Botanical Garden

A botanical garden or botanic garden is a garden dedicated to the collection, cultivation, preservation and display of an especially wide range of plants, which are typically tabulted with their butanical names. It may contain specialist plant collections such as each and other succutent plants, herb gardens, plants from particular parts of the world, and so on, there may be greenhouses, shade houses, again with special collections such as tropical plants, alpine plants, or other exotic plants. Most are at least partly open to the public, and may offer guided tours, educational displays, are exhibitions, book rooms, open-nic thearrical and numical performances, and other entertainment.

Bottonical gardens are often run by universities or other acientific research, organizations, and often have associated berbaria and research programmes in plant taxonomy or some other aspect of botanical science. In principle, their role is to maintain documented collections of living plants for the purposes of scientific research, conservation, diaplay, and education, arthough this will depend on the resources available and the special interests pursued at each particular garden. The staff will normally include botanists as well as gardeners, in pursuance of the quality initiations our pollege established a botanical garden.

The college garden contains a wide variety of plants such as flowering plants, ornamental plants. During plants, woody plants, butanically important plants and medicinally important plants. Plant community is create posthetic and greenery atmosphere for the stockers and pleasant their minds. These plants are collected from nurseries, students, villages, NGOs and growing with the support of students of the college. The college administration and staff has been supporting green initiatives of the college and cooperate in frequent plantation programmes in the college.

COLLEGE GARDEN WITH OR CODE SYSTEM

Title every plant with QR code images in print forms on iron or plustic materials and tag them as each plant.

Objective of the program.

Title every plant with QR code images for the easy and quick accessibility of the information about the plants we are accord-

Contest of the program

The need of this practice starts with the plantation and their nourishment of what has happened in our institution in recent years. The Paloncha area is focused in the premises of Major & Small Industries used) as Kothagudem Thermal Power Station, National Mineral Development Corporation Ltd. Nava Bharat Ventures Ltd., Sponge from Limited etc. and these industries apparently cause oir and dust pollution summading areas. Our college is also located in the vicinity of these Industries and has to sostain on tolerane the campus as pollution-free. For this significance another best practice is adopted to maintain the campus eco-friendly with a variety of plant communities that act as pollution combating agents. Consequently this activity also consequents the students in social responsibility activities and peeds to know the plant's information.

THE PRACTICE: -

Planning of the program to resolve the issues:

- It is decided to plant a variety of plants such as Medicinal valued plants. Ornamental
 plants, botanically important plants & Environmental supporting plants.
- The Department of Botony along with the staff and students planned to maintain #
 Botonical Garden and College Gorden to the compus and every plant is recorded with a
 separate QR code about the features and characteristics of the plant.
- In the practice, the Ecoclob cell and NSS Unit of the college supervise the planting, maintenance of the plants.

The students belonging to Science stream along with the other students are planning to
collect the plants from nutseries or their house promises and plant in the enflege companand also they have to involve in the clean & green programs for the proper maintenance.

Insolvement of stakeholders in this program:

- All the students are enumaged to involve actively in the plantation & maintenance of the garden.
- All the staff recorders are invalved in the programs initiated by the flee club & NSS Limit of the college.
- Alimni is participating in the plantation programs
- NGOs, Forest Department, Prohibition & Excise Department, and other local people serversessurvives are involved in the programs organized by the college.
- College is colinborated with the Porest Department, Prohibition & Excise Department, and NGOs to ensistein the companition in property.
- Regular proceder of participation in "Haritholarom" on inicipative program of the Government of Telangua is planned.

Evidence of surross

- With the initiative of the program, so for 3500 plants are planted in the campus and more
 than 3000 plants have purvived with continuous Cleme and Green programs and
 maintenance of the garden. With the incitity of a Botanical garden in the campus,
 students of the Biological stream are comprehended about the plants. With Qit code
 system, students are well aware instantly of the plant features, description, uses, etc.
- The massive greenery in the compute also helped to sustain politation-free nir in part of an eco-friendly environment.
- The college is giving a phonount atmosphere for the students and staff and complete information about the plants and their characteristics and uses.

Problems encountered and resource required

During the practice we have not noticed by problems as this is taken up by all viskeholders terponoibly and insolved in the program.

Model QR ende and its accomion of information:



QR Codes are 2D frarendes that are easily scannoble via a smarsphone with the assistance of different apps. Application of QR codes is being used in many bounded gardens, nature trails, and parks. This is due to the plenty of reasons, advantages of QR Codes in now days.

The QR Codes can link described information and aspirant can link a QR Code to a text, melicity URL, an intege, or a video. The QR Codes are damage resistant as they can result alight to severe damages and keep their seamning capability intact in an environment of a garden. The QR Codes are also residable from any direction and delimits angular difficulties. The QR Codes occupy very less space and can ensity be placed on any small size plants. Thus the QR code system makes efficient Plants Map that will be easy and affordable to under custom, interactive plant tags of signs.

With the multiple applications of QR codes system for Botanical Gorden Department of Botany, Government Degree College has taken from foot implement this for college garden as this contains plants of botanical study scope, rare plants, ornamental and medicinal plants. The system is mainly adapted to knowledge and motivates the stakeholders of the college and local numericaling people to learn more about the plants and their nature.

The QR code system of the college offers the information pertain so the concerned plants that growing in the college compass from plant local name, plant scientific name, hybrids, classification, occurrence, Origin and distribution, morphology, familiar characteristics, Cultivation, Significance in different religions, different uses like traditional, Cultury use, Safety issues, chemical constituents to medicinal importance.

List of Exist Plants A) Avenue Plants

S.Ma	Scientific Name	Common Name	Nomber
¥	Alseania schuluris	Derthe Squ. Edginlin tree	90
2	Manihot esculento	gg tac≤edo. Carpana	3%
1	Albisio lebbech	octor, Lettel	20
Ä	Teenunalin entuppa	ළිය යායුත, China Almand	120
É	Nyctanthes artior-tristis	à-bande, Parient	10
Ŕ	Millingtonia hartensis	epir d कहा, The horizon	30
ř.	Sarare esecu	er Facign, Eta Ashek	10
8	Dymais futescens	의로 라마스, Areco poim	3000
9	Cycuos revaluta	355 3355, Naimtree	T
30	limra coccinao	Mant	-20
21	Tectora granula	đá, feyk	359
12	Eucas nuclfura	ff Gyp Cacamus	30
13.	Hibiscus rosusinusis	Sucret, Chinasa Rest:	20
14	Paogomin pionata	erstart Ponesin tree	40
35)	Logerativemio indica	Ser Moon, Sagen	40
10	Mimosa nirdicu	и-96-0, Тиней те пот	10

		Total Plants	242
29	Nerlum oleander	గస్పేరు, Garnero	100
28	Mimusops elengi	పోగడ పెట్టు, Bakula	50
27	Crossandra infuadibuliformis	Elnakambaram	10
26	Elacocarpus ganitrus	dagrst, fludraksha	5
25	Bambusa valgaris	ವಿದುಗು ಮುತ್ಯ	tū
24	Phoenix sylvestris	రాల చేట్లు, Silver date palm	20
23	Bougainvillea glabra	ಟ್ ಗಿರಂಪ್ರಗಳ ವಿಶ್ವವ್ಯ Paper Hower	35
22	Bauhinia ocuminato	దేవ కాందినం, Bauhinia	20
21	Prerocorpus santalinus	ථල යංක්රං, Red sanders	8
20	Dalbergio sissoo	ಇರುಗುದು ತಕ್ಷು, Shisham	20
19	Terminalla arjuna	నల్ల మర్ది ,Nalla madd.	10
18	Alangium salviifolium	ನಲ್ಲ ಕುರುಗ್ಗೆ Udigu Ankol	20)
17	Josephunt sombac	విల్ల, Jasimin	10

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B) List of Medicinal Plants

S.No.	Name of the plant	Common Name	Quantity
1	Alon vero	Slutted, Albes	43
2	Senegalia rugata	<u> ಕ್ರಿಕಾಯ</u>	10
3	Curcuma longa	DAUGU Termetic	\$
4	Citrus	Day, Nimma	,6
5	Catheranthus roseus	ವಿಳ್ಳು ಗನ್ನು ದು, Billia Ganneni	to
5	Ocimum	cours, Tulasi	50
:7	Phyllanthus emblica	m\$5, Amta	70
S	Asadiracto indica	35, Neem	20
9	Ficus benghalensis	మర్థి , Marri, Banşan	2
10	Ficus religiosa	రావి చెట్టు, గణుగ	5

C) List of Fruit Plants

5.No.	Name of the plant	Common Name	Quantity
1	Achras sapota	ంచి'లా, Sapota	'5
2	Pinico granatum	ಜನಿಮ್ಮ, Pome granite	30)
3	Atangifera indico	ಮಾಮಿಷಿ Manyo	10
(4)	Syrygium camini	53da, Neredu	15
5	Aunena squamosa	Scroon, Custard Apple	60
ő	Psidlum guajava	జాదు, Guava	50
7	Musa paradisica	ede, Banana	100
8	Acrocarpus heterophyllus	556, Jack fruit	8
9	Ficus carica Fig	Anjesz	1
0	Bate)	Paan	2
1	Annono muricata,	Laxman Feuit	1

D) List of Ornamental Plants

5.No.	Name of the plant	Common Name	Quantity
10	Duranta erecta	ದುರಂತೆ', Durante	200
Z	Rose	സമ്പർ, Rose	319
3	This occidentalls	orw, White Cedar	20
4	Chrysanthemum	రామంత, Chamanthi	.5
5)	Phlebodium aweum	పర్న మొక్క, Garden Fern	10
6	Tradescantio spathacea	Mhoen Solz Zwey, Sout	100
7	Ploctranthus scutellarioides	Colour, 20060 Alle	250
8	Gymnocalyclum mihanovichii	ದೆಂದ ಕ್ಯಾಸ್ಟರ್ ಮುಖ್ಯ Moon Coctus Flant	80
5	Adenium obesum	ಎದಾರಿ ಗುಲಾಪಿ, Salm-Dyck	16
10	Euphorbio mili	కాక్టప్ Coztus type	30
13	Codineum varlegatum	కోడయం కోటాస్ Croton	10
12	Furcraea foetida	Green Aloe	35%
3	Areca cotechu	Palm	(5)
4	Vietchia	Meri Green Palm	5
5	Roystonea regia	Royal Palm Trees	6

16	Terminalla mantaly	Variegated	5
17	Conocarpus	Madagascar Almond	-
	Conoccupas	Damas plant	5
18	Pimenta dioica	Jamaica Pepper	2
19	Cinnamon	Dalchini	1
20	Excoecaria bicolor variegata	Chinese Croton	5
21	Dracaena Mahatma plant	Dracena plant	5
22	Schefflera	Umbrella tree	5
23	Ujjenia Plant	Ujjeni	6
24	Aralia Plant	Aralla	8
25	Tabernaemontana divaricata	TMC plant	2
26	Plumbago auriculata	Chitramala	3
27	Syngonium	Syngonium	ž
28	Codiaeum variegatum	Croton	3
29	Lycoris radiata	Spida Lilly Plant	5

DATE OF THE EVENT: 18.03. 2021

RESOURCE PERSON/ CHIEF GUEST: Dr.Y. Chinnappaiah – Principal & Dr.R. Suman

Kumar, PDF – Osmania University, GSP

member -UN-FAO

OBJECTIVES OF THE PROGRAM:

Government Degree College, Paloncha always take first step towards the multidimensional development of the students and faculty members. In this Scenario a National Webinar is organised on Ethhnobotany and Pharmacognosy with the Resource Person - Dr.R. Suman Kumar, PDF – Osmania University, GSP member –UN-FAO & General secretary of Genesis Urban and Rural Development Society, Hyderabad.

BRIEF DISCRIPTION:

Department of Botany & IQAC of the college is conducted a National Webinar on Ethhnobotany and Pharmacognosy. The resource person of this program - Dr.R. Suman Kumar in the first session explained the prime importance of Ethnobotany – Ethno medicine, a tribal medicine system. In the second session the resource person given extensive speech on his experiences with Ethnobotany and todays modern medicine system that include plants that deeply associated with tribal communities in interior villages – Pharmacognosy. The lecture describes important qualities of medicinal plants that rarely occur. The lecture strictly stressed importance of medicinal plants that every botany students see and observe every day. All the students of GDC – Paloncha and many Botany teachers from our state and other states participated in the program. Participation certificated issued to the all participants.



MENT DEGREE COLLEGE PALONCHA



Affiliated to Kakatiya University, accredited by NAAC



A National Webinar on

Ethnobotany and Pharmacognosy An Endangered Branch of Sciences

Organizing by Dept. of Botany

on Thurseday 18th March, 2021 @ 10 AM



Chairman Dr. Y. Chinnappaiah PRINCIPAL **GDC** Palongha.



Resource Person Dr. R. SUMAN KUMAR **GSP Member. UN-FAO Italy, Rome** Gen. Sec. Genesis Urban and **Rural Development Society**

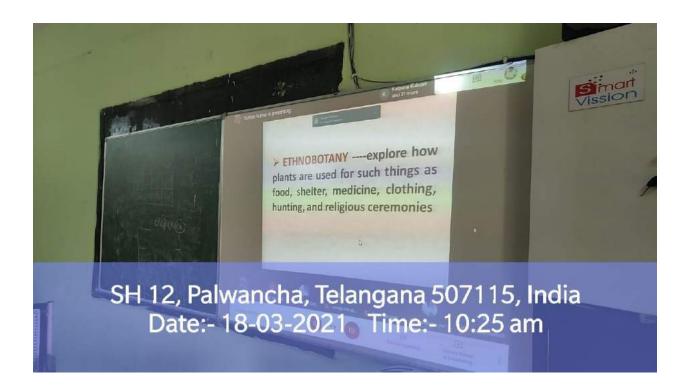


Convenor Dr.M. Poornachander Rao Asst. Prof. of Botany & IQAC Coordinator



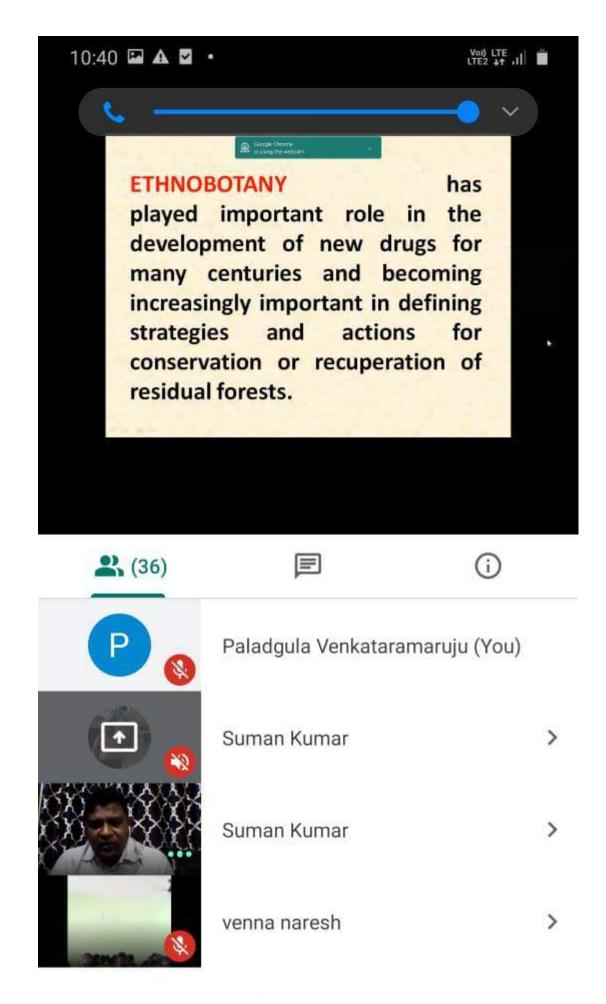
Meet https://meet.google.com/iqe-xhae-quj



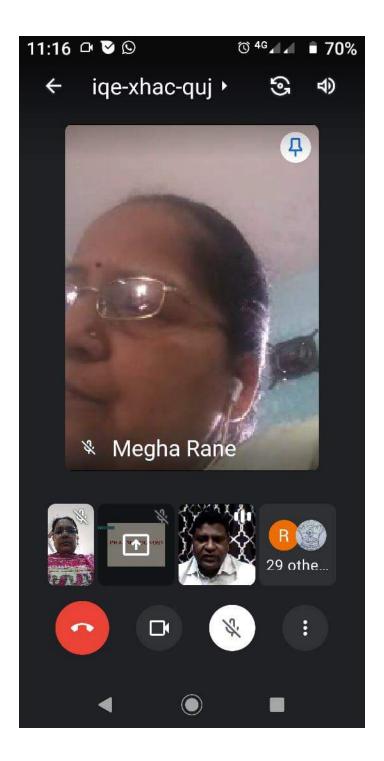




Students of GDC Paloncha participate in the webinar



Others in the meeting (32)







Certificate model issued to the participants