

Green Audit Report

KVSR Siddhratha College of
Pharmaceutical Sciences
Siddhartha Nagar, Vijayawada - 520 010



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INTRODUCTION

INTRODUCTION

Audits of Green, &Environment can be defined as systematic identification, quantification, recording, reporting and analysis of components of environmental diversity. The development at the global level and various regions of the country leads to several environment and economic issues. In view of this KVSRSOPS steps ahead in maintaining the sustainable green campus and to analyse environmental practices within and outside the college campus which will have an impact on the wellbeing of the students and other stakeholders. These initiatives also inculcate a social responsibility which indirectly leads to the conservation of all types of energy sources and safe guards the environment for a healthy living.

OBJECTIVES

OBJECTIVES

The main objectives of carrying out Green, Energy and Environmental audit are

- a) To aware students to real concerns of environment and its sustainability.
- b) To document the green diversity of the campus.
- c) To estimate the energy requirements of the college.
- d) To document the ambient environmental condition of weather, air, water and noise of the college.

METHODOLOGY

METHODOLOGY

The purpose of the green, and environmental audit of KVSRSOPS is to ensure that the practices followed in the campus are in accordance with the Green Policy of the country.

The methodology includes:

- a) Collection of data
- b) Physical inspection of the campus
- c) Observation and review of the documentation and data analysis

ABOUT THE COLLEGE

ABOUT THE COLLEGE

KVSR Siddhartha College of Pharmaceutical sciences was established in 1994 (sponsored by Siddhartha Academy of General & Technical Education) and was affiliated to Acharya Nagarjuna University, Guntur. From 2010 onwards the institution is affiliated to Krishna University, Rudravaram, Machilipatnam, Andhra Pradesh. This is the first private (self-financed) institution established in the combined state of Andhra Pradesh. The college offers 4-year Undergraduate (B.Pharmacy) and 2-year Postgraduate (M.Pharmacy) , 6 year Pharm D degree and 3 year Pharm D. Post Baccalaureate degree programs. The Institution is approved by the AllIndia Council for Technical Education (AICTE) and Pharmacy Council of India (PCI). Over the years KVSR Siddhartha college of pharmaceutical sciences has carved a niche for itself by becoming a center of excellence in the field of pharmaceutical education. The college is ideally located at Siddhartha Nagar in the heart of Vijayawada city. The college is situated in a vast building, which is in close proximity to other major educational institutions run by the Siddhartha Academy enabling it to interact closely with them in matters of academic and professional programs.

VISION & MISSION STATEMENT

VISION AND MISSION STATEMENT

Vision

To create competent pharmacy professionals capable of working in multifaceted environment.

Mission

To impart quality education and training for pharmacy students in order to empower them as well qualified and highly competent professionals.

GREEN AUDITING

GREEN AUDITING

Data is collected for the green audit of KVSR Siddhartha College of Pharmaceutical Sciences. The collected data involves the list of plants and trees available in the campus

Introduction

The college plays an important role in maintaining the campus green, where the plants and trees of the college have increased the quality of life, in terms of contributing to our environment by providing oxygen, improving air quality, conservation of water, preserving soil, and 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. The rich biodiversity has aided humanity in providing food security, health care, and industrial goods, resulting in a high standard of living in the modern world. Ironically, it has also given rise to the modern consumerist society, which has a negative impact on the diversity of biological resources on which it is based. The diversity of life on Earth is so rich that if we use it wisely, we can continue to develop new products for future generations. As a result, we must recognise the significance of biodiversity as a valuable resource. Without biodiversity, we would be a homogeneous population with the same vulnerabilities (if we existed at all). This would imply that in the event of an epidemic, we would all perish because there would be no biological differences that would allow some of us to survive and adapt. A large part of modern medicine is based on the combination of biologically diverse substances isolated from various plants (which we, therefore, label medicinal). Even before modern medicine, ayurveda and unani systems of medicine used a variety of plants to achieve a variety of results. Humans would be much more susceptible to disease if those plants and insects did not exist.

LAND USE ANALYSIS OF KVSRS COPS

LAND USE ANALYSIS, KVSRSOPS

GENERAL OVERVIEW OF THE CONCEPT OF LAND USE

The term "land use" describes human activity and the many uses that are made of and taken from land. Viewing the earth from space has become increasingly important for man's use of natural resources.

Earth observations from space provide information on human activities and land use in situations where there are rapid changes in land use.

Remote monitoring Modern land use mapping and planning methods now have new tools thanks to GIS techniques. The gathering of remotely sensed data makes it easier to conduct synoptic analyses of the earth's systems, processes, patterns, and changes over time at local, regional, and global scales. In particular, satellite imagery is a useful tool for creating maps of land use.

METHODOLOGY ADOPTED FOR LAND USE MAPPING

In this study, three different types of data—GPS points, field survey data, and georeferenced Google Earth data—were utilised.

DATA PROCESSING AND ANALYSIS

The following steps are used to prepare land use maps:

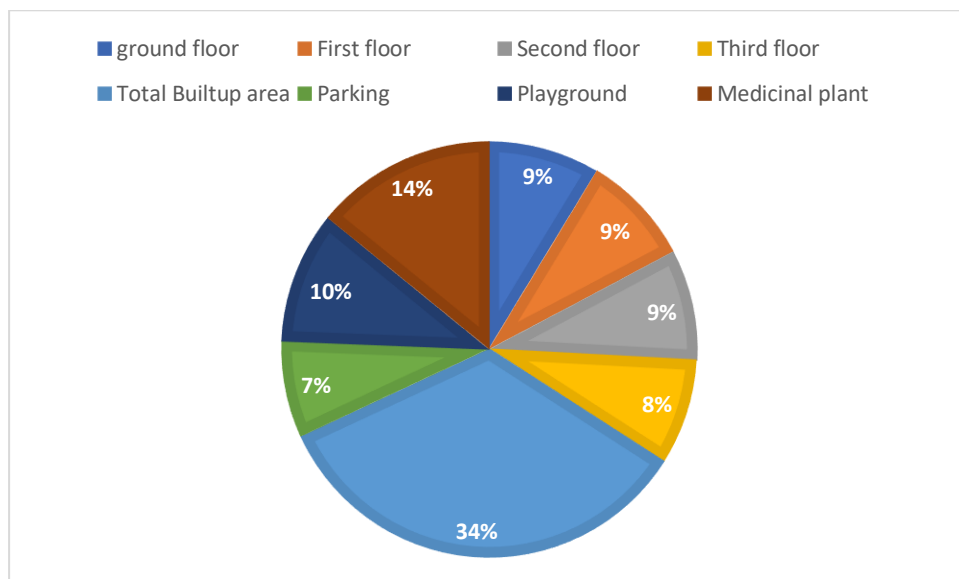
Data collection (latitude and longitudinal data), georeferencing, and geocoding of satellite images using ground control points. The use of ground truth information gathered during a field survey helped with the supervised classification process. GIS was used for the scanning, digitising, and editing of all the georeferenced maps. GIS software was used for data manipulation, analysis, and topology creation by tying together spatial and attribute data. Additionally, a land use map with different land uses created using GIS has been prepared.

In order to detect the land consumption in the built-up land area using both remote sensing and GIS techniques, an attempt has been made to map land use for KVSRSOPS in this study.

LAND USE DATA OF KVSRSOPS, Siddhartha Nagar, Vijayawada

CATEGORIES OF LAND USE	AREA (Sq.M)
Total Site Area	25184.43
Ground Floor area	1678.27
First Floor area	1678.27
Second Floor area	1678.27
Third Floor area	1599.77
Total Builtup area	6634.58
Parking area	1463.35
Playground area	2000(40x50 m)
Medicinal plant area	2750 sq ft

LAND USE ANALYSIS, KVSRSOPS, Vijayawada.



LAND USE (BUILT UP AREA) ANALYSIS

The builtup area of 33.85% (i.e. 6634.58 Sq.m²) consists of the following regions as stated below for land consumption in built up area for KVSRR Siddhartha College of Pharmaceutical Sciences, Vijayawada.

Area occupied by various buildings of KVSRRSCOPS

Ground floor

Room No	Nature of room/ Purpose of the Room	Dimensions	Area in Sq.Ft.	Area in Sq.M.
101	Library	72 x 30	2160	200.74
102	Principal chamber	20 x 24	480	44.60
103	Office	20x30	600	55.76
104	Industrial Pharmacy lab/ Machinery Room	40 x 30	1200	111.52
105	Staff Room / Counseling Room	10 x 9	90	8.36
106	Pharmaceutics lab-1	40 x 30	1200	111.52
106	Pharmaceutics Lab Preparation room	20 X 10	200	18.58
107	Stores	17 x 30	510	47.39
108	Seminar Hall	76 x 39	2964	275.46
109	Pharmaceutics Lab-II PG	39 x 30	1170	108.73
109	Pharmaceutics Lab-II P.G Preparation Room	12 x 30	360	33.45
110	Staff Room – HoD, Pharmaceutics	15 x 30	450	41.82
111	Class Room (PG) Pharmaceutics	28 x 30	840	78.06
112	Pharmaceutics Lab-I P.G	30 X 30	900	83.64

First floor

Room No	Nature of room/ Purpose of the Room	Dimensions	Area in Sq.Ft.	Area in Sq.M.
201	Boys common room	30 x 10	300	28.43
202	Lecturer Hall	30 x 40	1200	111.52
203	Waiting Hall (Girls)	19 x 30	570	52.97
204	Pharma Chemistry Lab-1	30 x 40	1200	111.52
205	Staff Room - HoDPharmachemistry	17 x 10	170	15.79
206	a. Pharm Chemistry Lab-2	30 x 40	1200	111.52
206	b. Pharmachemistry preparation room	13 X 10	130	12.08
207	PP Lab / Research Lab	30 x 20	600	55.76
208	a. Staff Room	10 x 28	280	26.02
208	b. Central Instrument Room	18 x 28	504	46.84
209	PharmaAnalysis Lab & preparation room	28 x 29	812	75.46
210 & 211	Examination Cell	40 x 10	560	52.04
212	Computer Lab / language lab	21 X 30	630	58.55
213	a. Pharmaceutical Analysis Lab-II P.G	27 X 30	810	75.27
213	b. Pharmaceutical Analysis Lab-II P.G, Instrument room	30 X 12	360	33.45
214	Lecture hall	15 X 30	450	41.82
215	Lecture Hall	28 X30	840	78.06
216	Pharmaceutical Analysis Lab-I PG	30 X 30	900	83.64
216	Staff Room	20 x 10	200	18.58

Second floor

Room No	Nature of room/ Purpose of the Room	Dimensions	Area in Sq.Ft.	Area in Sq.M.
302	Lecture Hall	30 X 40	1200	111.52
303	Lecture Hall	40 X 30	1200	111.52
304	a. Pharmacology lab	30 X 33	990	92
304	b. Pharmacology lab Preparation Room	15 x 7	90	8.36
305	Museum	10 X 30	300	27.88
306	Staff Room HoD Pharmacognosy	10 X 10	100	9.29
307	a. Microbiology lab	29 X 30	870	80.85
307	b. Microbiology lab Preparation room	20 X 10	200	18.58
308	Staff Room	30 X 19	570	52.97
309	a. Pharmacognosy lab	36 X 30	1080	100.37
309	b. Pharmacognosy lab Preparation Room	16 X 10	160	14.86
310	Staff Room	10 X 10	100	9.29
311	M.PharmChem.Lab& preparation room	30 X 30	900	83.64
312	Pharmaceutics Lab -UG	31 X 30	930	86.43
313	a. APH Lab	27 X 30	810	75.27
313	b. Staff Room - HoD Pharmacognosy	30 X 12	360	33.45
314	Staff Room	15 X 30	450	41.82
315	Sports Room	28 X 30	840	78.06
316	a. Pharmacy Practice lab	30 X 30	900	83.64
316	b. Staff Room HoD, Pharmacy Practice	20 X 10	200	18.58

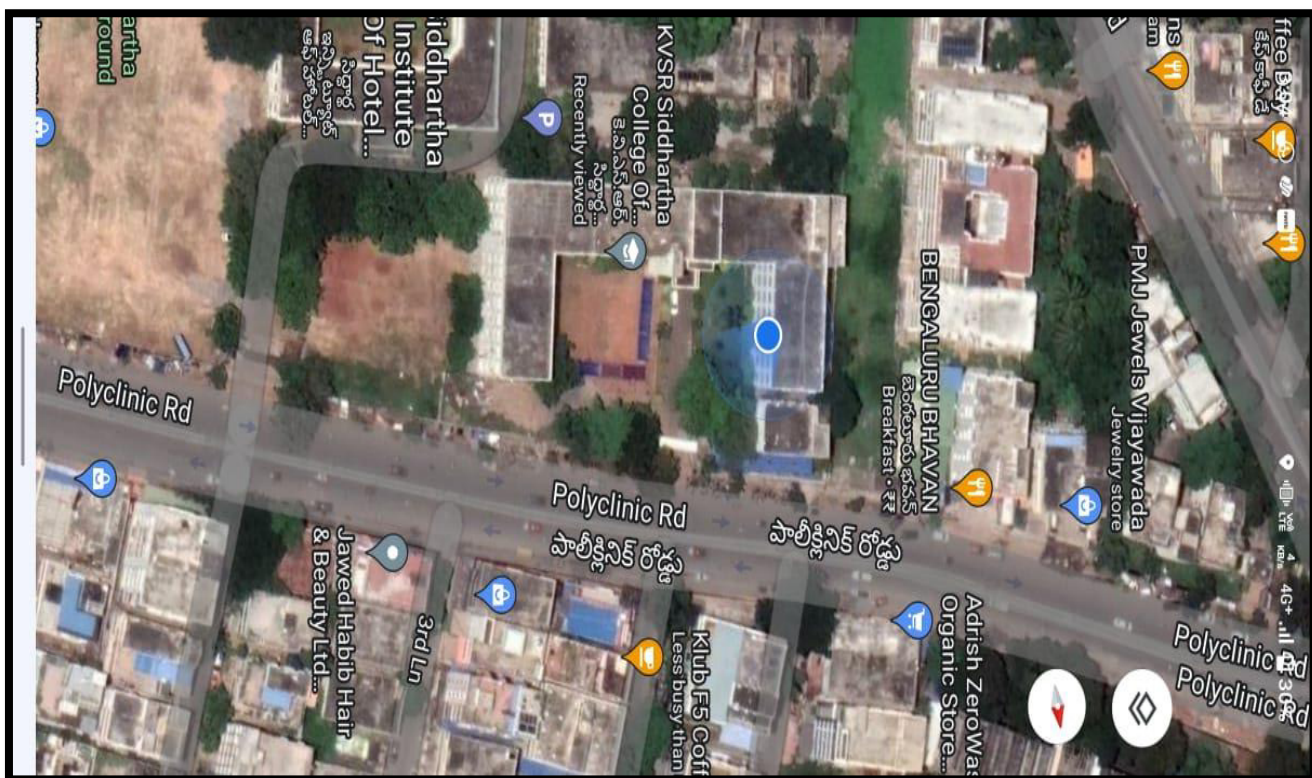
Third floor

Room No	Nature of room/ Purpose of the Room	Dimensions	Area in Sq.Ft.	Area in Sq.M.
401	Lecture Hall	60 x 30	1800	167.00
402	Staff Room	20 x 30	600	55.76
403	Computer lab / E Classroom Lecture hall	40 x 30	1200	111.52
404	Lecture Hall	30 x 22	660	61.33
405	Lecture Hall	20 X 30	600	55.76
406	Lecture Hall	20 X 30	600	55.76
407	Lecture Hall	20 X 30	600	55.76
408	Lecture Hall	20 X 30	600	55.76
409	Ladies Toilets			
410	Staff Room	10 x 30	300	27.88
411	Placement cell	20 x 30	600	55.76
412	SPIIC Microbiology Lab	20 x 30	600	55.76
413	Board Room	10 x 30	300	27.88
414	IQAC Room	30 x 30	1200	111.52
415	Incubation lab	80 x 40	3200	297.38

GEOGRAPHICAL LOCATION WITH CAMPUS MAP IN SCALE

GEOGRAPHICAL LOCATION WITH CAMPUS MAP IN SCALE

The college has a sprawling pollution-free campus spread over 1 acres of land in the heart of Siddhartha Nagar, Vijayawada.



TREE DIVERSITY OF KVSRSOPS

S. No	Botanical Name	FamilyName	Common Name	Total
1	<i>Azadirachta indica</i>	Meliaceae	Neem	4
2	<i>Aloe vera</i>	Liliaceae	Aloes	8
3	<i>Artocarpus heterophyllus</i>	Moraceae	Jackfruit	1
4	<i>Annona squamosa</i>	Annonaceae	Custard apple	1
5	<i>Annona muricata</i>	Annonaceae	Soursop	1
6	<i>Acalypha indica</i>	Euphorbiaceae	Indian Acalypha	5
7	<i>Aristolochia bracteolata</i>	Aristolochia-Ceae	Wormkiller	5
8	<i>Boswellia serrata</i>	Burseraceae	Indian oil banum tree	1
9	<i>Catharanthus roseus</i>	Apocynaceae	Periwinkle	6
10	<i>Citrus limetta</i>	Rutaceae	Sweetlime	1
11	<i>Citrus limon</i>	Rutaceae	Lemon	2
12	<i>Carica papaya</i>	Caricaceae	Papaya	1
13	<i>Cocos nucifera</i>	Arecaceae	Coconut	1
14	<i>Calotropis procera</i> (white) <i>Calotropis gigantea</i> (black)	<u>Apocynaceae</u>	Calotropis	1
15	<i>Cymbopogon citratus</i>	Poaceae	Lemongrass	1
16	<i>Chamaecostus cuspidatus</i>	<u>Costaceae</u>	Insulin Plant	1
17	<i>Datura innoxia</i>	Solanaceae	Thorn apple	10
18	<i>Davidia involucre</i>	Cornaceae	Handkerchief plant	

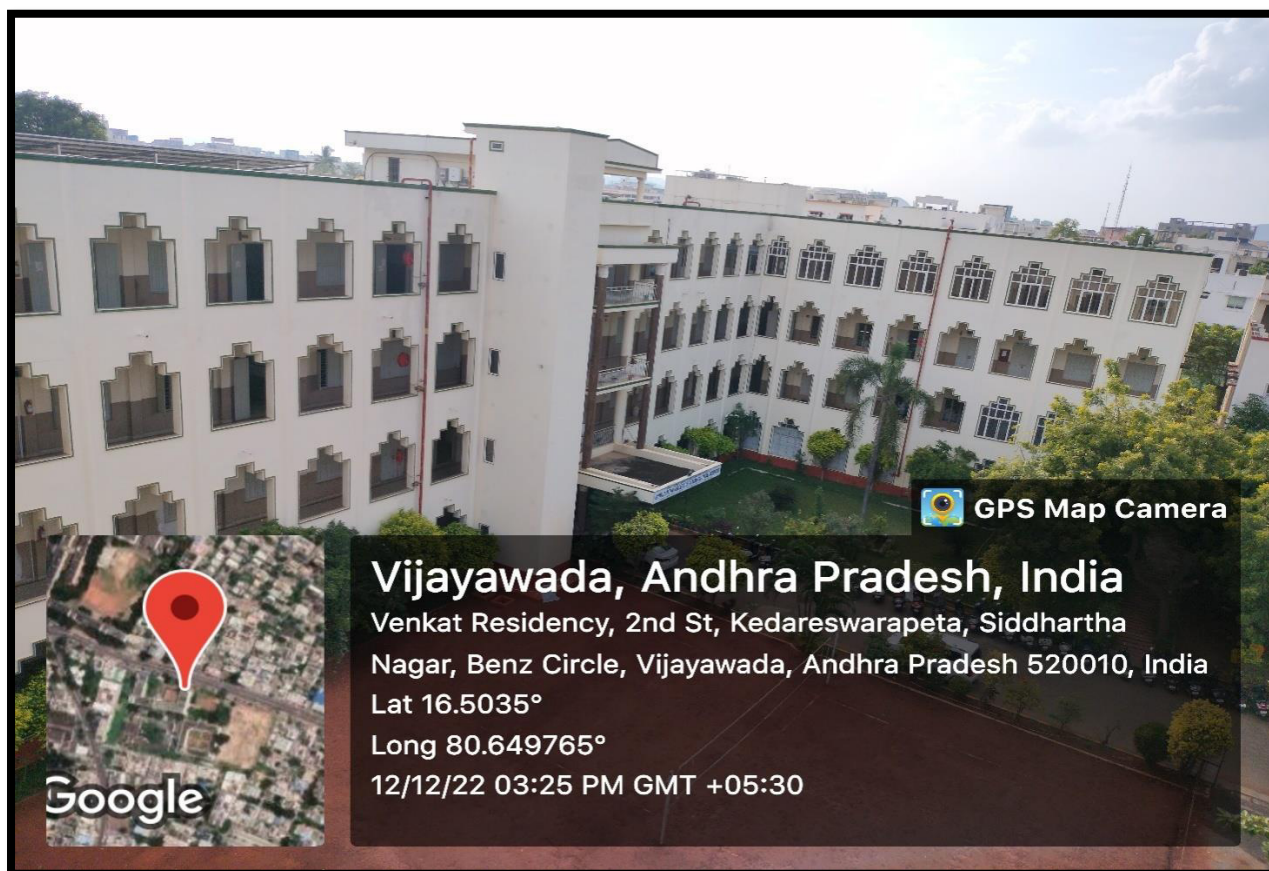
19	<i>Eucalyptus citridora</i>	Myrtaceae	Eucalyptus	1
20	<i>Euphorbia neriifolia</i>	Euphorbiaceae	Leafmilk hedge	
21	<i>Ervatamia divaricata</i>	Apocynaceae	Ervatamia	1
22	<i>Ficus religiosa</i>	Moraceae	Peepal tree	18
24	<i>Ficus benjamina</i>	Moraceae	weeping fig	12
25	<i>Gossypium arboreum</i>	Malvaceae	Cotton	1
26	<i>Hibiscus rosasinensis</i>	Malvaceae	Hibiscus	5
27	<i>Ixora coccinea</i>	Rubiaceae	Jungle flame	4
28	<i>Justicia adhatoda</i>	Acanthaceae	Malabar Nut tree	1
29	<i>Jasminum sambac</i>	Oleaceae	Arabian jasmine	1
30	<i>Lawsonia inermis</i>	Lythraceae	Henna	1
31	<i>Mangifera indica</i>	Anacardiaceae	Mango	2
32	<i>Murraya koenigii</i>	Rutaceae	Curry Leaf	3
33	<i>Moringa oleifera</i>	Moringaceae	Drumstick	1
34	<i>Musa acuminata</i>	Musaceae	Banana	2
35	<i>Manilkara zapota</i>	Sapotaceae	Sapota	1
36	<i>Mentha spicata</i>	<u>Lamiaceae</u>	Spearmint	
37	<i>Nerium oleander</i>	Apocynaceae	Indian oleander	2
38	<i>Neolamarckia cadamba</i>	Rubiaceae	Burflower-tree	1
39	<i>Ocimum sanctum</i>	Lamiaceae	Holy basil	10
40	<i>Plumbago zeylanica</i>	Plumbaginaceae	Blue flowered leadwort	1
41	<i>Plectranthus amboinicus</i>	Lamiaceae	Indian Borage	1
42	<i>Plumeria rubra</i>	Apocynaceae	Pogon tree	

43	<i>Punicagranatum</i>	Lythraceae	Pomegranate	1
44	<i>Psidiumguajava</i>	Myrtaceae	Commonguava	2
45	<i>Phyllanthusembilica</i>	Euphorbiaceae	IndianGooseberry	1
45	<i>Pongamia pinnata</i>	Fabaceae	Indianbeech	
47	<i>Pterocarpussantalinus</i>	<u>Fabaceae</u>	RedSandalwood	1
48	<i>Rauwolfia serpentine</i>	<u>Apocynaceae</u>	Indiansnakeroot	2
49	<i>Rosmarinus officinalis</i>	<u>Lamiaceae</u>	Rosemary	
50	<i>SyzygiumSamarangense</i>	Myrtaceae	Waterapple	1
51	<i>Tabernaemontanadi varicate</i>	Apocynaceae	CeylonJasmine	1
52	<i>Tecomastans</i>	Bignoniaceae	Yellow bellstree	4
53	<i>Tageteserecta</i>	<u>Asteraceae</u>	Marigold	
54	<i>Tinosporacordifolia</i>	<u>Menispermaceae</u>	Guduchi	1
55	<i>Urgineaindica</i>	Liliaceae	Indiansquill	1
56	<i>Vitexnegundo</i>	Verbenaceae	IndianP rivet	1
			total	

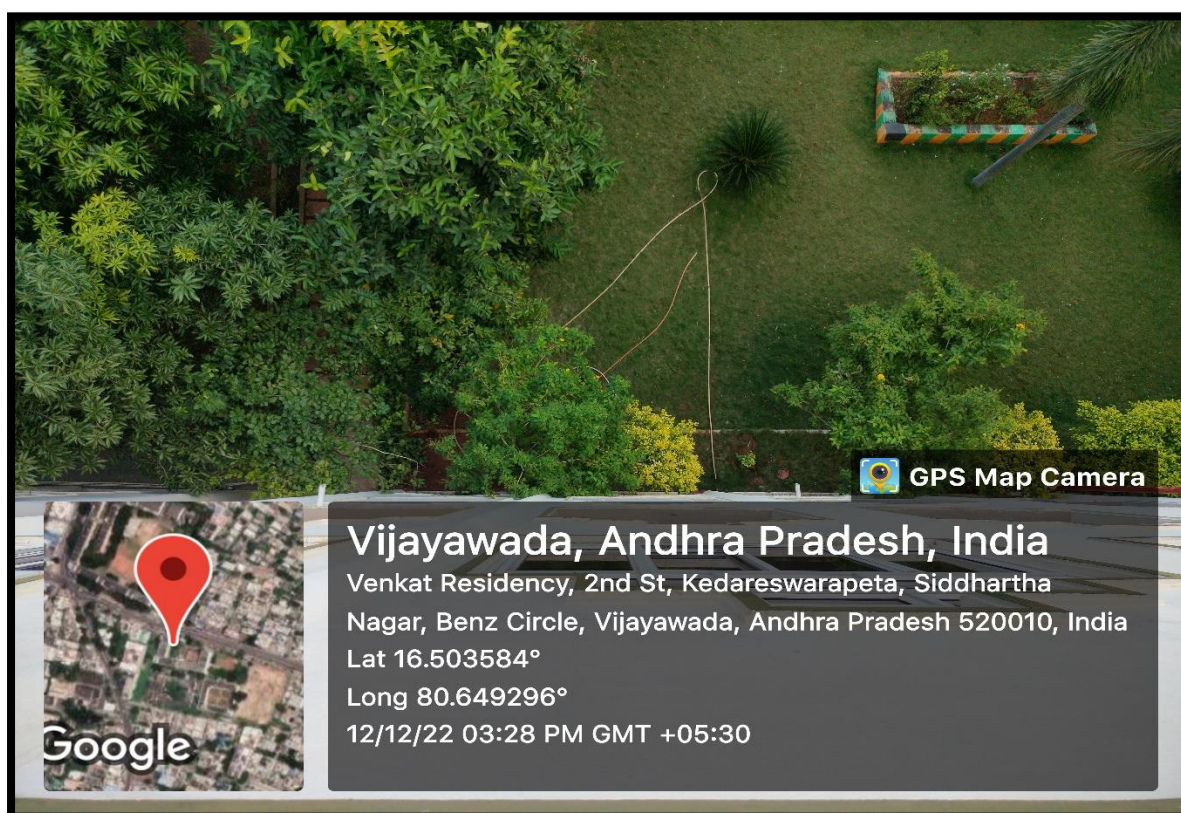
Main Entrance – KVSr Siddhartha College of Pharmaceutical Sciences



Main Building- KVSr Siddhartha College of Pharmaceutical Sciences



Plant View- KVSr Siddhartha College of Pharmaceutical Sciences



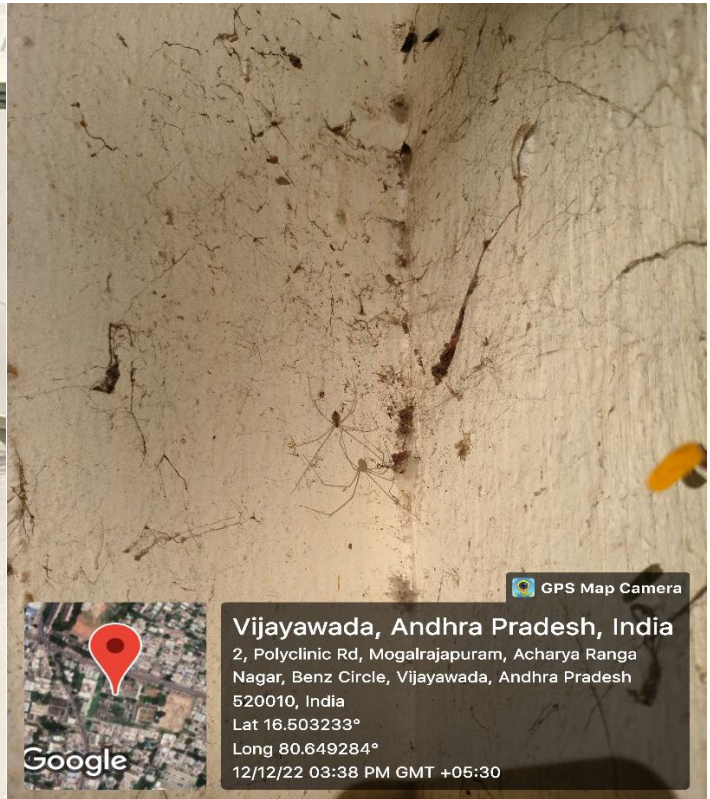


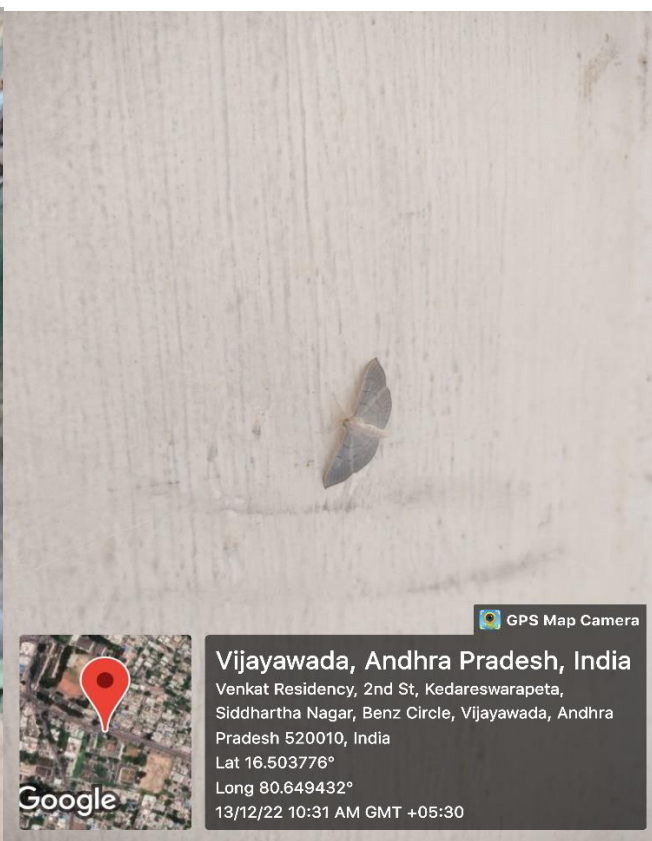
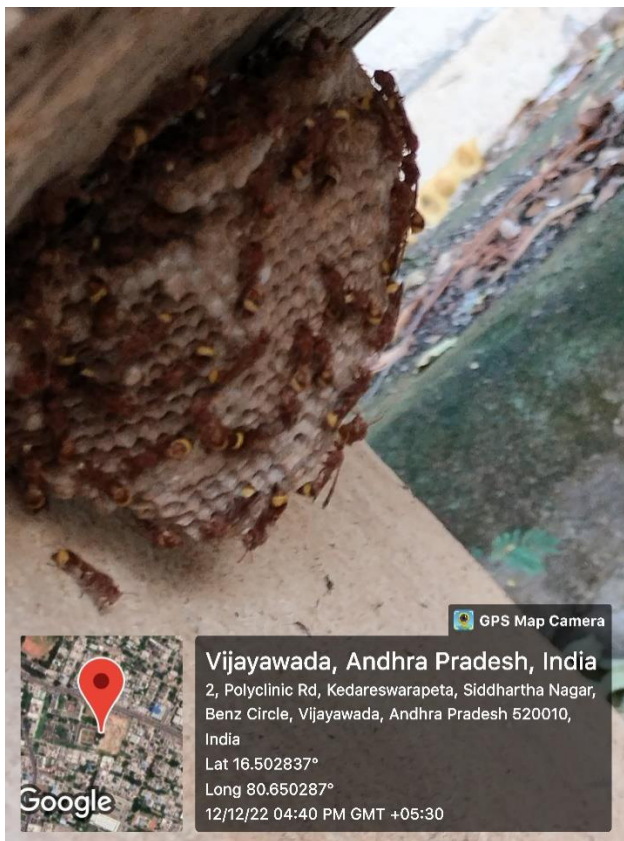
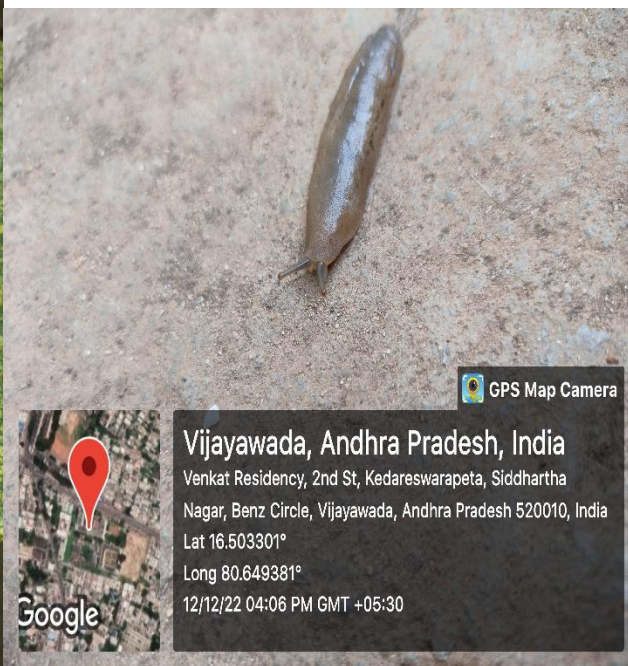
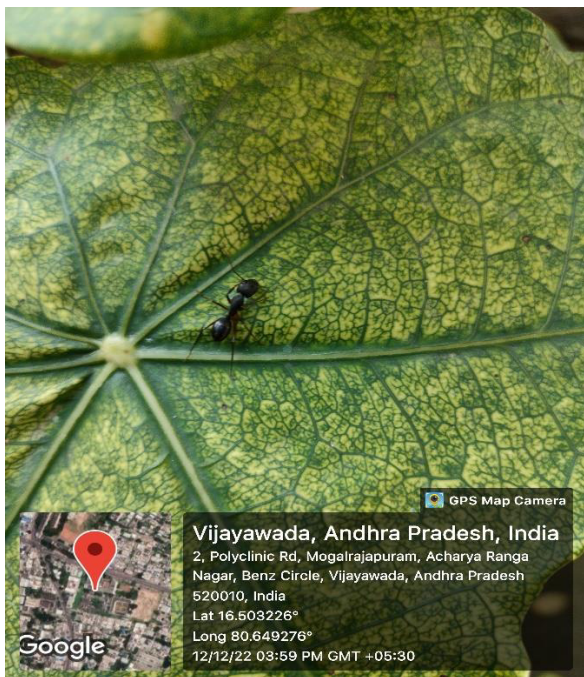
FAUNAL DIVERSITY INKVSRSCOPS

The faunal diversity of KVSRSOPS campus has been studied and documented below

S.No	Common Name	Scientific Name
1.	House Sparrow	Passer Domesticus
2.	House Crow	Corvus Splendens
3.	Butter Fly	Danaus Genutia
4.	Honey bees	Apis
5.	Guinea pig	Cavia Porcellus
6.	Grass Hopper	Orthoptera
7.	Squirrel	Sciuridae
8.	Lizard	Lacertilia
9.	Pigeon	Columbidae
10.	Parrots	Indian Rose Ringed Parakeet

Faunal diversity in KVSRSOPS

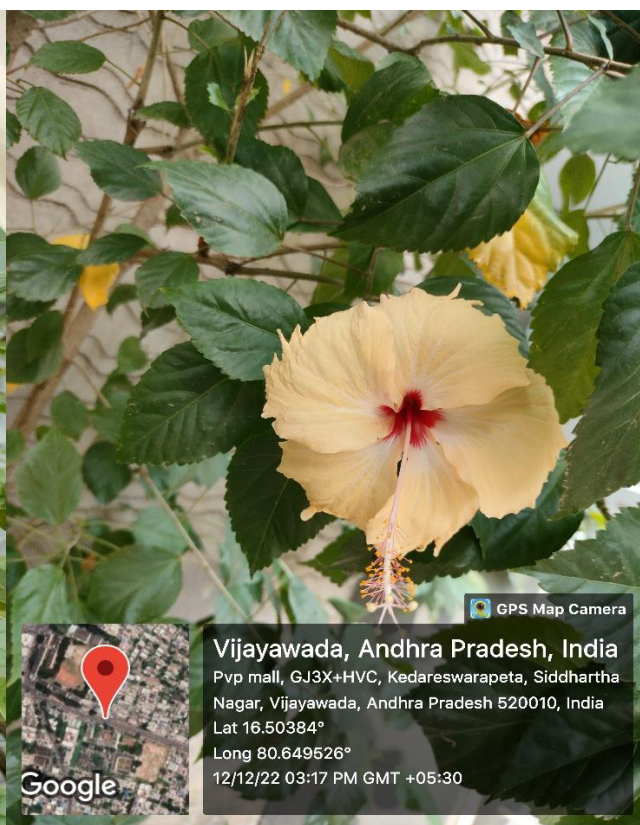
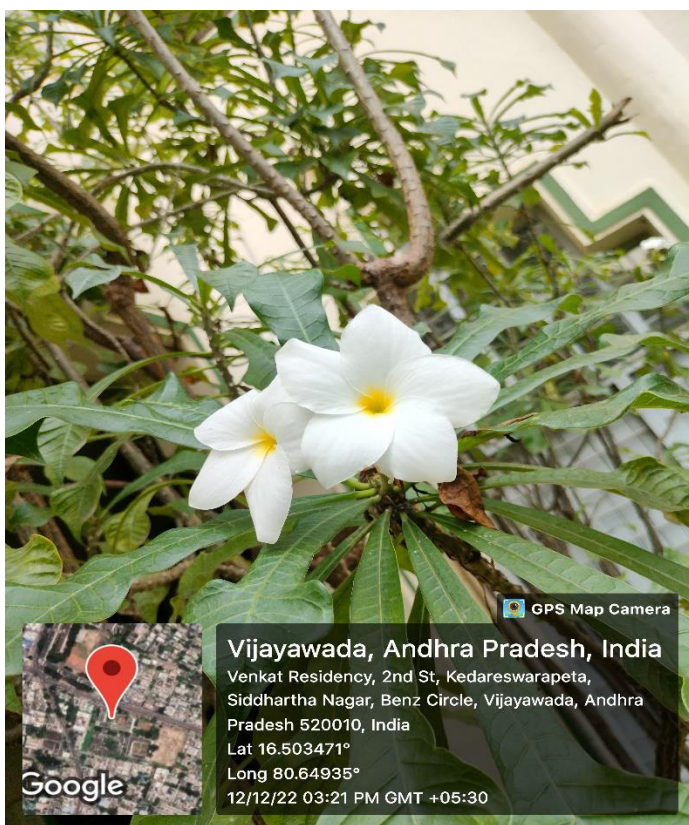
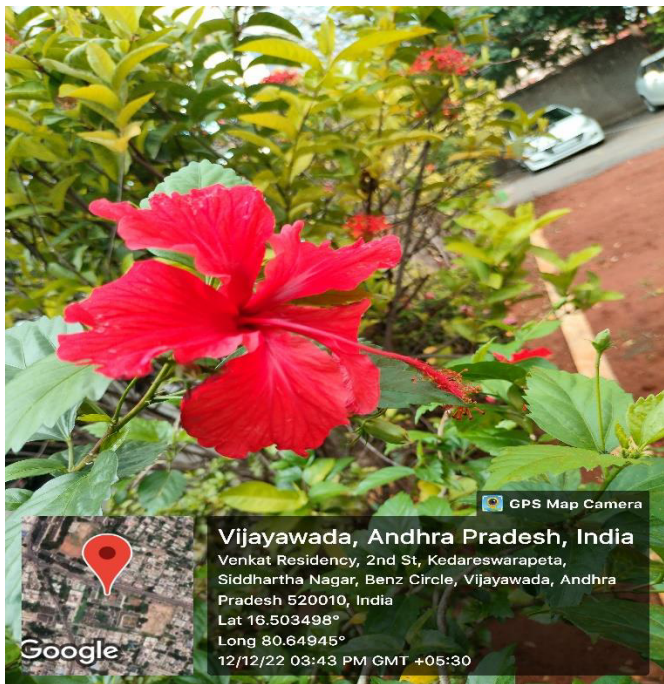




FLORAL DIVERSITY IN KVSRS COPS

Floral diversity in KVSRSOCPS



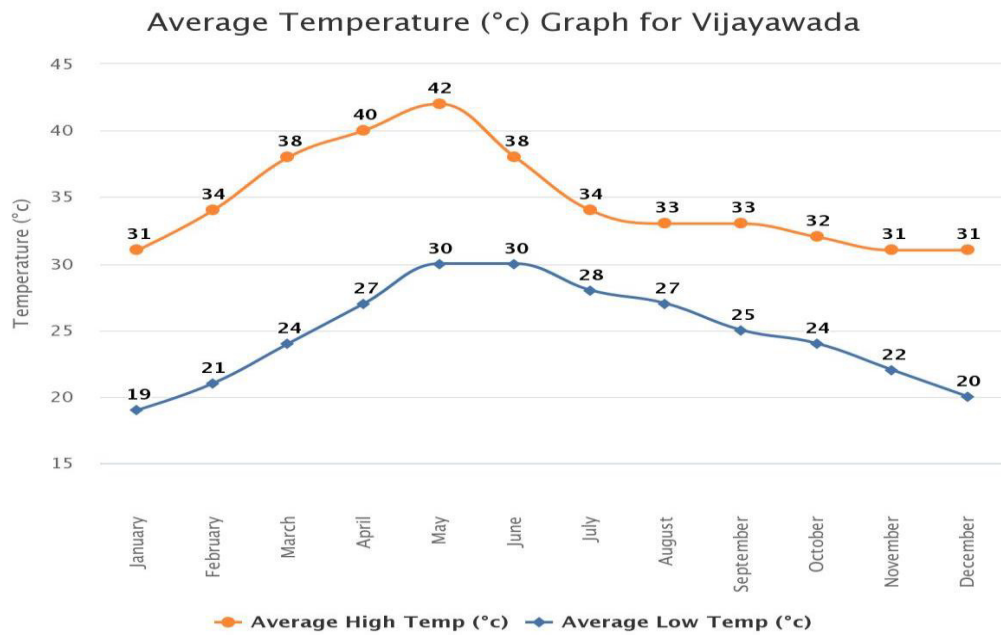




WEATHER DATA OF KVSRSOPS

Weather report-2022

Temperature at KVSr Siddhartha College of Pharmaceutical Sciences, Vijayawada

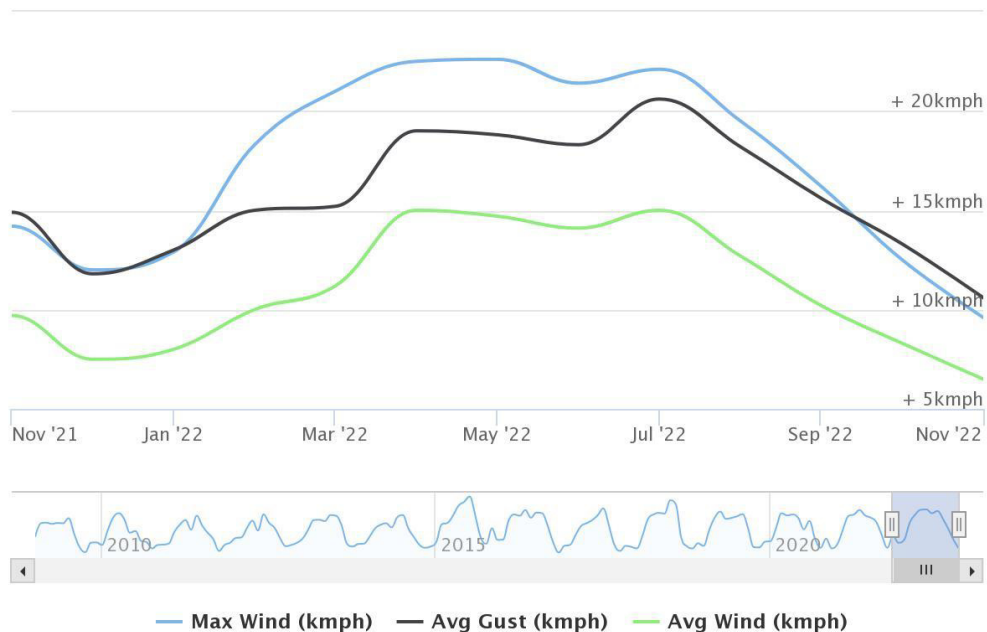


Wind speed at KVSr Siddhartha College of Pharmaceutical Sciences, Vijayawada

Vijayawada

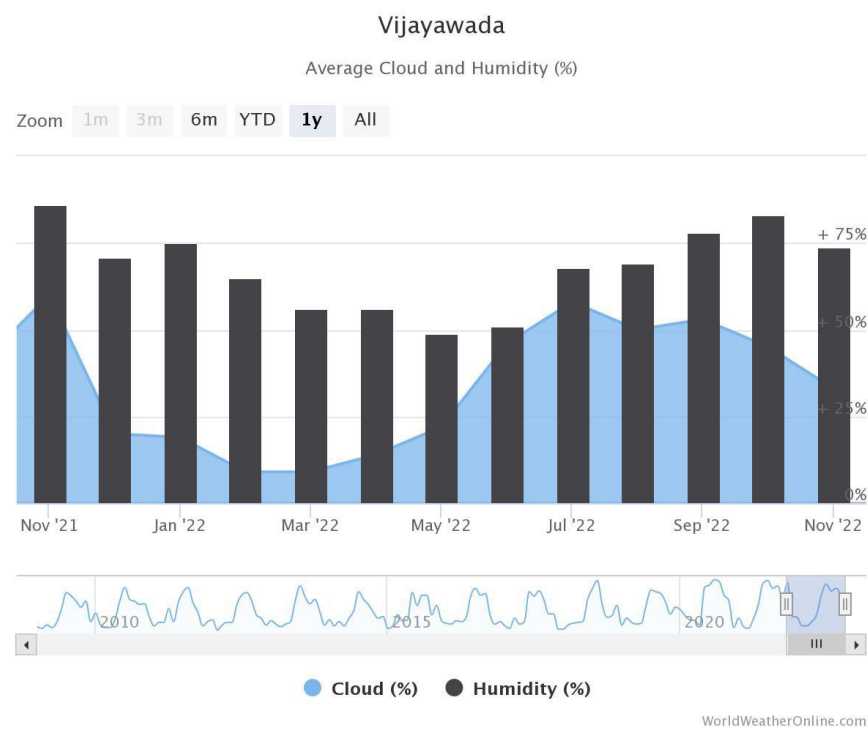
Average and Max Wind Speed and Gust (kmph)

Zoom 1m 3m 6m YTD 1y All

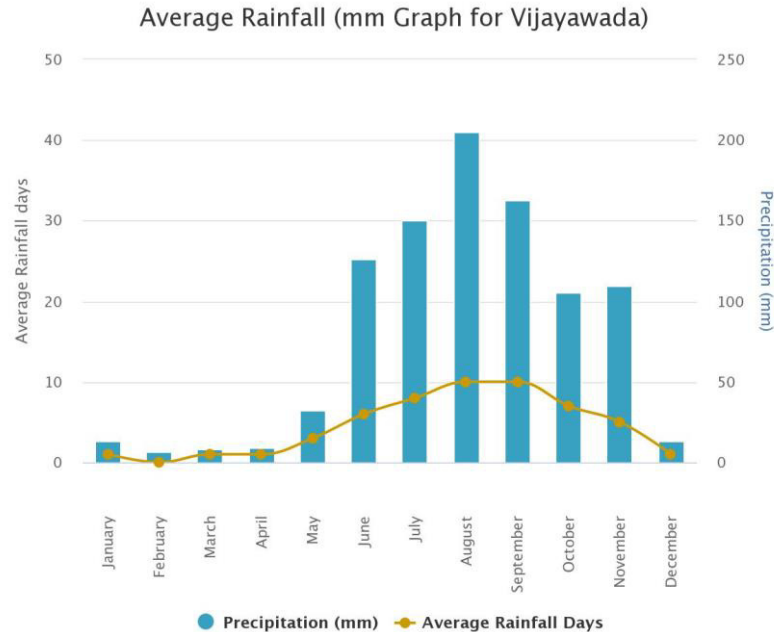


WorldWeatherOnline.com

Humidity at KVSr Siddhartha College of Pharmaceutical Sciences, Vijayawada



Rainfall at KVSr Siddhartha College of Pharmaceutical Sciences, Vijayawada



AIR QUALITY AT KVSRSOPS



Sri Durga Envirocare

(An NABL ACCREDITED LABORATORY)

AN ADVANCED ENVIRONMENTAL POLLUTION MONITORING MANAGEMENT CENTRE



REF: SDEC/KVSR/AAQ/2022
URL No.TC100772022000000075

Date: 04-02-2023

TEST REPORT

AMBIENT AIR QUALITY DATA

Name of the Industry : M/s. KVSR Siddhartha College of Pharmaceutical Sciences
Address : Pinnamaneni Polyclinic Road,
Siddhartha Nagar,
Vijayawada - 520010

Date of Monitoring : 02-02-2023
Ambient Temperature : 34° C
Atmospheric condition : Clear Sky

Sl.No.	Location	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (mg/m ³)
1.	Near main gate inside the campus	61	38	2.8	22.4	0.21	1.9
3.	A.P.P.C.B Limits	100	60	80	80	2.0	0.4

PM₁₀ : Particulate Matter (size less than 10 µm)
PM_{2.5} : Particulate Matter (size less than 2.5 µm)
SO₂ : Sulphur Dioxide
NO_x : Oxides of Nitrogen



Authorised Signatory

K. Manohar
K. Manohar
Technical Manager

OUR MISSION : Our Aim is to Become The Most Economical, Efficient & Relible Testing Facility for Environment

Corporate Address
201 | Kakatiya Homes
S.V.S. Temple Street | Labbipet
VIJAYAWADA-520 010.

Lab Address
#10-136/19 | BMPS Road
Prasadampadu
VIJAYAWADA-521 108.

Contact
7092021868 | 9704126787
 sdenvirocare@gmail.com

NOISE LEVEL IN THE SURROUNDING OF KVSRSOPS



Sri Durga Envirocare

(An NABL ACCREDITED LABORATORY)

AN ADVANCED ENVIRONMENTAL POLLUTION MONITORING MANAGEMENT CENTRE



REF: SDEC/KVSR/SM/2022
URL No.TC100772022000000075

Date: 04-02-2023

TEST REPORT

NOISE LEVELS

Name of the Industry : M/s. KVSR Siddhartha College of Pharmaceutical Sciences
Address : Pinnamaneni Polyclinic Road,
Siddhartha Nagar,
Vijayawada - 520010

Sample Particulars : Noise Levels
Date of Monitoring : 02-02-2023

S. No	Location	Noise Levels dB(A)
1.	Main Gate	70.3
2.	Near Principal Office	61



Authorised Signatory

Kt. Manohar

K. Manohar
Technical Manager

OUR MISSION : Our Aim is to Become The Most Economical, Efficient & Reliable Testing Facility for Environment

Corporate Address
201 | Kakatiya Homes
S.V.S. Temple Street | Labbipet
VIJAYAWADA-520 010.

Lab Address
#10-136/19 | BMPS Road
Prasadampadu
VIJAYAWADA-521 108.

Contact
7092021868 | 9704126787
 sdenvirocare@gmail.com

WATER ANALYSIS REPORT OF KVSRSOPS

TEST REPORT

Name of the Customer: M/s. KVSr Siddhartha College of Pharmaceutical Science # Pinnamaneni Polyclinic Road, Siddhartha Nagar, Vijayawada.			
Reg. No.	2112579	URL: TR06012022015	
Date of Registration	30.12.2021	Date of Reporting	06.01.2022
Sample Name	Tap Water	Start Date	31.12.2021
Quantity	1 lt	Completed Date	05.01.2022
Sample Submitted by	Mrs. V. Anusha 6305523176	Sample Details	Pharmaceutical lab

TEST RESULT

S. No.	Test Parameters	Test Method	Unit of Measurement	Result	Specification As per IS 10500	
					Acceptable Limit	Permissible Limit
1.	E.coli	IS 15185 :2016	/100ml	Absent	Absent	Absent
2.	Total coli forms	IS 15185 :2016	/100ml	Absent	Absent	Absent
3.	Colour	IS 3025 (Part 4) :1983	Colour Units	< 1.0	Max. 5	Max. 15
4.	Odour	IS 3025 (Part 5) :2018	---	Agreeable	Agreeable	Agreeable
5.	Taste	IS 3025 (Part 8) :1984	---	Agreeable	Agreeable	Agreeable
6.	Turbidity	IS 3025 (Part 10) :1984	NTU	< 1.0	Max. 1	Max. 5
7.	Total Dissolved Solids	IS 3025 (Part 16) :1984	mg/l	438.00	Max. 500	Max. 2000
8.	pH	IS 3025 (Part 11) :1983	---	7.74	6.5 - 8.5	No relaxation
9.	Aluminium	IS 3025 (Part 2) :2004	mg/l	< 0.01	Max. 0.03	Max. 0.2
10.	Ammonia as N	IS 3025 (Part 34) :1988	mg/l	0.26	Max. 0.5	No relaxation
11.	Boron as B	IS 3025 (Part 2) :2004	mg/l	< 0.10	Max. 0.5	Max. 1.0
12.	Calcium as Ca	IS 3025 (Part 2) :2004	mg/l	45.85	Max. 75	Max. 200
13.	Chloride as Cl	EPA-300.0 :1993	mg/l	67.47	Max. 250	Max. 1000
14.	Copper	IS 3025 (Part 2) :2004	mg/l	< 0.01	Max. 0.05	Max. 1.5
15.	Fluoride as F	EPA-300.0 :1993	mg/l	0.17	Max. 1.0	Max. 1.5
16.	Residual free chloride	IS 3025 (Part 26) :1986	mg/l	< 0.1	Max. 0.2	Max. 1.0
17.	Iron as Fe	IS 3025 (Part 2) :2004	mg/l	< 0.01	Max. 0.3	Max. 0.3
18.	Magnesium as Mg	IS 3025 (Part 2) :2004	mg/l	22.74	Max. 30	Max. 100
19.	Nitrate as NO ₃	EPA-300.0 :1993	mg/l	2.97	Max. 45	Max. 45
20.	Sulphate as SO ₄	EPA-300.0 :1993	mg/l	53.73	Max. 200	Max. 400
21.	Sulphide as H ₂ S	IS 3025 (Part 29) :1986	mg/l	< 0.05	Max. 0.05	No relaxation
22.	Alkalinity as CaCO ₃	IS 3025 (Part 23) :1986	mg/l	198.00	Max. 200	Max. 600
23.	Total Hardness as CaCO ₃	IS 3025 (Part 21) :2009	mg/l	208.00	Max. 200	Max. 600
24.	Chromium as Cr	IS 3025 (Part 2) :2004	mg/l	< 0.01	Max. 0.05	No relaxation

- Remarks:**
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Signature of Analyst
Name: Mr. K. Prasad
Designation: Manager Microbiology

Signature of Analyst
Name: Mr. K. Manohar
Designation: Manager Chemical
Page 1 of 1

Authorized Signatory
Name: Ms. V. Swarna Kumari
Designation: Quality Manager

Accurate Labs

KVSr Siddhartha College of Pharmaceutical sciences, SPIIC Block, 3rd Floor, Pinnamaneni Polyclinic Road,
Siddhartha Nagar, Vijayawada - 520 010. Contact : 6301959631,
e-mail : aefal.labs@gmail.com, www. accuratelabs.in

TEST REPORT

Name of the Customer: M/s. KVSr Siddhartha College of Pharmaceutical Sciences # Pinnamaneni Polyclinic Road, Siddhartha Nagar, Vijayawada.			
Reg. No.	2112573	URL: TR06012022009	
Date of Registration	30.12.2021	Date of Reporting	06.01.2022
Sample Name	Drinking Water	Start Date	31.12.2021
Quantity	1 lt	Completed Date	05.01.2022
Sample Submitted by	Mrs. V. Anusha 6305523176	Sample Details	Ground Floor

TEST RESULT

S. No.	Test Parameters	Test Method	Unit of Measurement	Result	Specification As per IS 10500	
					Acceptable Limit	Permissible Limit
1.	E.coli	IS 15185 :2016	/100ml	Absent	Absent	Absent
2.	Total coli forms	IS 15185 :2016	/100ml	Absent	Absent	Absent
3.	Colour	IS 3025 (Part 4) :1983	Colour Units	< 1.0	Max. 5	Max. 15
4.	Odour	IS 3025 (Part 5) :2018	---	Agreeable	Agreeable	Agreeable
5.	Taste	IS 3025 (Part 8) :1984	---	Agreeable	Agreeable	Agreeable
6.	Turbidity	IS 3025 (Part 10) :1984	NTU	< 1.0	Max. 1	Max. 5
7.	Total Dissolved Solids	IS 3025 (Part 16) :1984	mg/l	361.00	Max. 500	Max. 2000
8.	pH	IS 3025 (Part 11) :1983	---	7.85	6.5 - 8.5	No relaxation
9.	Aluminium	IS 3025 (Part 2) :2004	mg/l	< 0.01	Max. 0.03	Max. 0.2
10.	Ammonia as N	IS 3025 (Part 34) :1988	mg/l	0.29	Max. 0.5	No relaxation
11.	Boron as B	IS 3025 (Part 2) :2004	mg/l	< 0.10	Max. 0.5	Max. 1.0
12.	Calcium as Ca	IS 3025 (Part 2) :2004	mg/l	45.85	Max. 75	Max. 200
13.	Chloride as Cl	EPA-300.0 :1993	mg/l	65.15	Max. 250	Max. 1000
14.	Copper	IS 3025 (Part 2) :2004	mg/l	< 0.01	Max. 0.05	Max. 1.5
15.	Fluoride as F	EPA-300.0 :1993	mg/l	0.14	Max. 1.0	Max. 1.5
16.	Residual free chloride	IS 3025 (Part 26) :1986	mg/l	< 0.1	Max. 0.2	Max. 1.0
17.	Iron as Fe	IS 3025 (Part 2) :2004	mg/l	< 0.01	Max. 0.3	Max. 0.3
18.	Magnesium as Mg	IS 3025 (Part 2) :2004	mg/l	25.22	Max. 30	Max. 100
19.	Nitrate as NO ₃	EPA-300.0 :1993	mg/l	2.70	Max. 45	Max. 45
20.	Sulphate as SO ₄	EPA-300.0 :1993	mg/l	46.36	Max. 200	Max. 400
21.	Sulphide as H ₂ S	IS 3025 (Part 29) :1986	mg/l	< 0.05	Max. 0.05	No relaxation
22.	Alkalinity as CaCO ₃	IS 3025 (Part 23) :1986	mg/l	168.3	Max. 200	Max. 600
23.	Total Hardness as CaCO ₃	IS 3025 (Part 21) :2009	mg/l	218.4	Max. 200	Max. 600
24.	Chromium as Cr	IS 3025 (Part 2) :2004	mg/l	< 0.01	Max. 0.05	No relaxation

Remarks:

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Signature of Analyst

Name: Mr. K. Prasad

Designation: Manager Microbiology

Signature of Analyst

Name: Mr. K. Manohar

Designation: Manager Chemical

Authorized Signatory

Name: Ms. V. Swarna Kumari

Designation: Quality Manager

Page 1 of 1

Accurate Labs

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Siddhartha Nagar, Vijayawada - 520 010. Contact : 6301959631,
e-mail : aefal.labs@gmail.com, www. accuratelabs.in

TEST REPORT

Name of the Customer: M/s. KVSRR Siddhartha College of Pharmaceutical Sciences # Pinnamaneni Polyclinic Road, Siddhartha Nagar, Vijayawada.			
Reg. No.	2112577	URL: TR06012022013	
Date of Registration	30.12.2021	Date of Reporting	06.01.2022
Sample Name	Bore Water	Start Date	31.12.2021
Quantity	1 lt	Completed Date	05.01.2022
Sample Submitted by	Mrs. V. Anusha 6305523176	Sample Details	Tank

TEST RESULT

S. No.	Test Parameters	Test Method	Unit of Measurement	Result	Specification As per IS 10500	
					Acceptable Limit	Permissible Limit
1.	E.coli	IS 15185 :2016	/100ml	Absent	Absent	Absent
2.	Total coli forms	IS 15185 :2016	/100ml	Absent	Absent	Absent
3.	Colour	IS 3025 (Part 4) :1983	Colour Units	< 1.0	Max. 5	Max. 15
4.	Odour	IS 3025 (Part 5) :2018	---	Agreeable	Agreeable	Agreeable
5.	Taste	IS 3025 (Part 8) :1984	---	Agreeable	Agreeable	Agreeable
6.	Turbidity	IS 3025 (Part 10) :1984	NTU	8.4	Max. 1	Max. 5
7.	Total Dissolved Solids	IS 3025 (Part 16) :1984	mg/l	301.00	Max. 500	Max. 2000
8.	pH	IS 3025 (Part 11) :1983	---	7.42	6.5 - 8.5	No relaxation
9.	Aluminium	IS 3025 (Part 2) :2004	mg/l	< 0.01	Max. 0.03	Max. 0.2
10.	Ammonia as N	IS 3025 (Part 34) :1988	mg/l	0.68	Max. 0.5	No relaxation
11.	Boron as B	IS 3025 (Part 2) :2004	mg/l	< 0.10	Max. 0.5	Max. 1.0
12.	Calcium as Ca	IS 3025 (Part 2) :2004	mg/l	41.68	Max. 75	Max. 200
13.	Chloride as Cl	EPA-300.0 :1993	mg/l	66.56	Max. 250	Max. 1000
14.	Copper	IS 3025 (Part 2) :2004	mg/l	< 0.01	Max. 0.05	Max. 1.5
15.	Fluoride as F	EPA-300.0 :1993	mg/l	< 0.1	Max. 1.0	Max. 1.5
16.	Residual free chloride	IS 3025 (Part 26) :1986	mg/l	< 0.1	Max. 0.2	Max. 1.0
17.	Iron as Fe	IS 3025 (Part 2) :2004	mg/l	< 0.01	Max. 0.3	Max. 0.3
18.	Magnesium as Mg	IS 3025 (Part 2) :2004	mg/l	22.74	Max. 30	Max. 100
19.	Nitrate as NO ₃	EPA-300.0 :1993	mg/l	2.61	Max. 45	Max. 45
20.	Sulphate as SO ₄	EPA-300.0 :1993	mg/l	57.62	Max. 200	Max. 400
21.	Sulphide as H ₂ S	IS 3025 (Part 29) :1986	mg/l	< 0.05	Max. 0.05	No relaxation
22.	Alkalinity as CaCO ₃	IS 3025 (Part 23) :1986	mg/l	158.4	Max. 200	Max. 600
23.	Total Hardness as CaCO ₃	IS 3025 (Part 21) :2009	mg/l	197.6	Max. 200	Max. 600
24.	Chromium as Cr	IS 3025 (Part 2) :2004	mg/l	< 0.01	Max. 0.05	No relaxation

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Signature of Analyst
Name: Mr. K. Prasad
Designation: Manager Microbiology

Signature of Analyst
Name: Mr. K. Manohar
Designation: Manager Chemical
Page 1 of 1

Authorized Signatory
Name: Ms. V. Swarna Kumari
Designation: Quality Manager

Accurate Labs

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Siddhartha Nagar, Vijayawada - 520 010. Contact : 6301959631,
e-mail : aefal.labs@gmail.com, www. accuratelabs.in

TEST REPORT

Name of the Customer: M/s. KVSr Siddhartha College of Pharmaceutical Sciences # Pinnamaneni Polyclinic Road, Siddhartha Nagar, Vijayawada.			
Reg. No.	2112573	URL: TR06012022009	
Date of Registration	30.12.2021	Date of Reporting	06.01.2022
Sample Name	Drinking Water	Start Date	31.12.2021
Quantity	1 lt	Completed Date	05.01.2022
Sample Submitted by	Mrs. V. Anusha 6305523176	Sample Details	Ground Floor

TEST RESULT

S. No.	Test Parameters	Test Method	Unit of Measurement	Result	Specification As per IS 10500	
					Acceptable Limit	Permissible Limit
1.	E.coli	IS 15185 :2016	/100ml	Absent	Absent	Absent
2.	Total coli forms	IS 15185 :2016	/100ml	Absent	Absent	Absent
3.	Colour	IS 3025 (Part 4) :1983	Colour Units	< 1.0	Max. 5	Max. 15
4.	Odour	IS 3025 (Part 5) :2018	---	Agreeable	Agreeable	Agreeable
5.	Taste	IS 3025 (Part 8) :1984	---	Agreeable	Agreeable	Agreeable
6.	Turbidity	IS 3025 (Part 10) :1984	NTU	< 1.0	Max. 1	Max. 5
7.	Total Dissolved Solids	IS 3025 (Part 16) :1984	mg/l	361.00	Max. 500	Max. 2000
8.	pH	IS 3025 (Part 11) :1983	---	7.85	6.5 - 8.5	No relaxation
9.	Aluminium	IS 3025 (Part 2) :2004	mg/l	< 0.01	Max. 0.03	Max. 0.2
10.	Ammonia as N	IS 3025 (Part 34) :1988	mg/l	0.29	Max. 0.5	No relaxation
11.	Boron as B	IS 3025 (Part 2) :2004	mg/l	< 0.10	Max. 0.5	Max. 1.0
12.	Calcium as Ca	IS 3025 (Part 2) :2004	mg/l	45.85	Max. 75	Max. 200
13.	Chloride as Cl	EPA-300.0 :1993	mg/l	65.15	Max. 250	Max. 1000
14.	Copper	IS 3025 (Part 2) :2004	mg/l	< 0.01	Max. 0.05	Max. 1.5
15.	Fluoride as F	EPA-300.0 :1993	mg/l	0.14	Max. 1.0	Max. 1.5
16.	Residual free chloride	IS 3025 (Part 26) :1986	mg/l	< 0.1	Max. 0.2	Max. 1.0
17.	Iron as Fe	IS 3025 (Part 2) :2004	mg/l	< 0.01	Max. 0.3	Max. 0.3
18.	Magnesium as Mg	IS 3025 (Part 2) :2004	mg/l	25.22	Max. 30	Max. 100
19.	Nitrate as NO ₃	EPA-300.0 :1993	mg/l	2.70	Max. 45	Max. 45
20.	Sulphate as SO ₄	EPA-300.0 :1993	mg/l	46.36	Max. 200	Max. 400
21.	Sulphide as H ₂ S	IS 3025 (Part 29) :1986	mg/l	< 0.05	Max. 0.05	No relaxation
22.	Alkalinity as CaCO ₃	IS 3025 (Part 23) :1986	mg/l	168.3	Max. 200	Max. 600
23.	Total Hardness as CaCO ₃	IS 3025 (Part 21) :2009	mg/l	218.4	Max. 200	Max. 600
24.	Chromium as Cr	IS 3025 (Part 2) :2004	mg/l	< 0.01	Max. 0.05	No relaxation

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Signature of Analyst

Name: Mr. K. Prasad

Designation: Manager Microbiology

Signature of Analyst

Name: Mr. K. Manohar

Designation: Manager Chemical

Authorized Signatory

Name: Ms. V. Swarna Kumari

Designation: Quality Manager

Page 1 of 1

Accurate Labs

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Siddhartha Nagar, Vijayawada - 520 010. Contact : 6301959631,
e-mail : aefal.labs@gmail.com, www. accuratelabs.in

TEST REPORT

Name of the Customer: M/s. KVSRR Siddhartha College of Pharmaceutical Sciences # Pinnamaneni Polyclinic Road, Siddhartha Nagar, Vijayawada.			
Reg. No.	2112574	URL: TR06012022010	
Date of Registration	30.12.2021	Date of Reporting	06.01.2022
Sample Name	Drinking Water	Start Date	31.12.2021
Quantity	1 lt	Completed Date	05.01.2022
Sample Submitted by	Mrs. V. Anusha 6305523176	Sample Details	First floor

TEST RESULT

S. No.	Test Parameters	Test Method	Unit of Measurement	Result	Specification As per IS 10500	
					Acceptable Limit	Permissible Limit
1.	E.coli	IS 15185 :2016	/100ml	Absent	Absent	Absent
2.	Total coli forms	IS 15185 :2016	/100ml	Absent	Absent	Absent
3.	Colour	IS 3025 (Part 4) :1983	Colour Units	< 1.0	Max. 5	Max. 15
4.	Odour	IS 3025 (Part 5) :2018	---	Agreeable	Agreeable	Agreeable
5.	Taste	IS 3025 (Part 8) :1984	---	Agreeable	Agreeable	Agreeable
6.	Turbidity	IS 3025 (Part 10) :1984	NTU	< 1.0	Max. 1	Max. 5
7.	Total Dissolved Solids	IS 3025 (Part 16) :1984	mg/l	377.00	Max. 500	Max. 2000
8.	pH	IS 3025 (Part 11) :1983	---	7.88	6.5 - 8.5	No relaxation
9.	Aluminium	IS 3025 (Part 2) :2004	mg/l	< 0.01	Max. 0.03	Max. 0.2
10.	Ammonia as N	IS 3025 (Part 34) :1988	mg/l	0.27	Max. 0.5	No relaxation
11.	Boron as B	IS 3025 (Part 2) :2004	mg/l	< 0.10	Max. 0.5	Max. 1.0
12.	Calcium as Ca	IS 3025 (Part 2) :2004	mg/l	45.85	Max. 75	Max. 200
13.	Chloride as Cl	EPA-300.0 :1993	mg/l	59.52	Max. 250	Max. 1000
14.	Copper	IS 3025 (Part 2) :2004	mg/l	< 0.01	Max. 0.05	Max. 1.5
15.	Fluoride as F	EPA-300.0 :1993	mg/l	0.11	Max. 1.0	Max. 1.5
16.	Residual free chloride	IS 3025 (Part 26) :1986	mg/l	< 0.1	Max. 0.2	Max. 1.0
17.	Iron as Fe	IS 3025 (Part 2) :2004	mg/l	< 0.01	Max. 0.3	Max. 0.3
18.	Magnesium as Mg	IS 3025 (Part 2) :2004	mg/l	25.22	Max. 30	Max. 100
19.	Nitrate as NO ₃	EPA-300.0 :1993	mg/l	2.75	Max. 45	Max. 45
20.	Sulphate as SO ₄	EPA-300.0 :1993	mg/l	49.71	Max. 200	Max. 400
21.	Sulphide as H ₂ S	IS 3025 (Part 29) :1986	mg/l	< 0.05	Max. 0.05	No relaxation
22.	Alkalinity as CaCO ₃	IS 3025 (Part 23) :1986	mg/l	198.00	Max. 200	Max. 600
23.	Total Hardness as CaCO ₃	IS 3025 (Part 21) :2009	mg/l	218.4	Max. 200	Max. 600
24.	Chromium as Cr	IS 3025 (Part 2) :2004	mg/l	< 0.01	Max. 0.05	No relaxation

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Signature of Analyst
Name: Mr. K. Prasad

Designation: Manager Microbiology

Signature of Analyst
Name: Mr.K. Manohar

Designation: Manager Chemical

Signature of Analyst
Name: Ms. V. Swarna Kumari

Designation: Quality Manager

Page 1 of 1

Accurate Labs

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Siddhartha Nagar, Vijayawada - 520 010. Contact : 6301959631,
e-mail : aefal.labs@gmail.com, www. accuratelabs.in

TEST REPORT

Name of the Customer: M/s. KVSRR Siddhartha College of Pharmaceutical Sciences # Pinnamaneni Polyclinic Road, Siddhartha Nagar, Vijayawada.			
Reg. No.	2112576	URL: TR06012022012	
Date of Registration	30.12.2021	Date of Reporting	06.01.2022
Sample Name	Bore Water	Start Date	31.12.2021
Quantity	1 lt	Completed Date	05.01.2022
Sample Submitted by	Mrs. V. Anusha 6305523176	Sample Details	Security Room

TEST RESULT

S. No.	Test Parameters	Test Method	Unit of Measurement	Result	Specification As per IS 10500	
					Acceptable Limit	Permissible Limit
1.	E.coli	IS 15185 :2016	/100ml	Absent	Absent	Absent
2.	Total coli forms	IS 15185 :2016	/100ml	Absent	Absent	Absent
3.	Colour	IS 3025 (Part 4) :1983	Colour Units	< 1.0	Max. 5	Max. 15
4.	Odour	IS 3025 (Part 5) :2018	---	Agreeable	Agreeable	Agreeable
5.	Taste	IS 3025 (Part 8) :1984	---	Agreeable	Agreeable	Agreeable
6.	Turbidity	IS 3025 (Part 10) :1984	NTU	< 1.0	Max. 1	Max. 5
7.	Total Dissolved Solids	IS 3025 (Part 16) :1984	mg/l	813.00	Max. 500	Max. 2000
8.	pH	IS 3025 (Part 11) :1983	---	7.09	6.5 - 8.5	No relaxation
9.	Aluminium	IS 3025 (Part 2) :2004	mg/l	< 0.01	Max. 0.03	Max. 0.2
10.	Ammonia as N	IS 3025 (Part 34) :1988	mg/l	1.48	Max. 0.5	No relaxation
11.	Boron as B	IS 3025 (Part 2) :2004	mg/l	< 0.10	Max. 0.5	Max. 1.0
12.	Calcium as Ca	IS 3025 (Part 2) :2004	mg/l	45.85	Max. 75	Max. 200
13.	Chloride as Cl	EPA-300.0 :1993	mg/l	180.76	Max. 250	Max. 1000
14.	Copper	IS 3025 (Part 2) :2004	mg/l	< 0.01	Max. 0.05	Max. 1.5
15.	Fluoride as F	EPA-300.0 :1993	mg/l	0.44	Max. 1.0	Max. 1.5
16.	Residual free chloride	IS 3025 (Part 26) :1986	mg/l	< 0.1	Max. 0.2	Max. 1.0
17.	Iron as Fe	IS 3025 (Part 2) :2004	mg/l	< 0.01	Max. 0.3	Max. 0.3
18.	Magnesium as Mg	IS 3025 (Part 2) :2004	mg/l	75.83	Max. 30	Max. 100
19.	Nitrate as NO ₃	EPA-300.0 :1993	mg/l	2.31	Max. 45	Max. 45
20.	Sulphate as SO ₄	EPA-300.0 :1993	mg/l	67.55	Max. 200	Max. 400
21.	Sulphide as H ₂ S	IS 3025 (Part 29) :1986	mg/l	< 0.05	Max. 0.05	No relaxation
22.	Alkalinity as CaCO ₃	IS 3025 (Part 23) :1986	mg/l	485.1	Max. 200	Max. 600
23.	Total Hardness as CaCO ₃	IS 3025 (Part 21) :2009	mg/l	426.4	Max. 200	Max. 600
24.	Chromium as Cr	IS 3025 (Part 2) :2004	mg/l	< 0.01	Max. 0.05	No relaxation

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Signature of Analyst

Name: Mr. K. Prasad

Designation: Manager Microbiology

Signature of Analyst

Name: Mr. K. Manohar

Designation: Manager Chemical

Authorized Signatory

Name: Ms. V. Swarna Kumari

Designation: Quality Manager

Page 1 of 1

Accurate Labs

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**KVSR Siddhartha college of Pharmaceutical Sciences
Siddhartha Nagar, Vijayawada-10**

Municipal Water Consumption Details

Month	Consumption in Kilo Litres				
	2018	2019	2020	2021	2022
January	11	35	18	11	11
February	16	25	20	11	19
March	15	20	14	11	23
April	18	20	0	12	23
May	16	22	0	11	20
June	20	20	0	16	11
July	22	22	0	19	11
August	25	24	0	20	
September	30	22	25	10	
October	35	20	30	12	
November	0	18	17	18	
December	0	20	15	15	

EXPENDITURE ON GREEN INITIATIVES DURING THE LAST FIVE YEARS

EXPENDITURE ON GREEN INITIATIVES DURING THE LAST FIVE YEARS

Financial year	Garden	Electrical	Renewable	Total (in
----------------	--------	------------	-----------	-----------

	maintenance (amount in Rs)	maintenance	sources (Solar Panels)	Rs)
2017-2018	2080	-		
2018-2019	NIL	26525		
2019-2020	33770	50682		
2020-2021	3105	23501		
2021-2022	33160	145208		
2022-2023	8300	146597	25 Laos	

