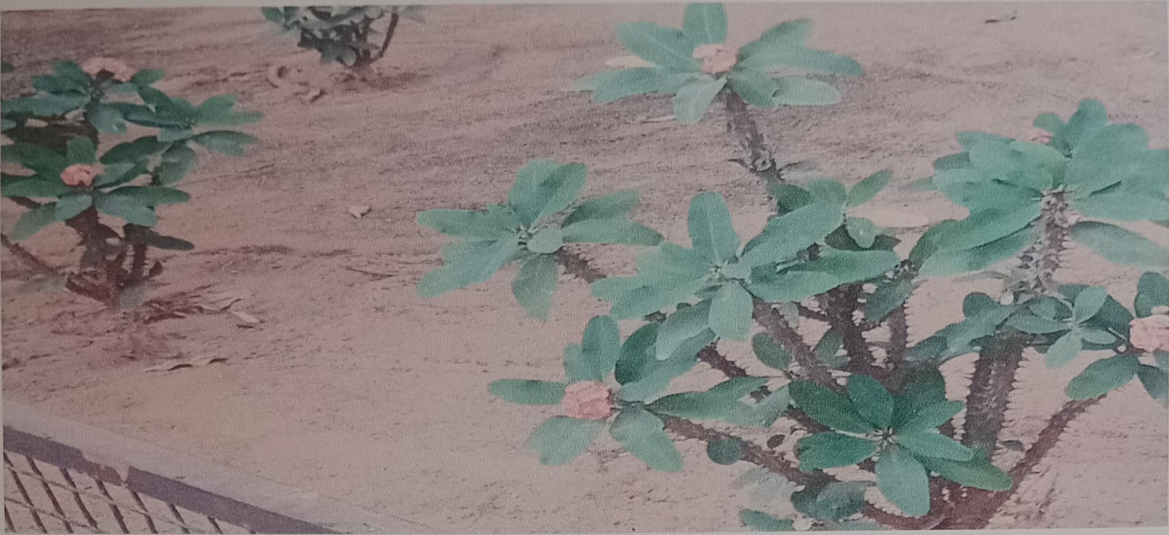
Samskruti College of Pharmacy

Kondapur (V), Ghatkesar

Medchal Dist. PIN-501

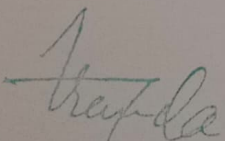


FLORAL DIVERSITY IN SCOP



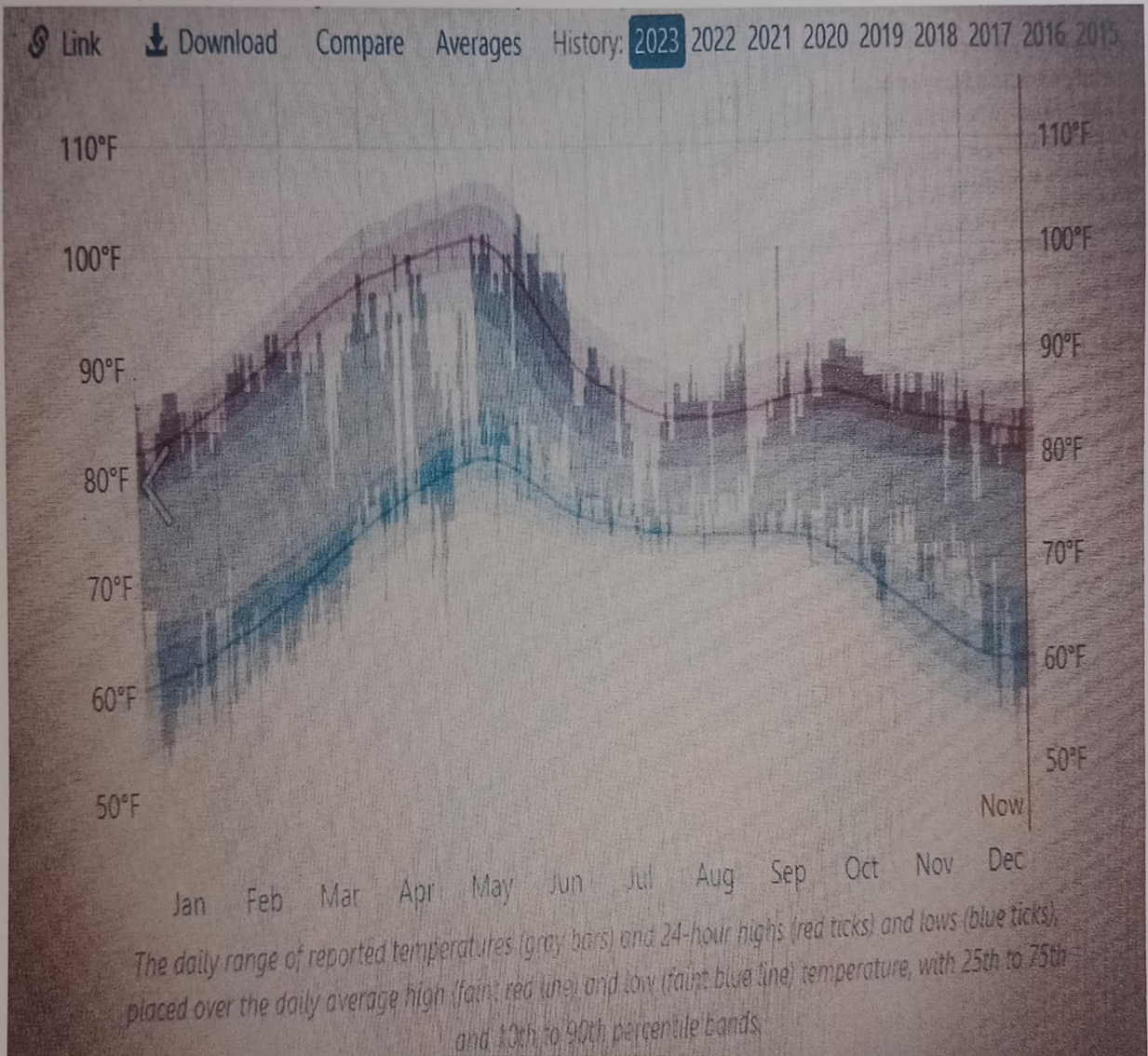
*Handwritten signature*  
Principal

# WEATHER DATA OF SCOP



*Principal*

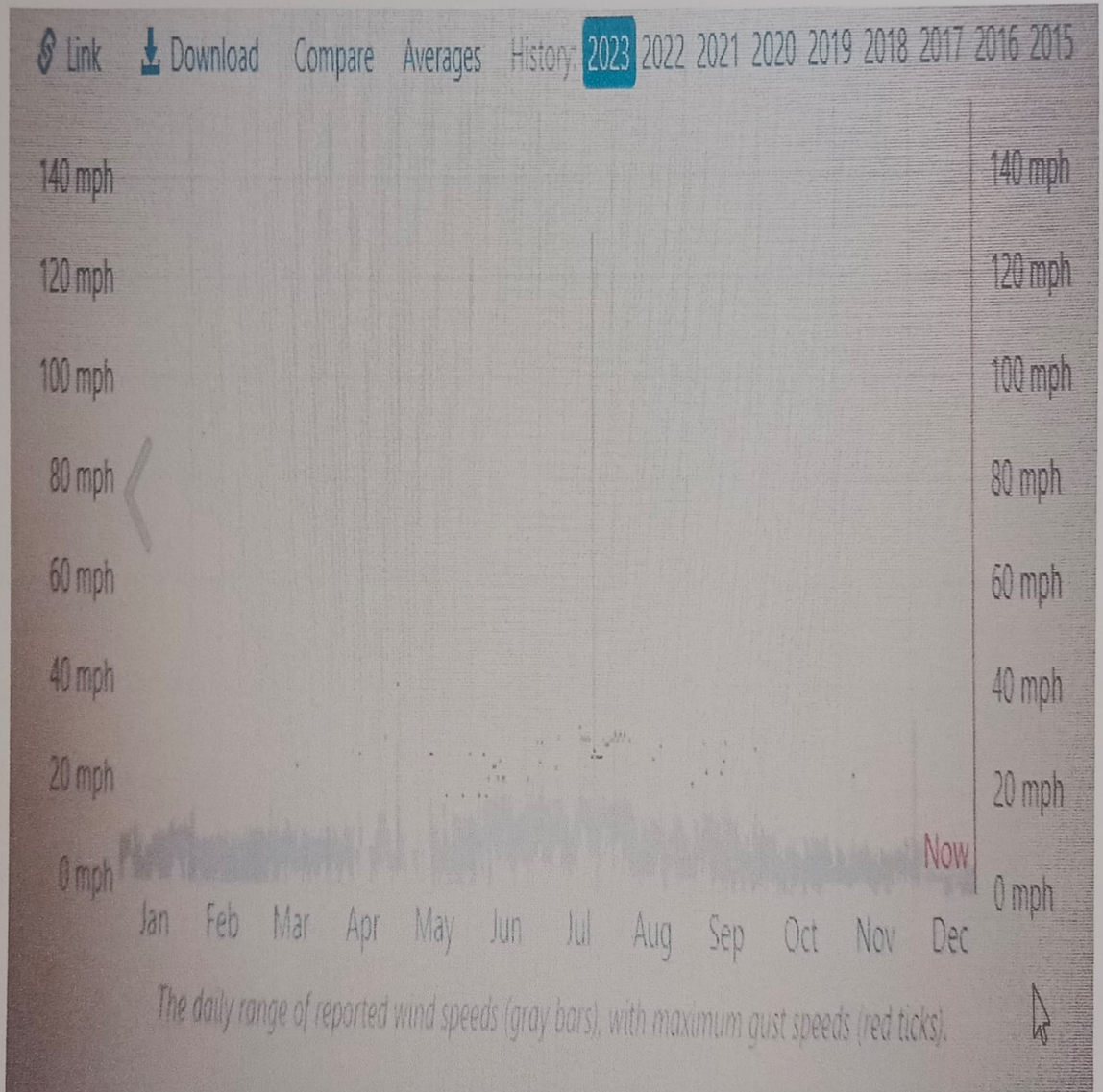
Weather Data – 2023



**Temperature at Samskruti College of Pharmacy, Kondapur, Ghatkesar.**

*[Signature]*  
Principal

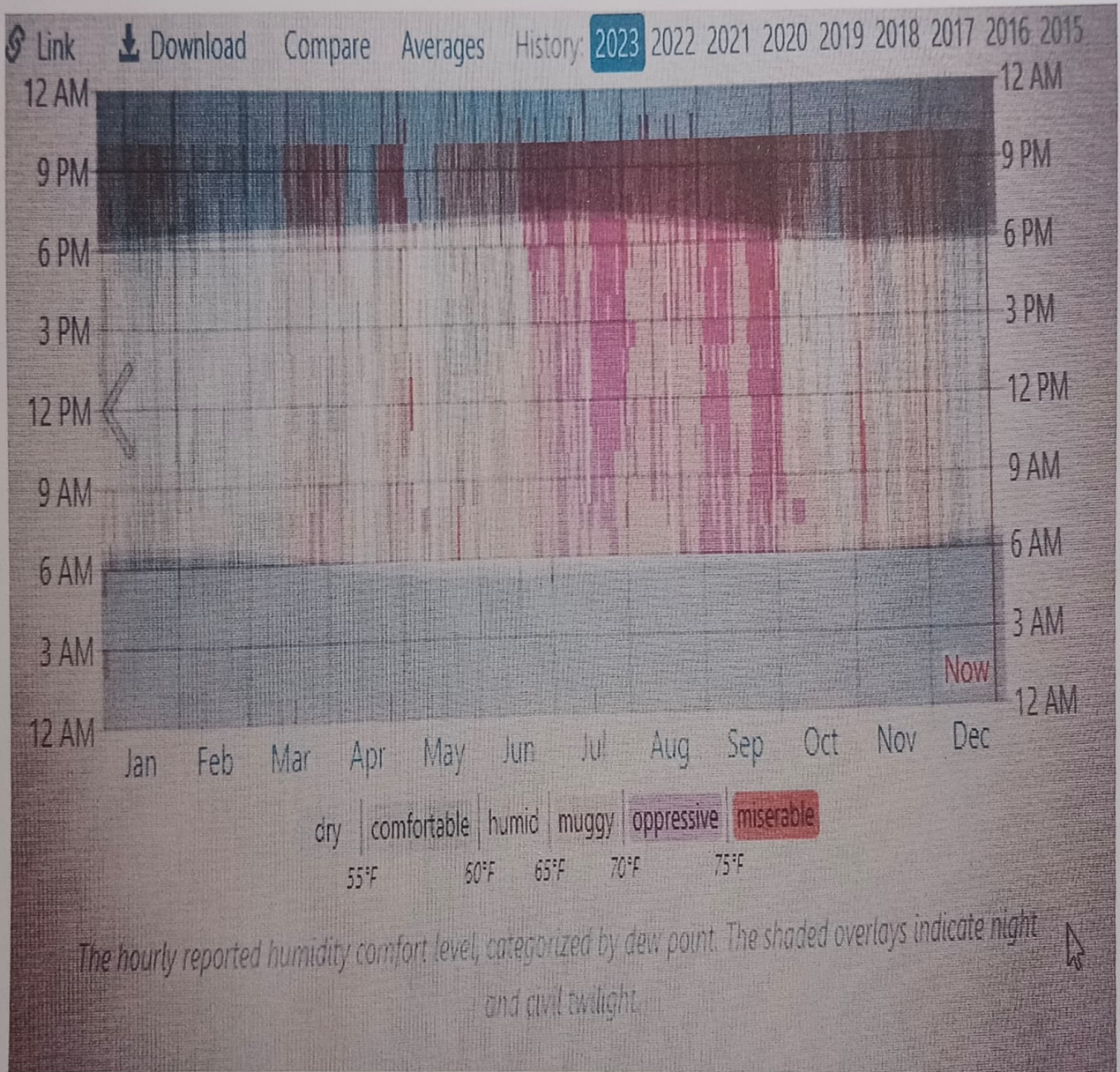
Samskruti College of Pharmacy  
Kondapur (V), Ghatkesar (M),  
Medchal Dist. PIN-501301



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

*[Handwritten Signature]*  
Principal

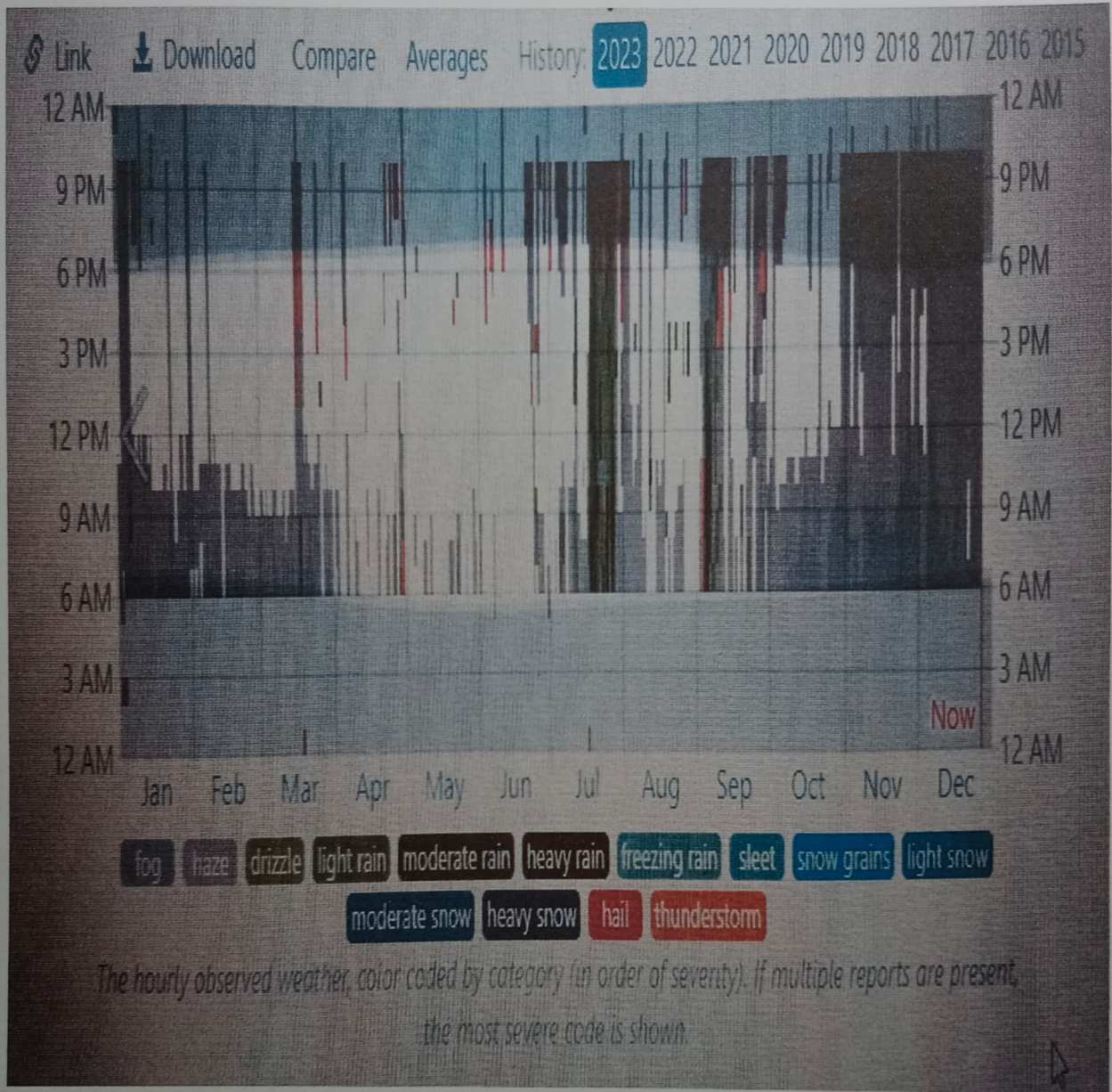
**Samskruti College of Pharmacy**  
Kondapur (V), Ghatkesar (M).  
Medchal Dist. PIN-501221



**Humidity at Samskruti College of Pharmacy, Kondapur, Ghatkesar.**

*[Signature]*  
Principal

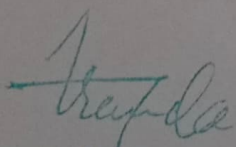
Samskruti College of Pharmacy  
Kondapur (V), Ghatkesar T  
Medchal Dist. PIN-501001



**Rainfall at Samskruti College of Pharmacy, Kondapur, Ghatkesar.**

*[Handwritten Signature]*  
Principal

# AIR QUALITY OF SCOP



Principal

Sanskriti College of Pharmacy  
Kondapur (V), Ghatkesar (T)  
Medchal Dist. PIN-501201


Green Audit Report, SCOP-2023

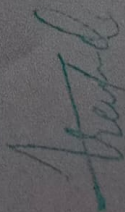
SAMSKRUTI COLLEGE OF PHARMACY KONDAPUR(V), GHATKESAR.  
AIR QUALITY ANALYSIS DETAILS AT SCOP CAMPUS

Date of Report	09.25.2023
Sample collected by	B.Pharm Final Year Students
Sample collection Date	09.20.2023
Sample Description/Code	AIR QUALITY ANALYSIS

S.NO	NAME OF THE PARAMETER	TEST RESULTS				NAAQS LIMITS	TEST METHOD
		COLLEGE MAIN ENTRANCE	ADMIN BUILDING	CANTEEN AREA	SPORTS GROUND		
1	Particulate Matter (PM10)	61.8	52.9	52	75	100	IS 5182: Part- 23 (2012)
2	Particulate Matter (PM2.5)	20.1	15.3	15.5	25	60	CPCB Manual (NAAQMS/36/2012-13) Gravimetric method (Cyclonic Flow technique)
3	Sulphur dioxide as SO <sub>2</sub> (µg/m <sup>3</sup> )	0	0	0	0	80	IS 5182: Part- 2 (2012)
4	Nitrogen dioxide as NO <sub>x</sub> (µg/m <sup>3</sup> )	0	0	0	0	80	IS 5182: Part- 6 (2012)

S. Srikrishna  
Checked by  
Shiva Srikrishna, Asst. Prof.

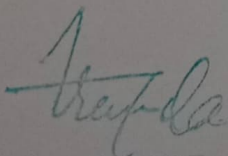
  
Authorized Signatory  
Dr. Y. Shirisha, Prof.



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



# NOISE LEVEL IN THE SURROUNDING OF SCOP



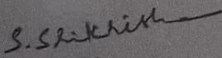
*Principal*

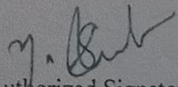
Samskruti College of Pharmacy  
Kondapur (V), Ghatkesar (M).  
Medchal Dist. PIN-501201

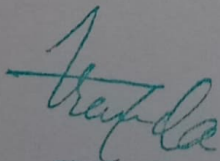
SAMSKRUTI COLLEGE OF PHARMACY KONDAPUR (V), GHATKESAR.  
NOISE LEVEL MEASUREMENT DETAILS AT SCOP CAMPUS

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 (DURATION IN SECS)	MINIMUM (DBA)	MAXIMUM (DBA)	AVERAGE (DBA)
1	College main out gate	60	41.5	73.5	57.5
2	Parking area	60	43	60.3	51.65
3	Administrative block	60	40.3	71.4	55.85
4	Canteen	60	48.7	66.9	56.8
5	Main block	60	48	74	62
6	Ladies hostel	60	46	68	57
7	Sports ground	60	50.5	75.6	63.05
8	College main in gate	60	52	72	62

  
Checked by  
Shiva Srikrishna, Asst. Prof.

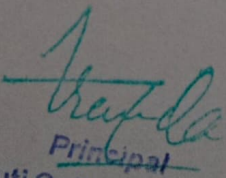
  
Authorized Signatory  
Dr. Y. Shirisha, Prof.



Principal

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

# WATER ANALYSIS REPORT OF SCOP



*Principal*

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

Green Audit Report, SCOP-2023

Samskruti College of Pharmacy, Kondapur (V), Ghatkesar.					
Water Consumption Details at SCOP Campus					
Month	Consumption Details for 2018-19 (Liters in Lakhs)	Consumption Details for 2019-20 (Liters in Lakhs)	Consumption 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
Jun	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

Samskruti College of Pharmacy, Kondapur (V), Ghatkesar.					
Water Collection Details at SCOP Campus					
Month	Collection Details for 2018-19 (Liters in Lakhs)	Collection Details for 2019-20 (Liters in Lakhs)	Collection Details for 2020-21 (Liters in Lakhs)	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. Sankar*  
 Directed by  
 Shiva Srikrishna, Asst. prof.

*M. B. B.*  
 Authorized Signatory  
 Dr. Y. Shirisha, prof.

*Principals*  
 Principal

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

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 limits	
					Acceptable	Permissible
1	pH		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	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			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 23 <sup>RD</sup> 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> <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	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. Srikrishna

Directed by  
Shiva Srikrishna, Asst. prof

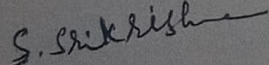
Principal

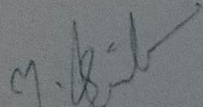
Y. Shirisha  
Authorized Signatory  
Dr. Y. Shirisha, prof.

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 + B		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

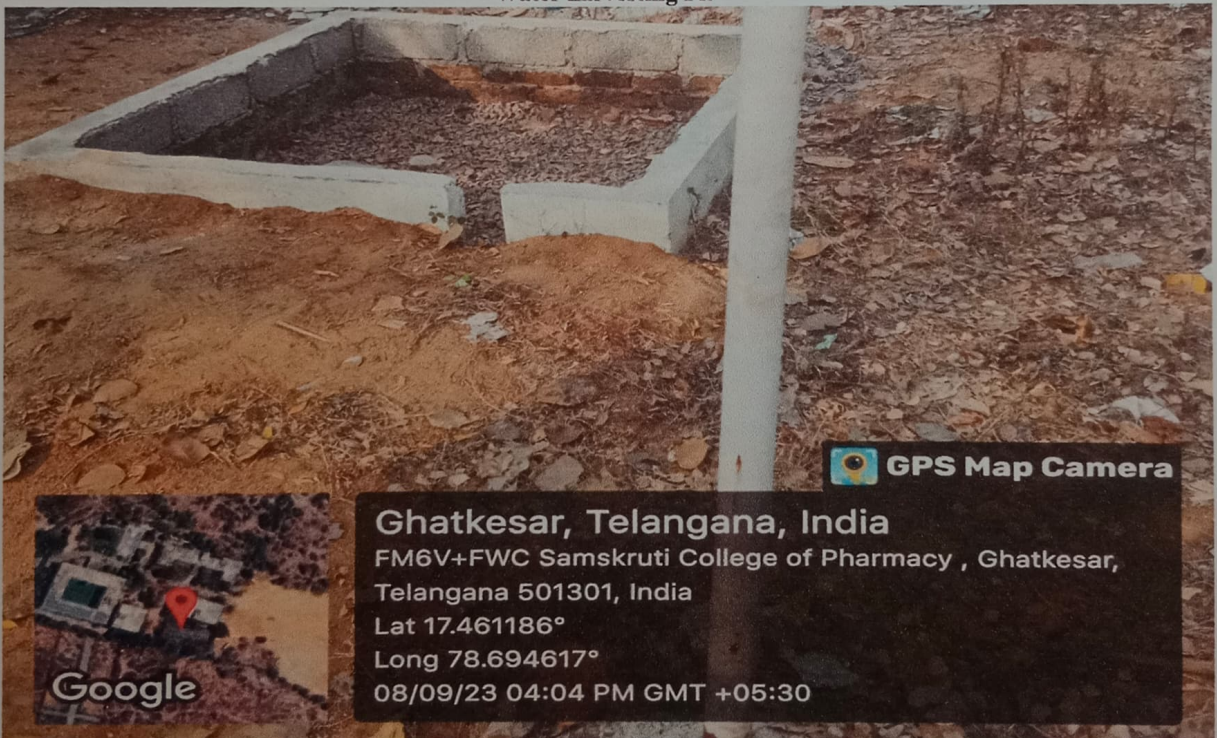
  
Checked by  
Shiva Sri Krishna, Asst. Prof.

  
Authorised Signatory  
Dr. Y. Shrishya, Prof.

Common Water tank



Water harvesting Pit



**Water Conservation facilities available in the Institution**

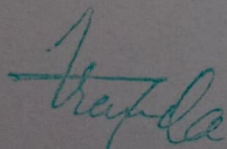
*Handwritten signature*  
Principal

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

## 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)	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

  
Principal

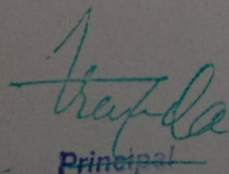
Samskruti College of Pharmacy  
Kondapur (V), Ghatkesar  
Medchal Dist. PIN



## SANSKRUTI COLLEGE OF PHARMACY, KONDAPUR, GHATKESAR.

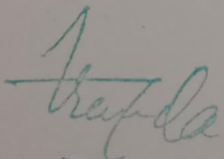
## Water Collection Details at SCOP Campus

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)	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



Principal

# WASTE DISPOSAL AT SCOP



*Principal*

**Samskruti College of Pharmacy**  
Kondapur (V), Ghatkesar  
Medicine - PIN: 501 201

## Waste Management

### *Solid waste management:*

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



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

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

Horticultural wastes such as dried leaves, twigs, and plant clippings are collected from all around the campus and used for bin composting. Dustbins have been installed throughout campus for

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.

Samskruti College 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

## Green Audit Report, SCOP-2023

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

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

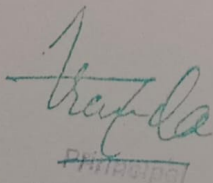
### ***E-waste management:***

Electronic goods are put to optimum use; the minor repairs are set right by the laboratory assistants and the major repairs are handled by the support of technical assistants. The equipment which cannot be refurbished for re-use is dismantled and labelled as e-waste. Input devices like keyboards which are of no use are utilized by students for their typing practice and teaching in a very basic level. UPS Batteries are recharged / repaired / exchanged by the suppliers. The waste compact discs and other disposable non-hazardous items are used by students for scrap art in extra-curricular activities.

### **Any other relevant information:**

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

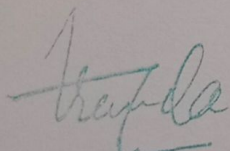
Also institution held various events like scrap art, face painting etc. on the eve of National Pharmacy week celebrations.



Principal

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

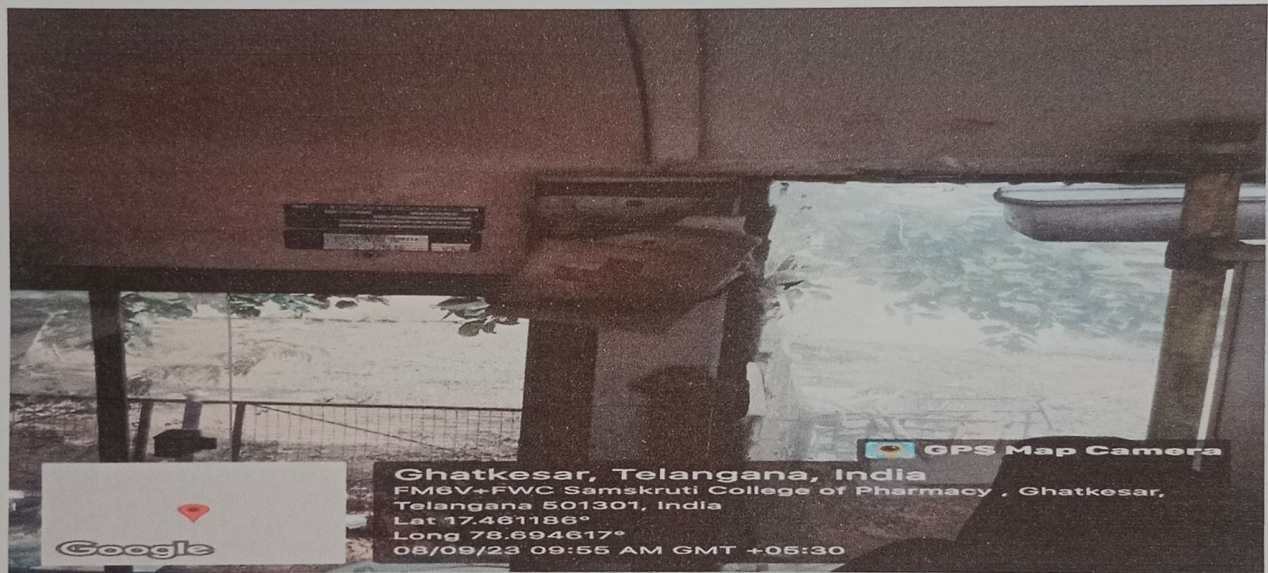
# TRANSPORTATION



*Principal*



College bus Parking Place at SCOP

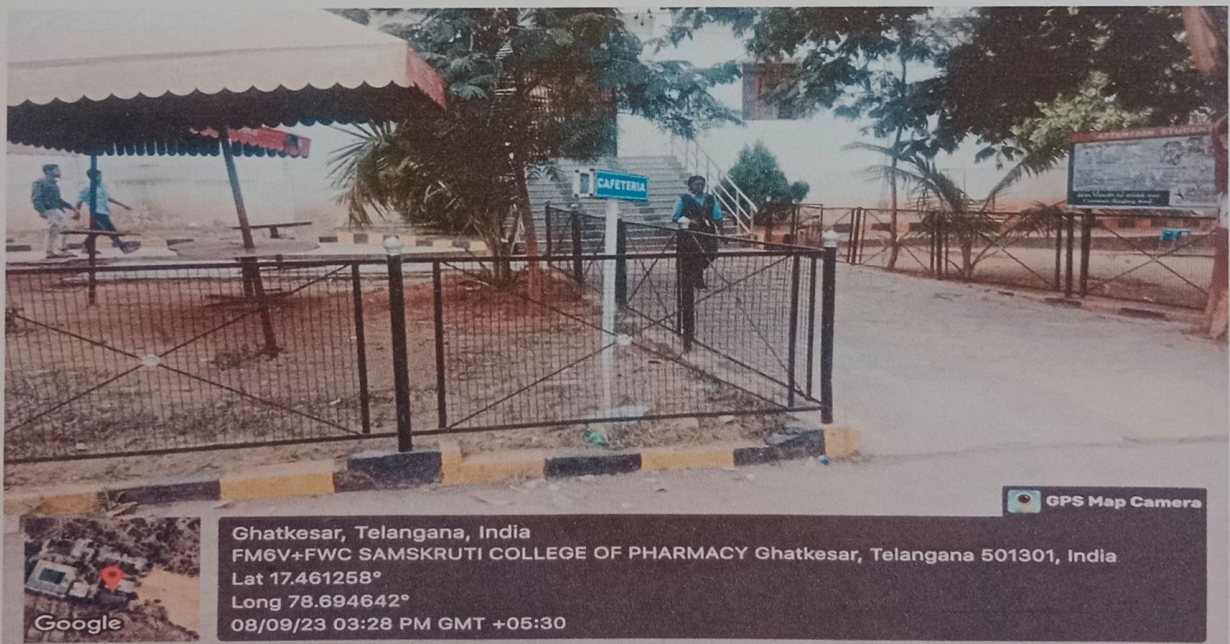
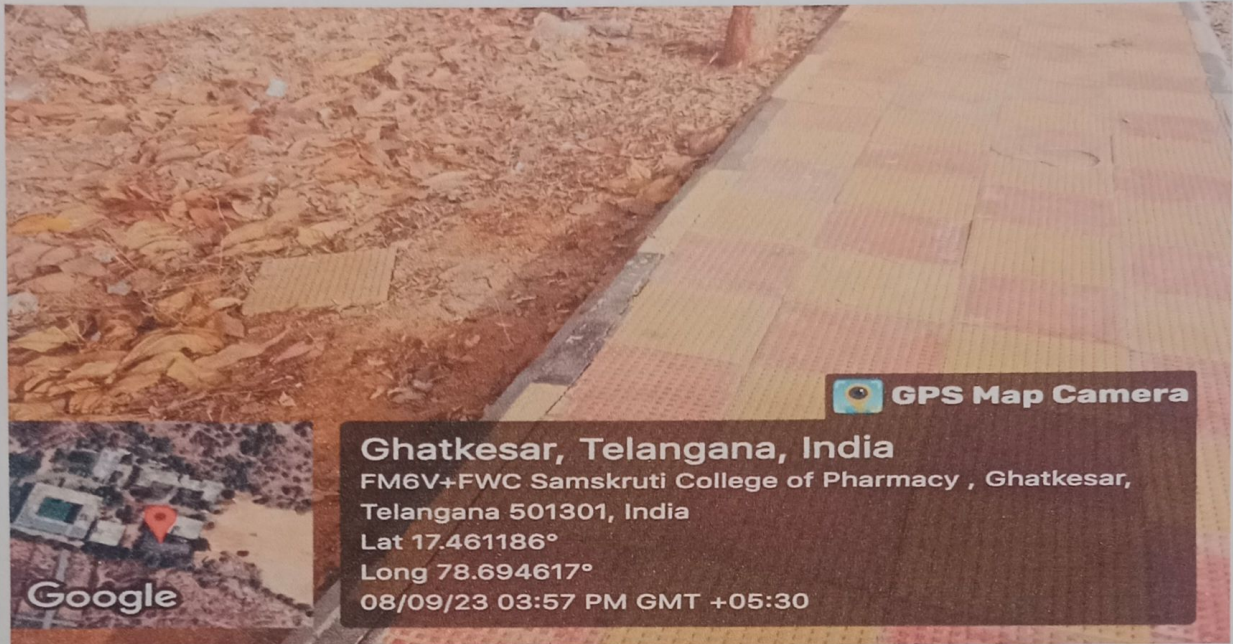


First Aid Box in the College Bus



Two wheeler parking and Pedestrian friendly pathways at SCOP

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



Pedestrian friendly pathways at SCOP

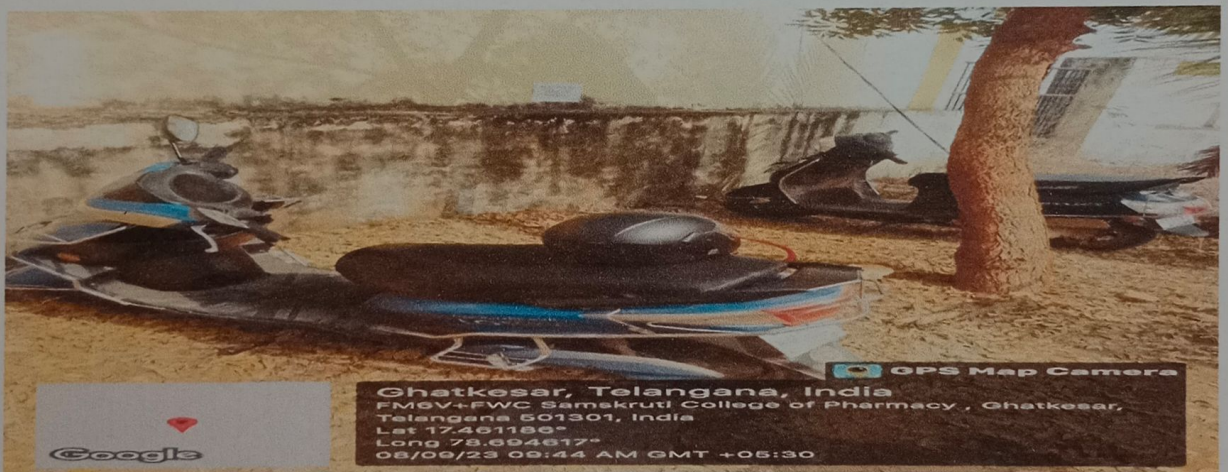
Principal

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

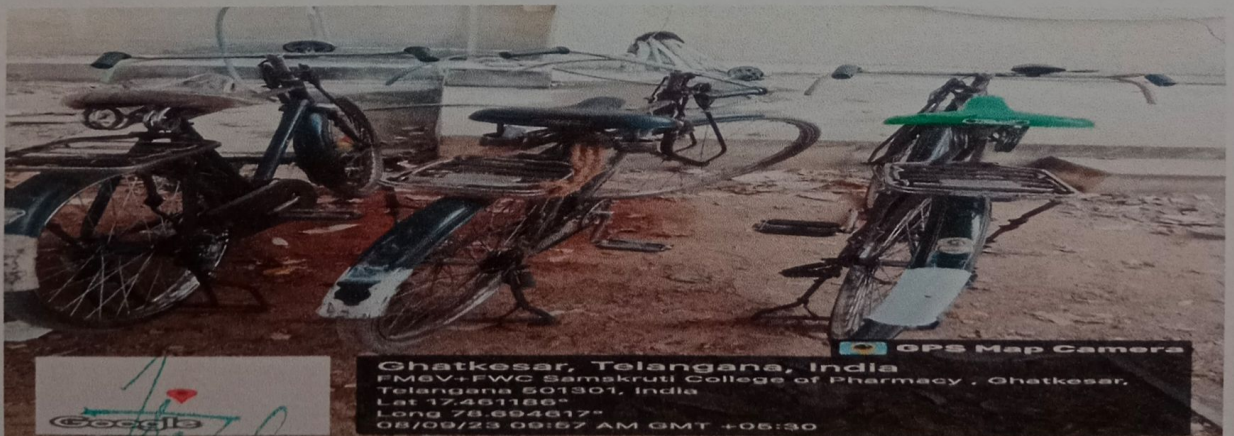




Car Parking Place at SCOP



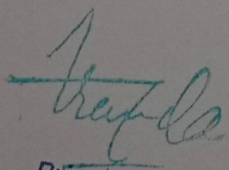
Electronic Vehicle Parking at SCOP



Bicycle Parking at SCOP

*[Signature]*  
Principal  
Samskruti College of Pharmacy  
Kondapur (V), Ghatkesar  
Medchal Dist.

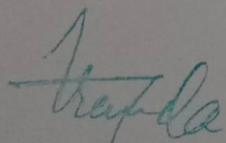
# ELECTRICAL ENERGY CONSUMPTION AT SCOP



Principal

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

ELECTRICAL CONSUMPTION OF SCOP (2018-2023)							
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	
<b>Total (Kwh)</b>		<b>155,037</b>	<b>161,114</b>	<b>98,937</b>	<b>96,257</b>	<b>150,231</b>	<b>157,111</b>

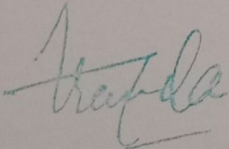


Principal

Replacement of Tube lights with LED's

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

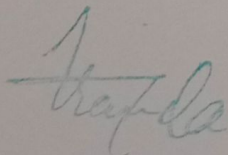
Total 9.08 KW of power consumption is reduced to 6.2 KW with the replacement of Non-LED Lamps and Tube Lights with LEDs.



Principal

Samskruti College of Pharmac,  
Kondapur (V), Ghatkesar (M),  
Medchal Dist. PIN-501001

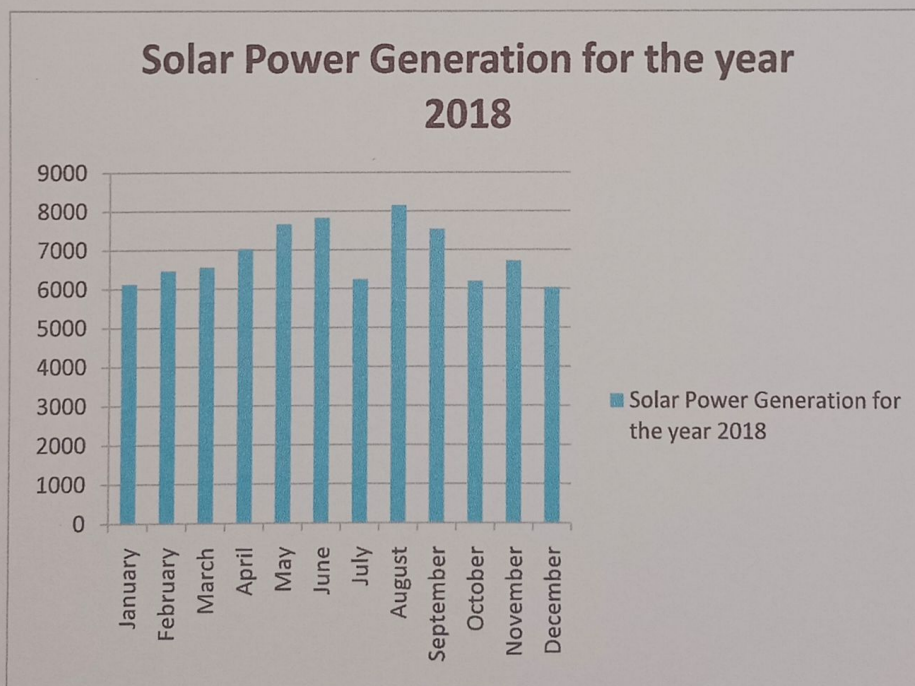
# SOLAR ENERGY GENERATION IN SCOP



*Principal*

Samskruti College of Pharmacy  
Kondapur (V), Ghatkesar (M).  
Medchal Dist. PIN-501001

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	
<b>Total (Kwh)</b>		<b>82,605</b>	<b>78,285</b>	<b>79,756</b>	<b>76,498</b>	<b>63,841</b>	<b>40,090</b>



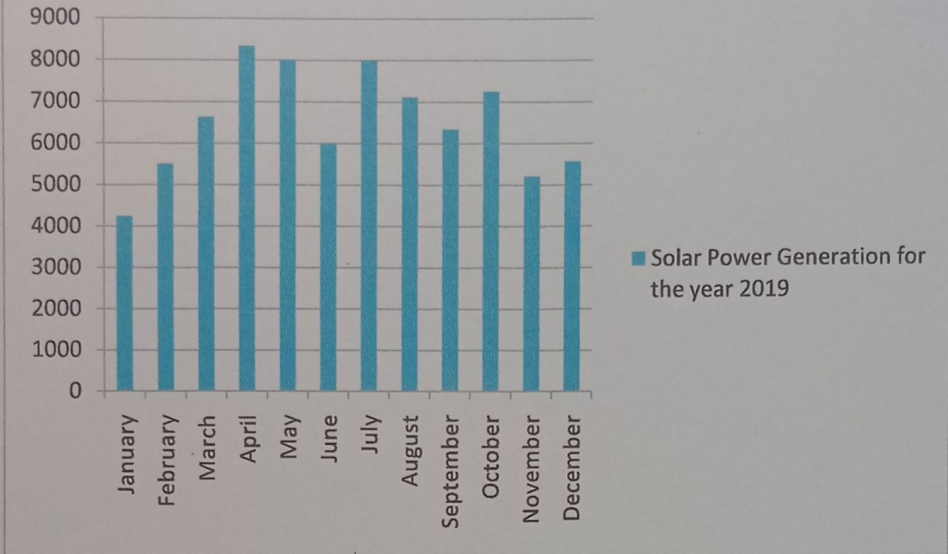
*[Handwritten Signature]*

Principal

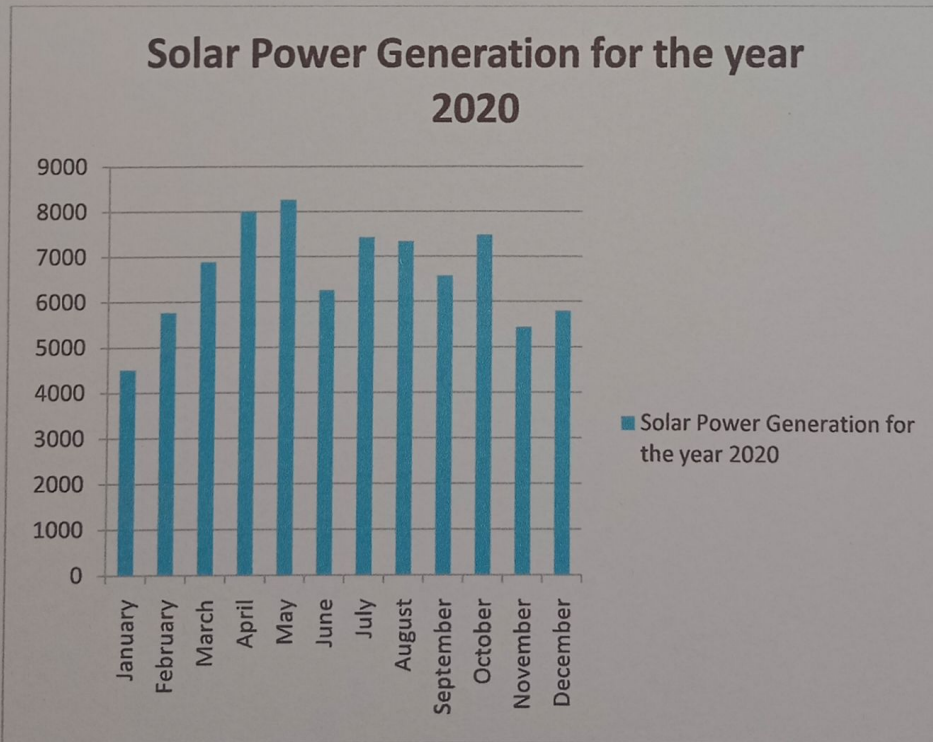
Samskruti College of Pharmacy

Kondapur (V), Ghatkesar  
Medchal Dist. PIN-501101

### Solar Power Generation for the year 2019

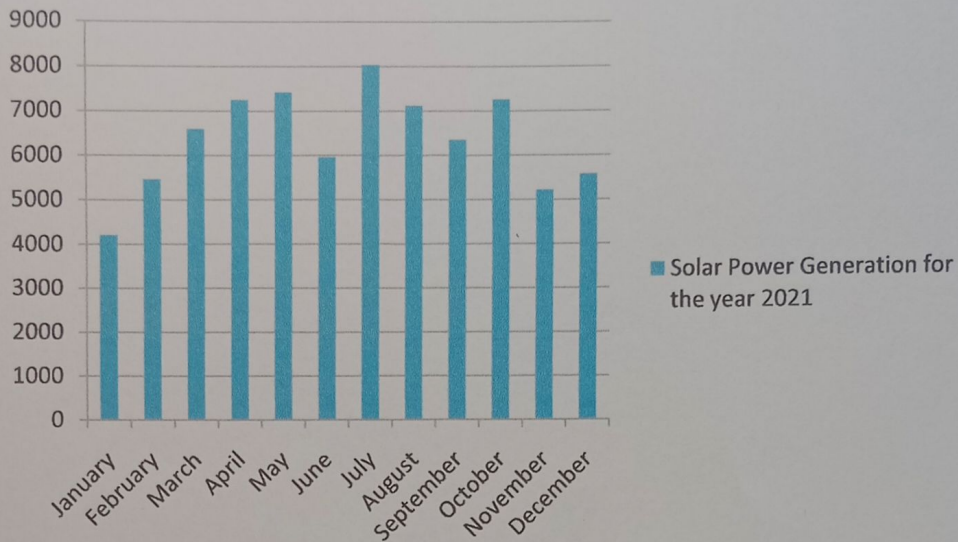


### Solar Power Generation for the year 2020

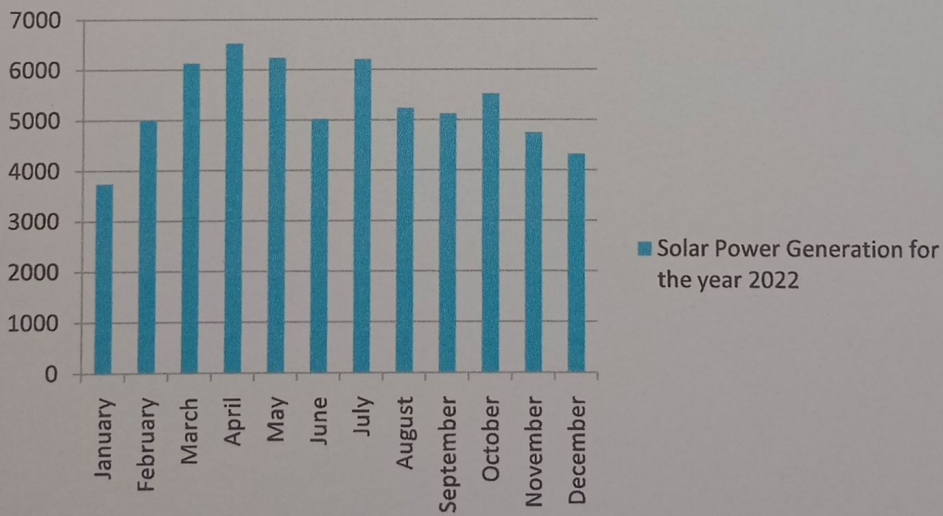


*[Signature]*  
Principal

### Solar Power Generation for the year 2021



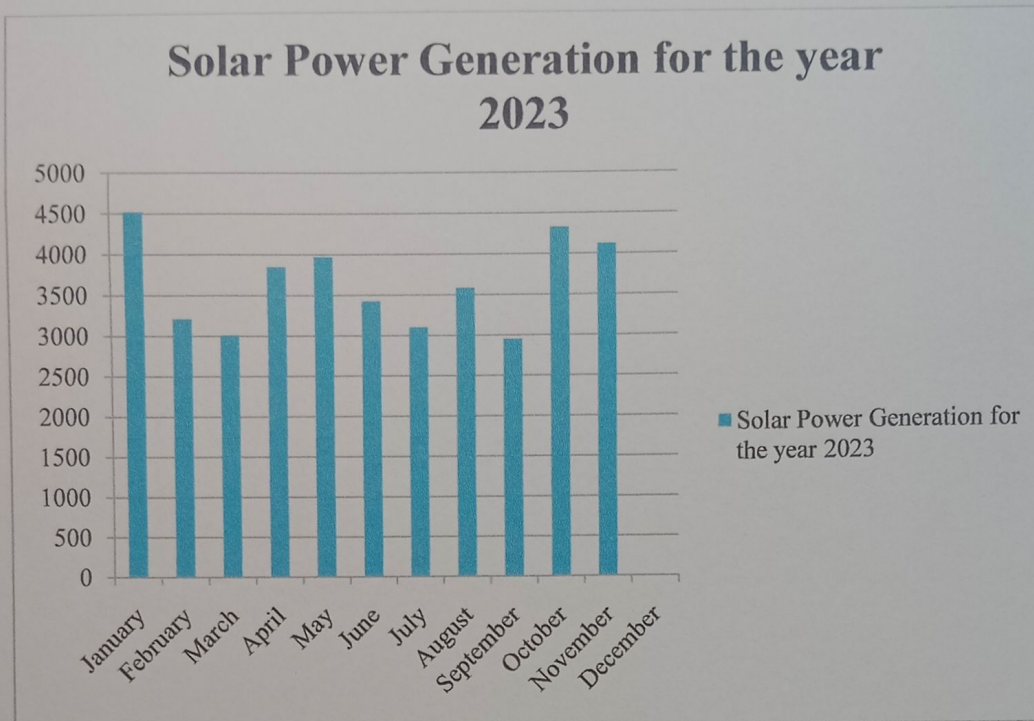
### Solar Power Generation for the year 2022



Principal

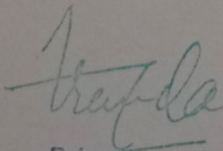
Samskruti College of Pharmacy  
Kondapur (V), Ghatkesar (M),  
Medchal Dist. PIN-501391





*[Handwritten Signature]*  
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
Total (KWh)		82605	16172	66433	88604	155037



*Prasada*  
Principal

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

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

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

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

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

*[Signature]*  
Principal

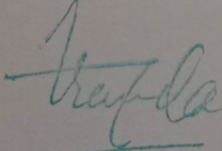
**Solar Plant Exported Units & Imported Units from TSSPDCL for The Year 2020**

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
Total (KWh)		79756	25947	53809	45128	98937

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

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

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

  
Principal

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

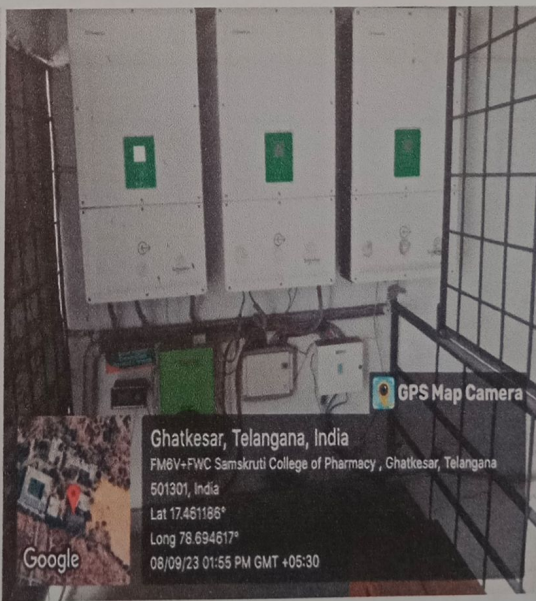
S.no	Month	Total Units Generated by solar plant(30days)	Exported units to Grid	Total Units Consumed from Solar plant	Total Units Imported from TSSPDCL	Net units consumed by the college
1	January	4207	2236	1971	1895	3866
2	February	5471	3423	2048	4758	6806
3	March	6599	3040	3559	5481	9040
4	April	7256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

**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
Total (KWh)		63841	11560	52281	97950	150231

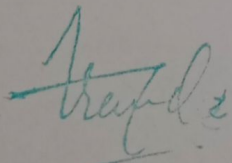
**Solar Plant Exported Units & Imported Units from TSSPDCL for The Year 2023**

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					
Total (KWh)		40090	6114	33976	123135	157111



*Handwritten signature*  
Principal

# EXPENDITURE ON GREEN INITIATIVES DURING THE LAST FIVE YEARS



*Principal*

**Samskruti College of Pharmacy**

Kondapur (V), Ghatkesar (M)

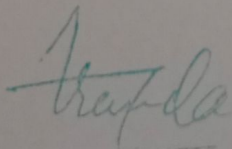
Medchal Dist. PIN



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

Iskruti College of Pharmacy  
Dandapur (V), Ghatkesar Taluka,  
Mehsana Dist, PIN-382111