

GREEN AUDIT REPORT

of

Dr. B.R AMBEDKAR OPEN UNIVERSITY

G Ram Reddy Marg, Masthan Nagar,

CBI Colony, Jubilee Hills, Hyderabad,

Telangana 500033



Year: 2021-22

Prepared by:

HYM International Certifications Pvt Ltd

P.No. 163A, Flat No. 201,

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Praveen
Authorized Signatory
Director, CIQA
Dr. B.R. Ambedkar Open University
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Certificate

HYM International Certifications Pvt. Ltd.

Certified that the Environmental Management System of

Dr.B.R. AMBEDKAR OPEN UNIVERSITY

Prof.G. Ram Reddy Marg, Road No:46, Jubilee Hills, Hyderabad - 500 033,
Telangana State, India

has been assessed and found to be in accordance with the requirements of the environmental standards

ISO 14001 : 2015

for the following scope of certification

IMPLEMENTATION OF GREENERY AND ENVIRONMENTAL PROMOTION ACTIVITIES

Further information about the scope of this certificate and applicability of ISO 14001 : 2015 requirements may be obtained by consulting the organization.

Issue Date : 17/10/2022

1st Surveillance : 16/10/2023

Renewal Date : 16/10/2025

2nd Surveillance : 16/10/2024



Authorized Signature

Certificate No : **E91864140193**

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NOTE: This Certificate is Valid From 17/10/2022 to 16/10/2025

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Date:10/6/2021

CERTIFICATE

This is to certify that we have conducted **Green Audit** at Dr. B.R Ambedkar Open University, G Ram Reddy Marg, Masthan Nagar, CBI Colony, Jubilee Hills, Hyderabad, Telangana 500033 in the year 2021-22.

The University has already adopted following **Greenpractices**:

- Usage of Energy Efficient LED Fittings
- Maximum Usage of Day Lighting in the campus
- Installation of **13625 LPD** Solar Thermal Water Heating System.
- Construction of Farmpond
- Rain Water Harvesting Project for making use of rain water falling on terrace
- Segregation of Recyclable Waste atsource

We appreciate the support of Management and involvement of faculty members and staff members in the process of making the campus Energy Efficient and Green.

For HYM International Certifications Pvt Ltd,

Certified Energy Auditor
EA-8192



Alkoteswari Rao

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ACKNOWLEDGEMENT

We HYM International Certifications Pvt Ltd, Hyderabad, express our sincere gratitude to the management of **Dr B.R Ambedkar Open University; Hyderabad** was awarding us the assignment of Green Audit of Dr. B.R Ambedkar Open University, Campus for the year 2021-22.

We are thankful to:

- Prof. K. Seetharama Rao, Vice chancellor
- Dr. A. V. N. Reddy, Registrar
- Prof. P. Madhusudhan Reddy, NAAC Coordinator
- Smt. K. Leela Laxma Reddy, President, Council for Green revolution

We are also thankful to other Staff members for helping us during the field study.

EXECUTIVE SUMMARY

After the field study & analysis, we present here with important observations made during the assignment of green audit.

1. Dr BR Ambedkar Open University, Hyderabad Energy in three forms namely: Electrical energy, diesel and LPG

2. Present Energy Consumption:

Parameter /value	Electrical Energy Consumed, kWh	LPG consumed, KG	Diesel consumed, Liters	CO ₂ Emissions, MT
Total	486373	348	1779	357.23
Maximum	42199	43.5	300	38.25
Minimum	31821	14.5	0	23.54
Average	37413	29	148.25	29.76

3. Energy Conservation Projects already installed:

- Usage of Energy Efficient LED fittings
- Usage of Maximum Day Lighting
- Installation of **2500 LPD** Solar Thermal Water Heating System

4. Usage of Renewable Energy:

- The University has installed a **2500 LPD** Solar Thermal Water Heating System.
- The Percentage of usage of Renewable Energy to Annual Energy Demand is **17.29%**.
- The reduction in CO₂ emissions due to Solar Thermal Water Heating System is **32.37 MT/Annum**.

5. Waste Management:

5.1 Solar Waste Management:

- **Segregation of waste at source & Recycling:** The recyclable waste, like paper, board etc. is segregated at source. There are separate bins for collection at various points and is disposed of for further for recycling.
- **Vermi-Composting :** The University has vermi -Composting facility & about **36.5 MT** of Vermi compost is produced in a year

5.2 E - Waste Management:

- For E - Waste Management, the University follows the Methodology, as per the Government Regulations & it is disposed of by calling the tenders

5.3 Liquid Waste Management:

- It is recommended to go for a Sewage Treatment Plant, for recycling of the liquid waste.

6. Rain Water Harvesting:

The University has already installed Rain Water Harvesting Project in three ways:

- Constructing a two bund sof storage capacity **1.2 Million Liters**
- Farm Pond
- Proper channelizing the rain water falling on the terrace of main building & Library

7. Green Innovative Practices:

- **Smoke Free & Plastic Free Campus:** At various locations in the University campus boards are displayed, for making the Campus Smoke and Plastic Free.
- **Paperless Office:** The University has adopted a Software based system with respect to almost thirteen types of various operations involved on Day-to-Day basis
- **Green Cover in the Campus:** Out of total area of **22 acres**, almost **52 acres** of area is under Green Cover. The percentage of Green Cover is more than **90%**.

8. Eco Friendly & sustainable Initiatives:

- **Participation in Unnat Bharat Abhiyan:** The University is actively participating in the Unnat Bharat Abhiyan and community development activities are undertaken under this.
- **Participation In National service Scheme:** About 1200 plus students from affiliated Learning centers have carried out many activities like Tree Plantation, Water Conservation, Road construction in the adopted villages.

9. Assumptions:

1. **1 kWh** of Electrical Energy releases **0.9 Kg** of **CO₂** into atmosphere
2. **1 Kg** of **LPG** releases **2.93 Kg** of **CO₂** into atmosphere
3. **1 Liter** of **Diese** emits **2.68 Kg** **CO₂** into atmosphere.
4. Daily working hours-**7 to 12 Nos.**
5. Annual working Days-**250 to 385 Nos.**
6. Load Factor for use of Solar Thermal Water Heating System:**50%**

10. Recommendations:

1. Install Roof Top Solar PV Plant
2. Replace 600 No's T-5 Fittings by 20 W LED Fittings
3. To sat target of reduction in use of paper by about 5 % on year-to-year basis.
4. To install a Bio Sewage Treatment Plant.


11. References:

- For calculation of CO₂ Emissions:*****
- For Energy Saved by Solar Thermal Plant:*****

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ABBREVIATIONS

KWh	Kilo Watt Hour
kWp	Kilo Watt Peak
Kg	Kilogram
MT	Metric Ton
CO ₂	Carbon Di Oxide
LPD	Liters per Day
LPG	Liquefied Petroleum Gas
LED	Light Emitting Diode
Qty	Quantity
M	Meters
L	Length
B	Breadth
H	Height


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CHAPTER-I

INTRODUCTION

1.1 Objectives:

1. To study present level of Energy Consumption
2. To study the present CO2 emissions
3. To study usage of Renewable Energy
4. To study Waste Management: Solid, Liquid and e-waste.
5. To study Rain Water harvesting
6. To study Green and Innovative practices.

1.1 TableNo1:GeneralDetailsoftheUniversity:

No	Head	Particulars
1	Name of Institution	Dr. B.R. Ambedkar Open University
2	Address	G Ram Reddy Marg, Masthan Nagar, CBI Colony, Jubilee Hills, Hyderabad, Telangana 500033
3	Year of Establishment	1982
4	Academic Programs Offered	200 Plus


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CHAPTER-II

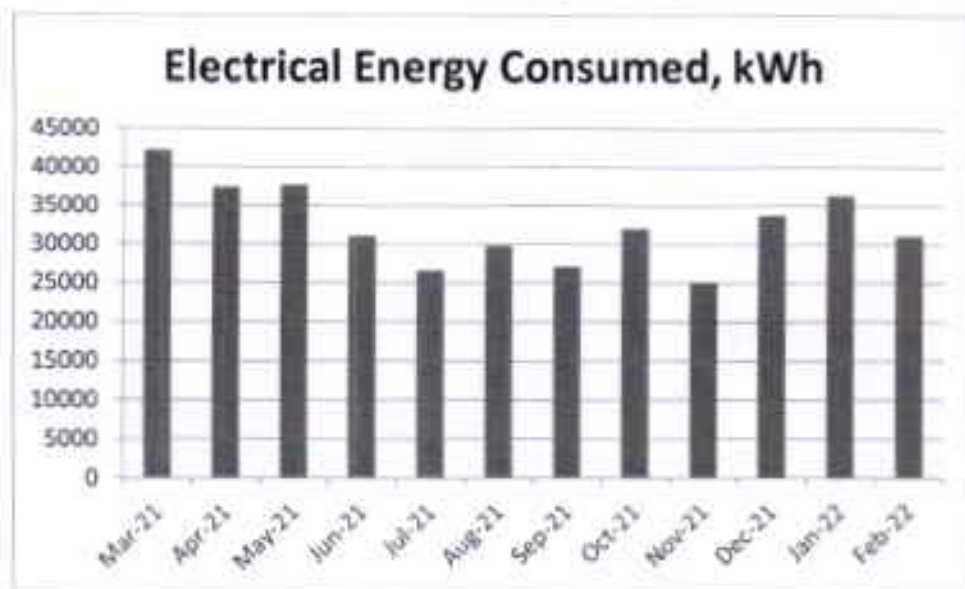
STUDY OF PRESENT ENERGY CONSUMPTION


In this Chapter, We present the analysis of last year Energy Consumption

2.1 Table No 2: Study of Electrical Energy, LPG and Diesel Consumption: 2021-22

No	Month	Electrical Energy Consumption, kWh	LPG Consumed, Kg	CO ₂ Emissions, MT
1	Mar-21	42199	43.5	38.25
2	Apr-21	37387	29	34.08
3	May-21	37640	29	34.82
4	Jun-21	31821	29	28.08
5	Jul-21	37734	43.5	24.17
6	Aug-21	38033	14.5	27.75
7	Sep-21	36659	29	24.63
8	Oct-21	38361	14.5	29.71
9	Nov-21	34227	29	23.54
10	Dec-21	33120	29	30.48
11	Jan-22	39775	14.5	33.59
12	Feb-22	42318	43.5	28.12
13	Mar-22	37099	28	24.17
14	Total	486373	348	357.23
15	Maximum	42199	43.5	38.25
16	Minimum	31821	14.5	23.54
17	Average	37413	29	29.76

2.2 To Study the Variation of Monthly Electrical Energy Consumption: Chart No: 1

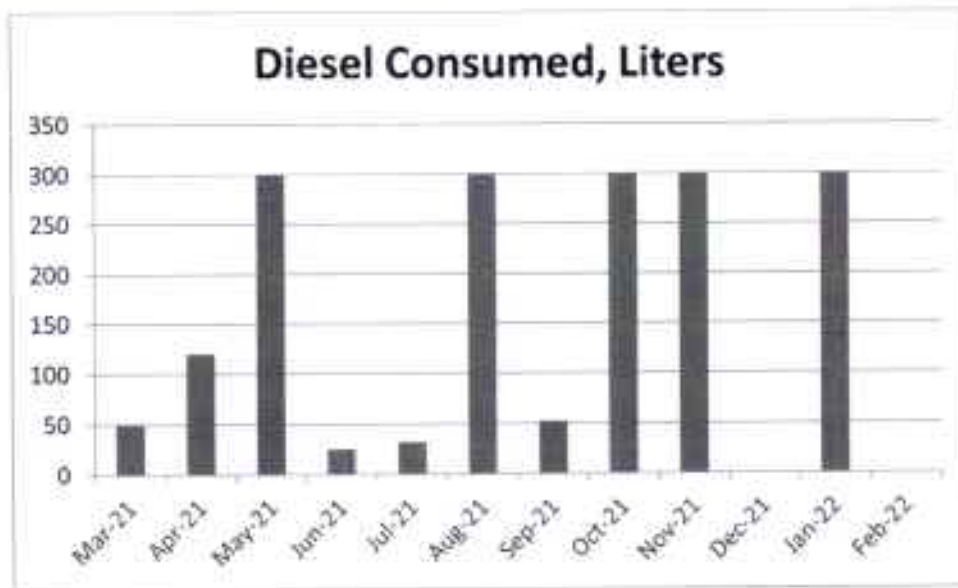



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2.3 Study of Month wise LPG Consumption: Chart No: 2



2.3 Study of Month wise Diesel Consumption: Chart No: 3



From the above analysis, we present following important parameters:

Table No 3: Variation in Important Parameters:

No	Parameter/ Value	Electrical Energy Consumed, kWh	LPG Consumed, Kg	Diesel Consumed, Liters
1	Total	486373	348	1779
2	Maximum	42199	43.5	300
3	Minimum	31821	14.5	0
4	Average	37413	29	148.25

CHAPTER-III CARBON FOOTPRINTING

A Carbon Foot Print is defined as the Total Greenhouse Gas emissions, emitted due to various activities. In this we compute the emissions of Carbon-Di-Oxide, by usage of the various forms of Energy used by the University for performing its day to day activities

The University uses three forms of Energy namely: Electrical Energy for various Electrical gadgets, LPG and Diesel.

Basis for computation of CO₂ Emissions:

The basis of Calculation for CO₂ emissions due to LPG & Electrical Energy are as under

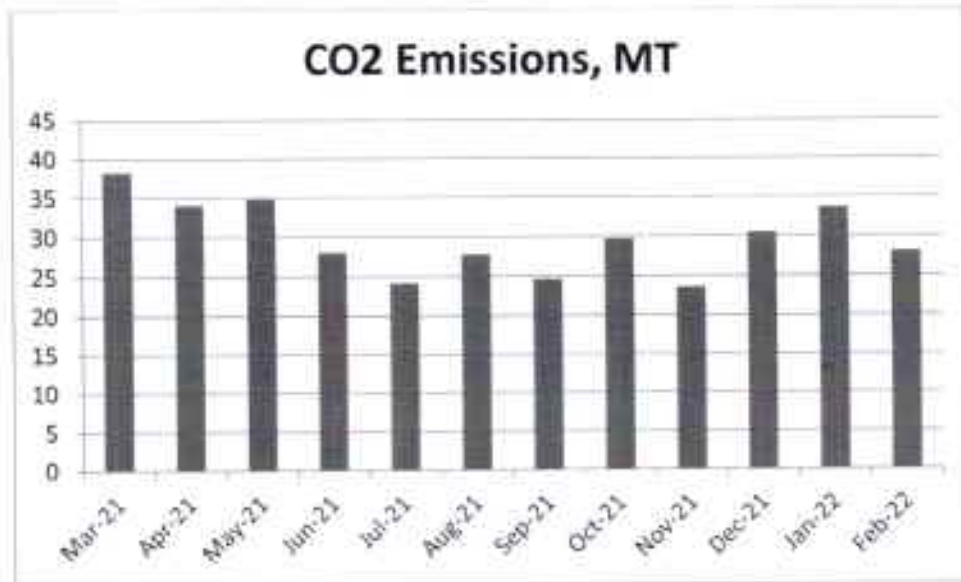
- 1 Unit (kWh) of Electrical Energy releases **0.9Kg** of CO₂ into atmosphere.
- 1 Kg of LPG releases **2.93 Kg** of CO₂ into atmosphere.
- 1 Liter of Diesel released **2.88 Kg** of CO₂ into atmosphere.

Based on the above Data we compute the CO₂ emissions which are being released in to the atmosphere by the University due to its Day to Day operations.

Table No 4: Month wise Energy Consumption & CO₂ Emissions

No	Month	Electrical Energy Consumption, kWh	LPG Consumed, Kg	Diesel Consumed, Liters	CO ₂ Emissions, MT
1	Mar-21	42199	43.5	50	38.25
2	Apr-21	37387	29	120	34.08
3	May-21	37640	29	300	34.82
4	Jun-21	31821	29	25	28.08
5	Jul-21	37734	43.5	32	24.17
6	Aug-21	38033	14.5	300	27.75
7	Sep-21	36659	29	52	24.63
8	Oct-21	38361	14.5	300	29.71
9	Nov-21	34227	29	300	23.54
10	Dec-21	33120	29	0	30.48
11	Jan-22	39775	14.5	300	33.59
12	Feb-22	42318	43.5	0	28.12
13	Mar-22	37099	28	300	24.17
14	Total	486373	348	1779	357.23
15	Maximum	42199	43.5	300	38.25
16	Minimum	31821	14.5	0	23.54
17	Average	37413	29	148.25	29.76

Representation of Month wise CO₂ Emissions: Chart No: 4



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CHAPTER-IV

STUDY OF RENEWABLE ENERGY INITIATIVES

The University has installed Solar Thermal Water Heating System. The details of installation are as under.

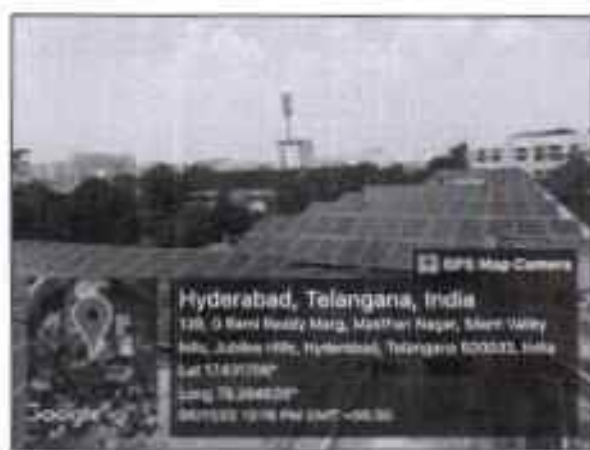
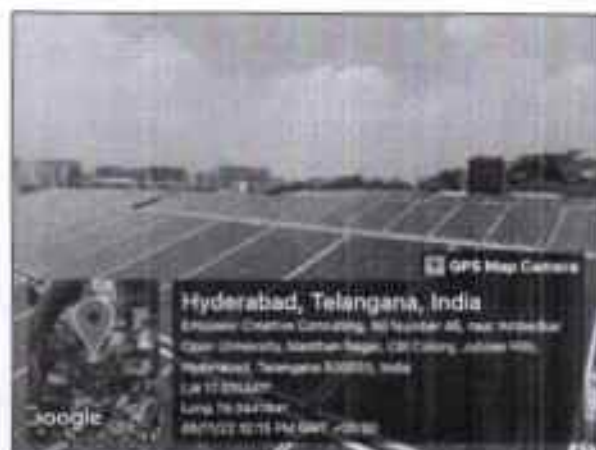
Table No 5: Details of Solar Thermal Water Heating System

No	Location	Capacity in LPD
1	Gust house Building	2500
	Total	2500

Table No 6: Percentage of usage of Alternative Energy:

No	Particulars	Value	Unit
1	Energy Purchased from TSSPDCL in the Year:2021-22	452682	kWh
2	Capacity of Solar Thermal Water Heating System	2500	LPD
3	Electrical Energy Saved by 100LPD Solar Thermal System per Annum	1500	kWh
4	For Calculations, we assume the Annual Energy saved in the year:2021-22	750	kWh
5	Annual Equivalent Energy Saved by Solar Thermal System	56677	kWh
6	Total Annual Electrical Energy Requirement =(1)+(5)	509359	kWh
7	Percent of Alternate Energy to Annual Energy Requirement=(6)*100/(7)	11.25	%

Photograph of Solar Thermal Water Heating System: at Yash Inn Facility



4.4 Computation of Reduction in CO₂ Emission: Table No 7

S No	Particulars	Value	Unit
1	Capacity of Solar Thermal Water Heating System	2500	LPD
2	Electrical Energy Saved by 100LPD Solar Thermal System per Annum	1500	kWh
3	For Calculations, we assume the Annual Energy saved in the year:2020-21	750	kWh
4	Annual Equivalent Energy Saved by Solar Thermal System	56677	kWh
5	1 kWh of Electrical Energy emits	0.9	Kg of CO ₂
6	Reduction in CO ₂ Emission by Solar Thermal Water Heating System	2.77	MT/Annum

CHAPTER-V

STUDY OF WASTE MANAGEMENT

5.1 Solid Waste Management

5.1.1 Recyclable Solid Waste Management

The recyclable waste, namely paper waste is segregated at the source of the generation. There are about 80plus bins for collection of waste placed at all strategic locations. This waste material is further given to Authorized Vender for further disposal & recycling.

Photograph of Waste Collection Bin:



5.1.2 Vermicomposting:

The University has almost 6 acres plantation. The University has installed a Vermi-Composting Plant and almost 100 MT of Vermi Compost is produced in this plant.

Photograph of Vermicomposting:



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5.2 E-Waste management:

The E Waste Includes: PCs, Printers, Pen drives, CDs etc.

For E-Waste management, the University follows the Methodology, as per the Government

Regulations & it is disposed of by calling the tenders, as per the Regulations.

CHAPTER-VI

STUDY OF RAIN WATER HARVESTING

The University has already implemented the Rain Water Harvesting Project by two ways.

Namely: Farm Pond and collecting the rain water from terrace

6.1 Construction of Water Ponds

The Dimensions of the Bund area: L=350m*B=15m*H=5m

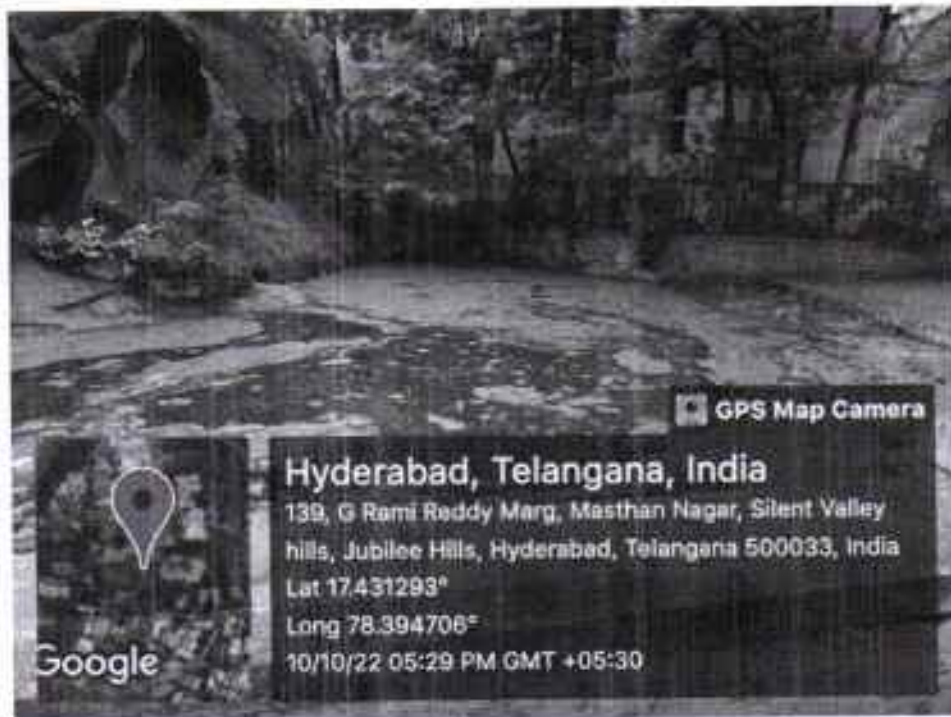
The total 3 Water Storage Capacity is about **1.4 Million Liters.**

The ponds was constructed with cost of **Rs.1.5Lakhs**

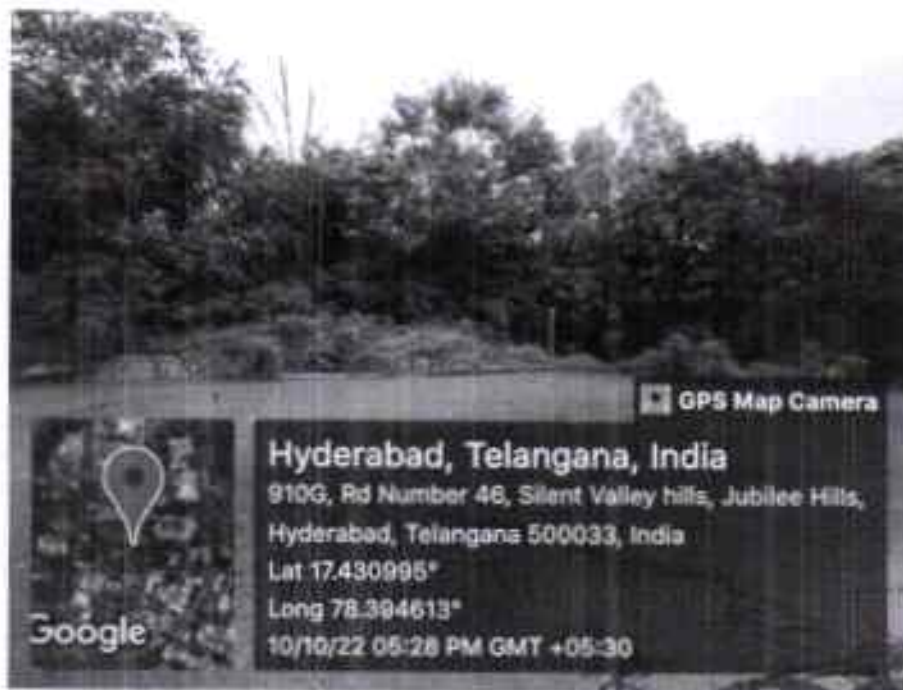
The water from these ponds is used for watering the plants and for the domestic use. Only

Drinking water is purchased from the HMWSSB.

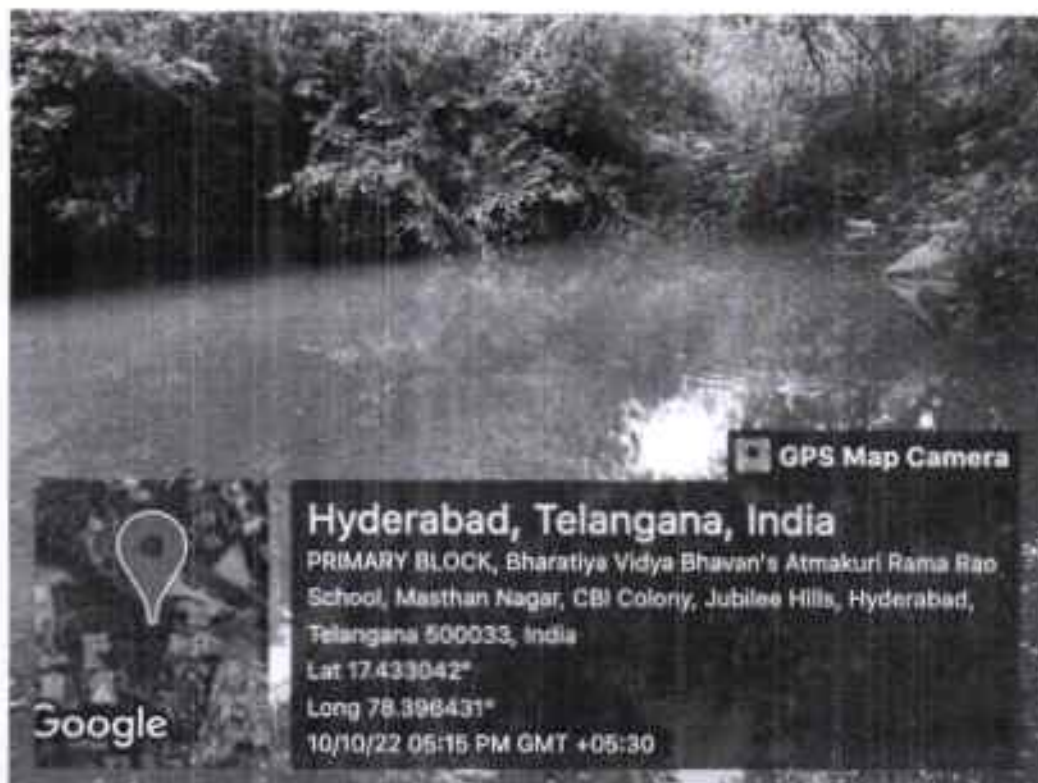
Photograph of Constructed water ponds :



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Photograph of natural water ponds :

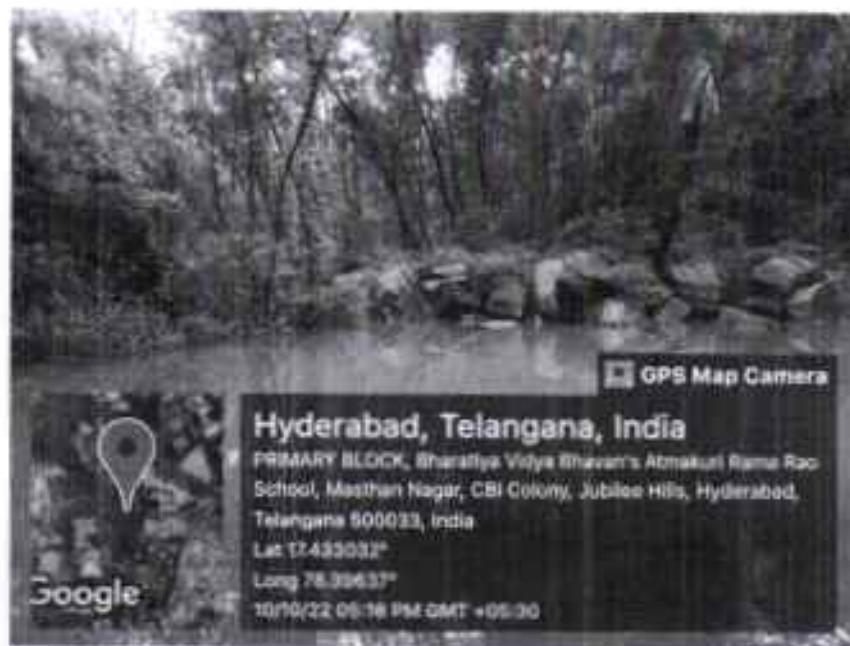


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6.2 Farm Pond:

The University has a farm pond which can store approximately 1.4 million liters of Water. This Farm Pond has helped the nearby farmers, as the underground water level has increased substantially due to this farm pond.

Photograph of Farm Pond:



6.3 Rain Water Harvesting from Terrace at Main Building:

The University has laid pipes to collect the Rain Water collected on the terrace of the University buildings. Separate water channels are built to further store this collected Water to ponds.

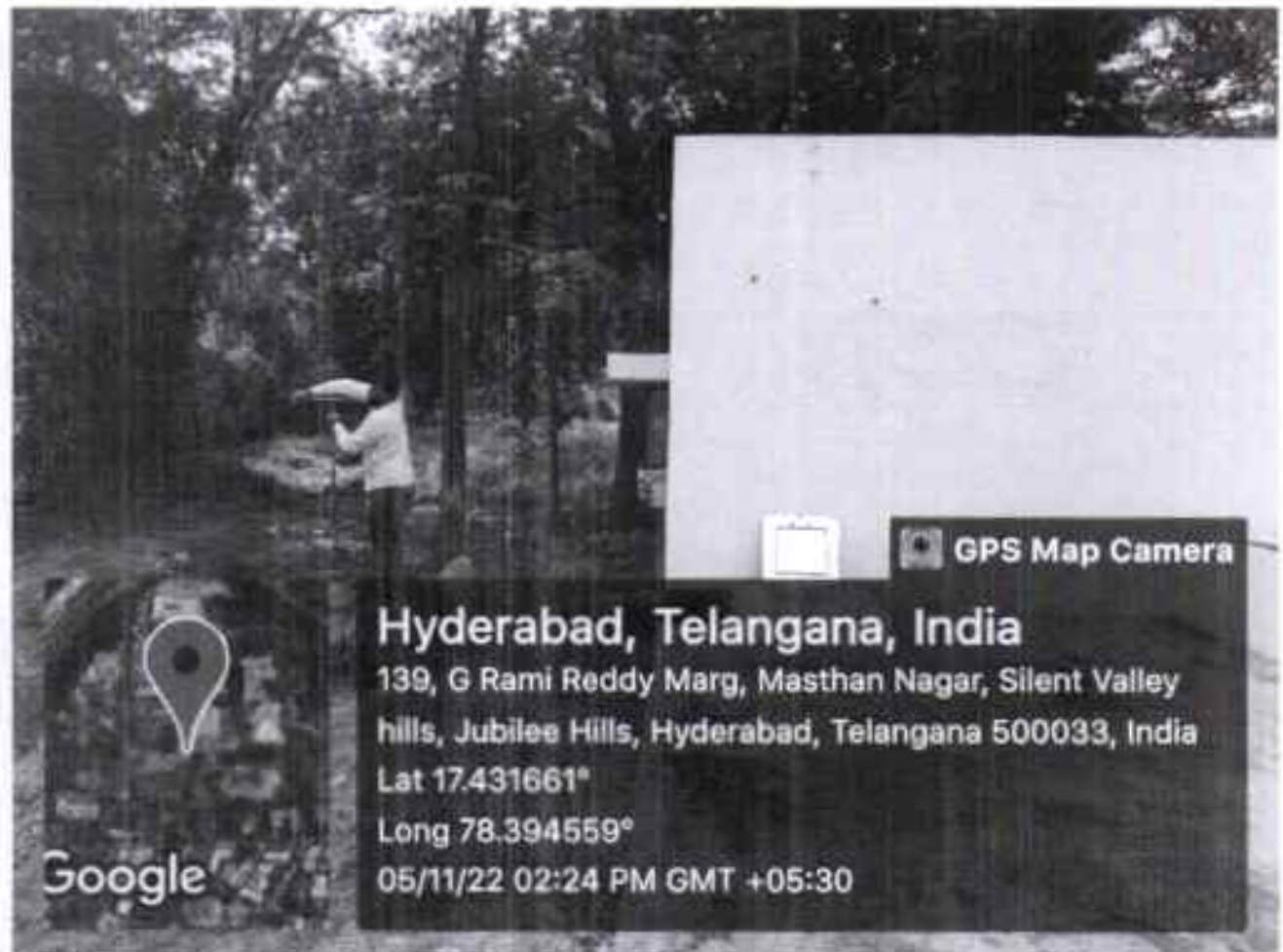
Photograph of Rain Water Collecting Pipe from Terrace:



6.4 Rain Water Harvesting from Terrace at Library Building:

The University has laid pipes to collect the Rain Water collected on the terrace of the Library building. This water is stored and in turn used for maintaining Lawn within the premises.

Photograph of Drinking water is purchased from the HMWSSB.



GPS Map Camera

Hyderabad, Telangana, India

139, G Rami Reddy Marg, Masthan Nagar, Silent Valley hills, Jubilee Hills, Hyderabad, Telangana 500033, India

Lat 17.431661°

Long 78.394559°

05/11/22 02:24 PM GMT +05:30

Google

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CHAPTER-VII

STUDY OF GREEN AND INNOVATIVE PRACTICES

7.1 Smoke Free Campus:

The entire campus is smoke free at common places boards are displayed appealing to keep the campus Smoke Free.

Photograph of Smoke Free Campus display board: Need the photo:



7.2 Plastic Free Campus:

The University is taking strict measures to keep the campus Plastic Free. At prominent places, boards are displayed to keep the campus Plastic Free.

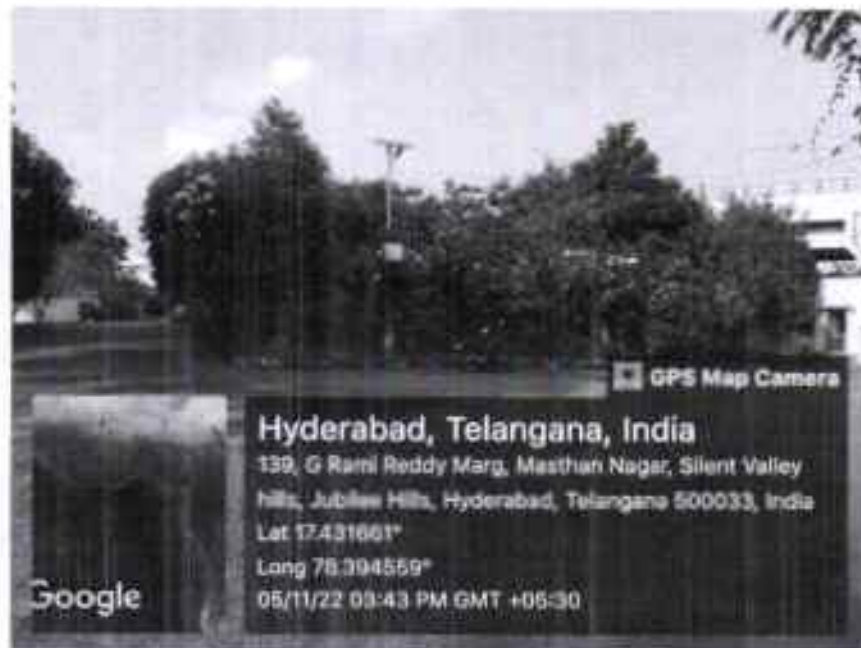
Photograph of Display board displaying Plastic Free campus at the main entrance:



7.3 Pedestrian Friendly Roads:

The University has well maintained roads as to facilitate the easy movement of the commuters within the campus.

Photograph of Internal Roads in the campus:



7.4 Paperless Office:

The University is taking various measures to make the Day-to-day operations Paper less. There about Thirteen sections/operations wherein software based solutions are adopted are:

- E-Books Down load
- YCMOU Regional Centers
- Finance
- Admission
- Results
- Migration
- Grievances
- Scanned copy of Marks list to name a few
- Revaluation of Answer Book
- E-Tenders

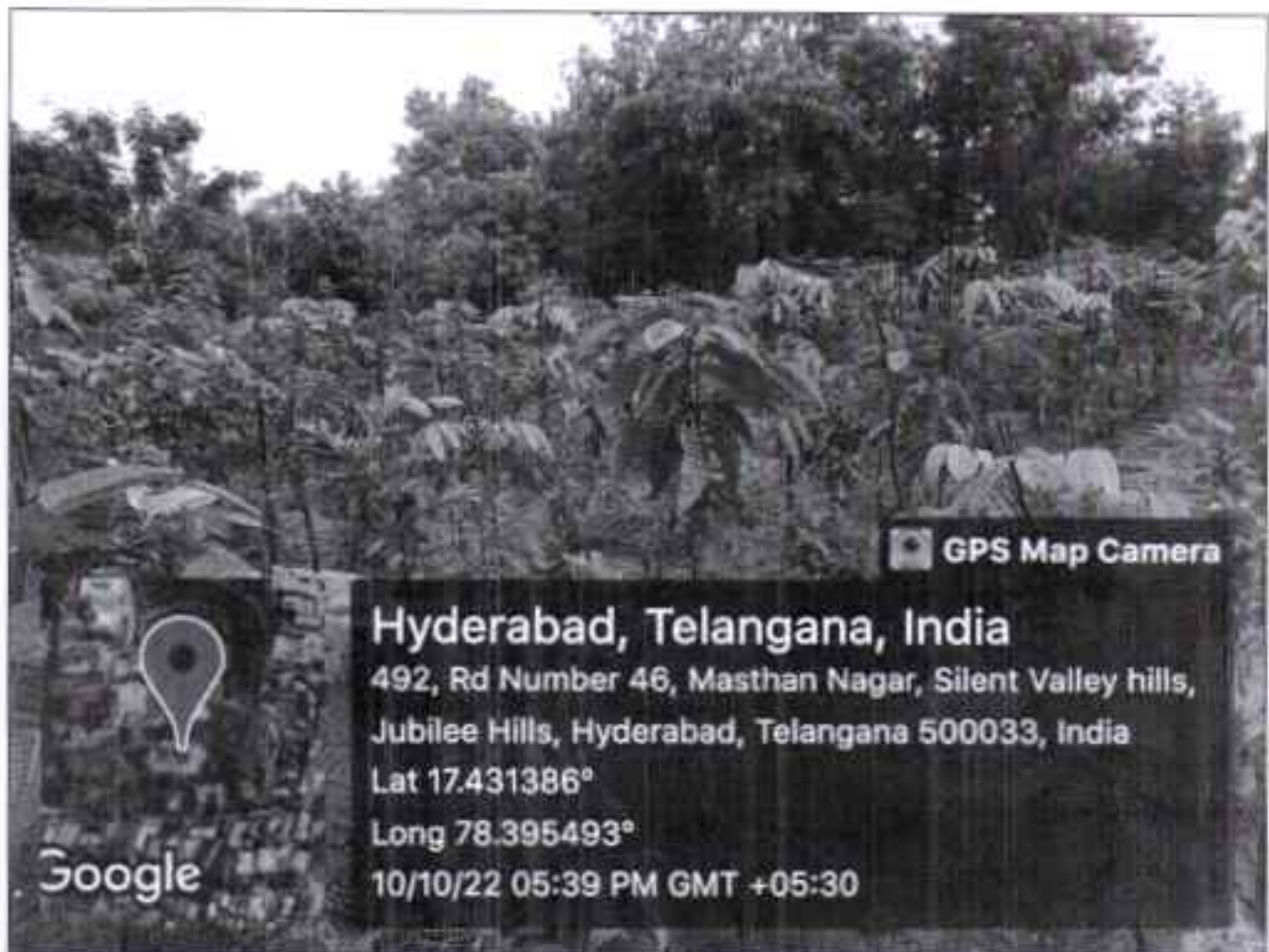
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7.5 Plantation in the Campus:

7.5.1 Miyawaki and Medicinal Garden:

The Council for Green Revolution, United Way of Hyderabad and H&R Block India Pvt Ltd organization are implemented Plantation programs in the campus. They were planted miyawaki and herbal gardens in the university High density plantation micro irrigation system low cost technologies etc.

Photograph of Plantation in the campus:



7.5.2 Landscaping of the Campus:

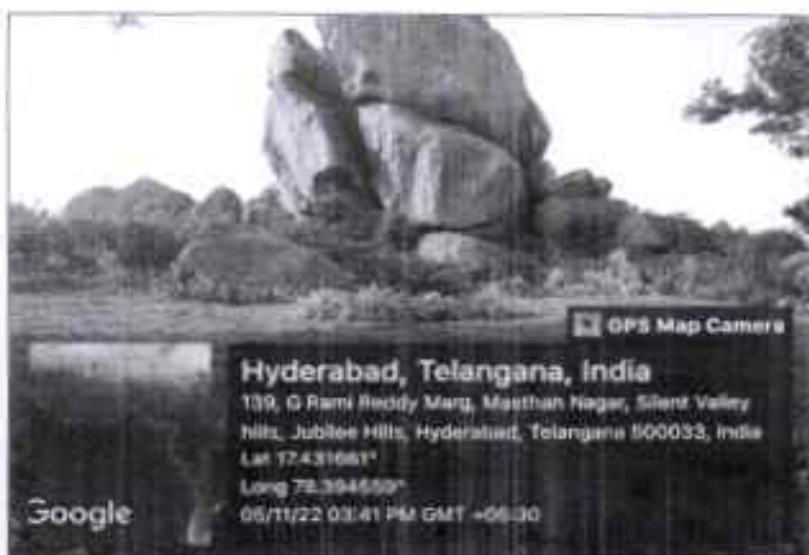
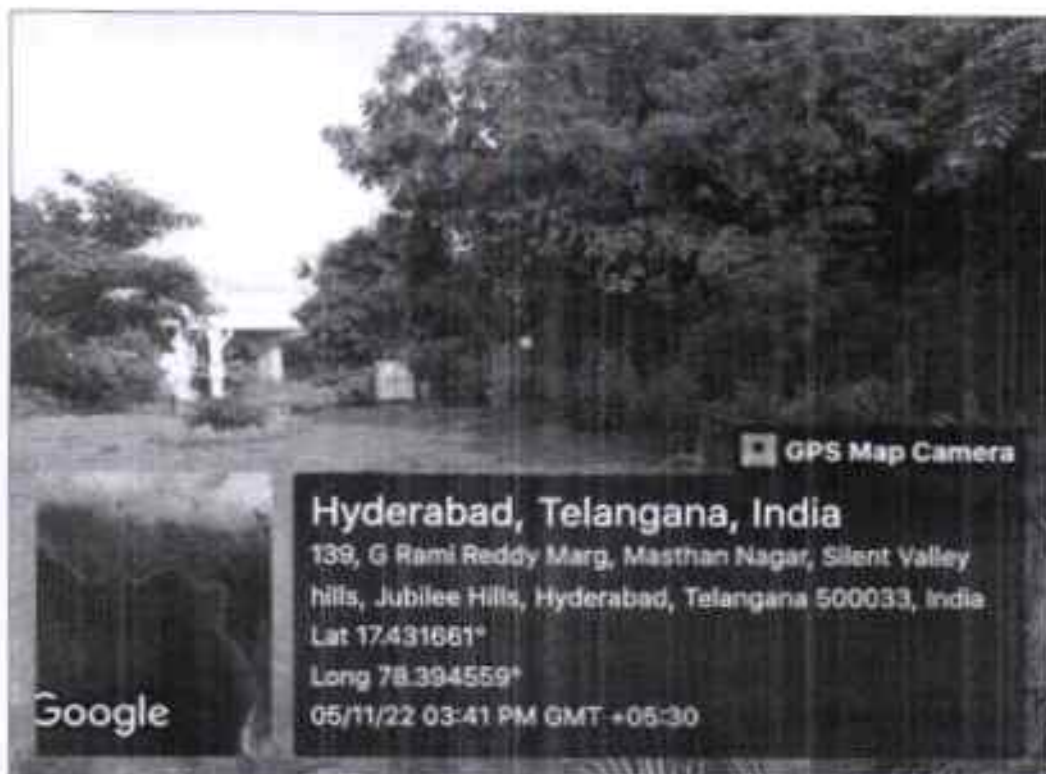
A **landscape** is the visible features of an area of land, its landforms, and how they integrate with natural or man-made features. The character of a **landscape** helps define the self-image of the people who inhabit it and a sense of place that differentiates one region from other regions.

A comprehensive, sustainable **landscape** design typically addresses a series of **goals**: protecting the site and surrounding land and ecosystems — soil, water, and wildlife; reducing water use; limiting pesticide

use; using plants and materials from local sources; minimizing mowing requirements; ensuring the health. The principles are the fundamental concepts of composition-proportion, order, **repetition**, and unity—that serve as guidelines to arrange or organize the features to create an aesthetically pleasing or beautiful landscape.

The University campus is spread over 150 Acres of land and is located near Gangapur Dam. Since 1989 beautification of university campus is on till date. The Landscaping is approximately done on 20 Acres of total land.

Photograph of Landscaped Garden in the campus:

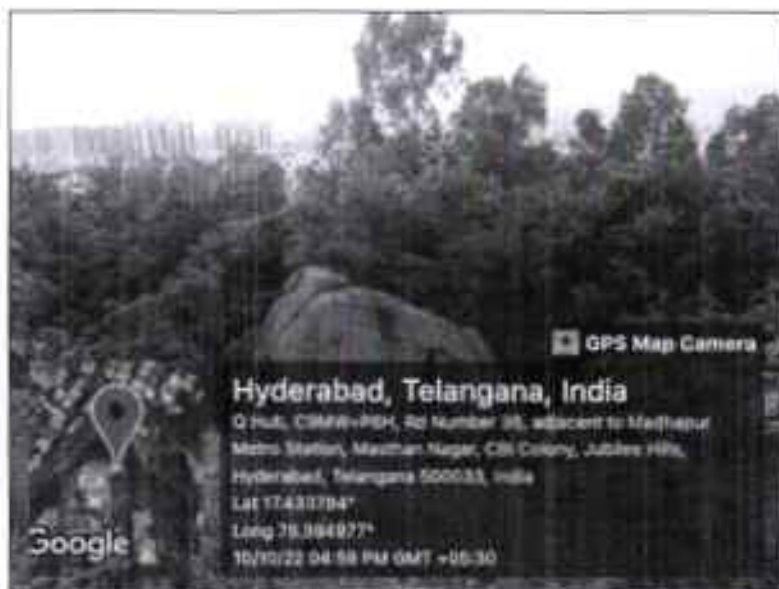


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7.5.3 Maintenance of Natural Forest Area:

In 1991 for development of green campus initially various forestry species plants were planted on an area of **22 acres**. Regular watering and fertilizers were applied to the plants. Wall fencing is done for the total area to protect the plantation from stray animals and also from cutting the trees for firewood by humans, at actual now total plantation has survived and fully grown. There is an increase 25 percent of plant population which ere naturally germinated and survived.

Photograph of Natural within the campus:



7.5.4 Planting of Ornamental Plants:

For beatification of our university campus we have taken initiative in which the University planted many species of ornamental plants at various sites in the campus.

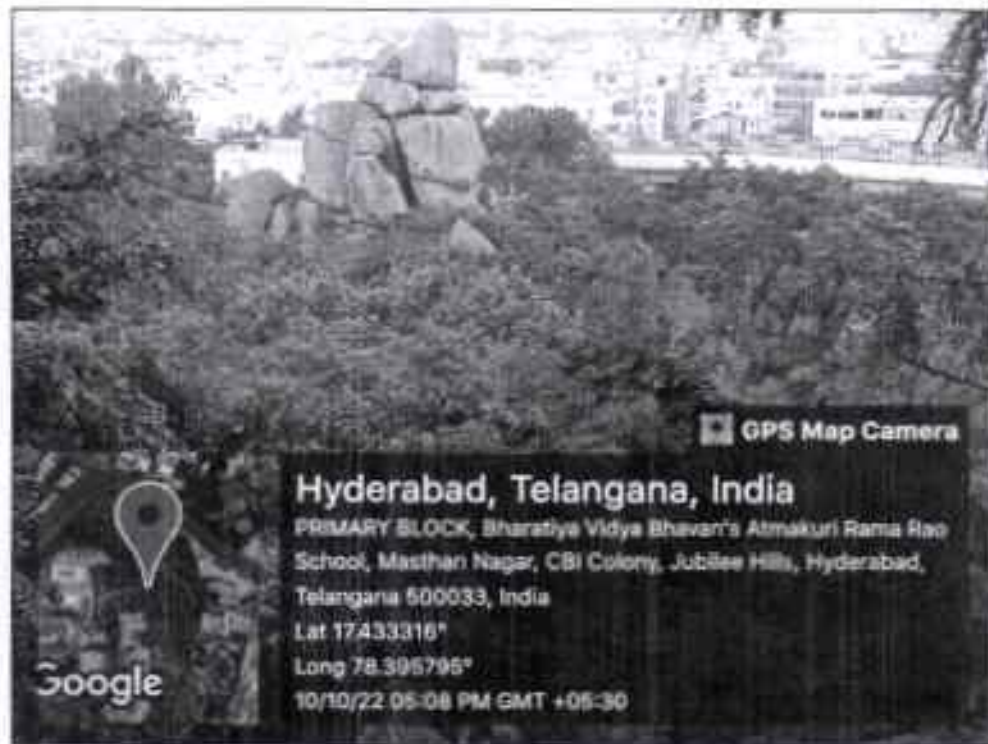
Photograph of Ornamental Plantation:



7.5.7 Green Cover in the Campus:

Out of a total area of 22 Acres, almost 54Acres of Land is under, while 3 Acres under the plantation. More than 90% of total area is Green

Photograph of Green Cover in the Campus:



7.6 Participation SWACHH BHARATH ABHIYAN:

The University is an active participant in the Government of India's most prestigious project of SWACHH BHARATH ABHIYAN.

The important highlights under this Program are.

- The campus is SWACHHA from inside: Has adequate number of Toilets, The Hostel facilities are cleanly maintained, The Water supply is sufficient & the cooking equipment are modern & efficient
- There are ample numbers of Garbage Bins and the collection of garbage is on Daily basis.
- The Garden Waste is composted by **Vermi-Composting** route
- The Kitchen waste is used for generating Bio Gas in a Bio Gas Plant
- Swachhta Lectures are held annually
- To promote the **Swachhta Abhiyan** the University has adopted Ghanshe Village, of population 200 & the Village is **Open Defecation Free (ODF)**

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CHAPTER-VIII

STUDY OF ECO FRIENDLY & SUSTAINABLE INITIATIVES

In this Chapter, we discuss the various Eco Friendly and Sustainable Initiatives undertaken by the University.

8.1 Participation in Unnat Bharat Abhiyan:

Under this Program, the following activities are taken in the adopted Village:
Disseminating the information on:

- Need & Importance of Personal Hygiene & Sanitation
- Hygiene of Water resources

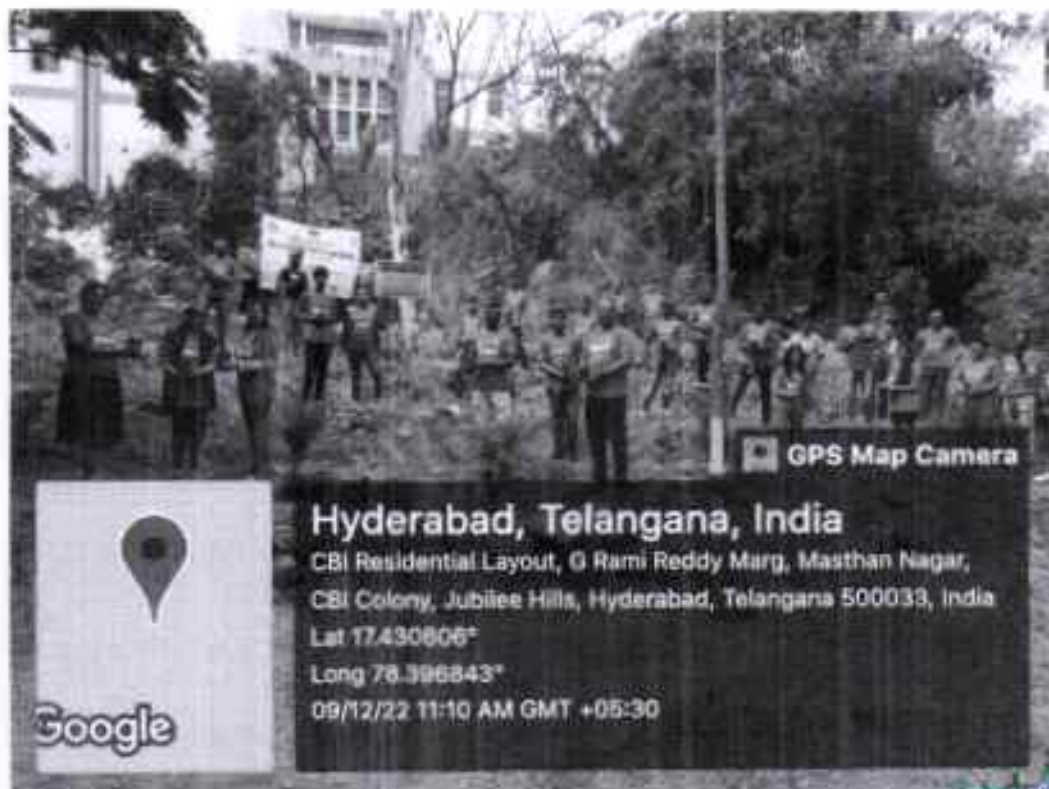
8.2 Participation of Affiliated Colleges in National Service Scheme (NSS) Program:

Under the University there are about 50 Plus Learning centers. From these affiliated centers, about 1200 plus students are involved in the National Service Scheme (NSS) program.

The major activities under this Program are:

- Tree Plantation Campaign
- Water conservation

Photograph of Tree Plantation Campaign:



CHAPTER-IX RECOMMENDATIONS

It is recommended to:

1. Install Roof Top Solar PV Plant
2. Replace 600 No's T-5 Fittings by 20 W LED Fittings
3. To set target of reduction in use of paper by about 5 % on year-to-year basis.

ANNEXURE-I

LIST OF PLANTED TREES

S No	Name of the Plant	No of plants
1	Spanish Cherry	27
2	Indian elm	46
3	African tulip tree	18
4	Neem Tree	32
5	Peltophorum	87
6	Rain Tree	9
7	Portia Tree	1
8	Yellow Trumpet Tree	6
9	Eucalyptus	64
10	Wild date palm	1
11	Royal Palm	22
12	Indian Cork wood	26
13	Trumpet bush tree	11
14	Pongam tree	9
15	Teak	42
16	Cucumber Tree	2
17	Pink Trumpet Tree	7
18	Peepal	5
19	Lebbek Tree	9
20	Indian Black Berry	4
21	Indian almond Tree	17
22	Silver Oak	12
23	Ashoka	32
24	Palmyra alstonia	24
25	Mahua Butter Tree	5
26	Leguminosae	27
27	Wild Indian Almond	7
28	Tamarind	6
29	Mango	27
30	Indian Sissoo	13
31	Bamboo	22
32	Manila Tamarind Tree	8
33	Common Fig	2
34	Ficusbenjamina	2
35	Banyan Tree	2
36	Temple Tree	16
37	Illintha	32
38	Subhabul	1080
39	Jujubi	6
40	Pala Kodesha	7
41	Thunki	11
42	Kanchanam	6
43	Naringhi	21
44	NallaThumma	2

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