

Memorandum of Understanding (MOU)
(Environmental awareness and sustainable practices)

Between:

1. Gujarat Arts and Science College, Ahmedabad.

2. TREEWALKS, Ahmedabad.

Preamble:

WHEREAS, GASC is committed to promoting environmental awareness and sustainable practices among its students and community members; and

WHEREAS, TREEWALKS specializes in organizing educational walks and initiatives aimed at fostering awareness about trees, biodiversity, and urban greening;

NOW, THEREFORE, the Parties hereby agree as follows:

1. Objective:

The objective of this MOU is to establish collaboration between GASC and TREEWALKS for conducting a social initiative aimed at awareness development towards trees and urban ecology.

2. Scope of Collaboration:

2.1 GASC and TREEWALKS agree to collaborate on organizing educational events, workshops, TREEWALKS, and other activities that promote awareness about the importance of trees, urban biodiversity, and sustainable urban practices.

2.2 The specific activities to be undertaken under this collaboration may include but are not limited to:

- Organizing tree planting drives and tree care workshops.

- Collaborating on research projects or initiatives related to urban biodiversity and sustainable development.

3. Responsibilities:

3.1 GASC Responsibilities:

- Provide support in terms of venue, logistical arrangements, and necessary permissions for organizing events and activities.
- Mobilize students, faculty, and community members to participate in the activities.
- Assist in promoting the events through its communication channels.

3.2 TREEWALKS Responsibilities:

- Develop and deliver educational content and materials for the TREEWALKS.
- Coordinate the logistics of the events, including scheduling, resource allocation, and guest speakers (if any).
- Provide expertise and guidance on tree species, biodiversity, and sustainable urban practices.

4. Financial Arrangements:

This collaboration is based on mutual cooperation and does not involve any financial transactions between GASC and TREEWALKS. Each party will bear its own expenses related to its participation in the activities unless otherwise agreed upon in writing.

5. Duration:

This MOU shall be effective from 15/06/2018 and shall remain in force for a period of 05 Years.

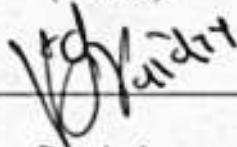
6. Intellectual Property:

Any intellectual property developed or produced as a result of this collaboration shall be jointly owned by GASC and TREEWALKS, unless otherwise agreed upon in writing.

IN WITNESS WHEREOF, the Parties hereto have executed this Memorandum of Understanding as of the date first above written.

Signature:

Gujarat Arts and Science College
(GASC):



Principal

Gujarat Arts & Science College
Ahmedabad.

TREEWALKS
Ahmedabad:

FOR, SECOND ALLIANCE FOUNDATION



DIRECTOR

Gujarat Arts and Science College, Ahmedabad
Report on "Tree Walk – Tree Talks" Programme

Date: 11-01-2023

"TREEWALK – Tree talks" program was organized by Nature Club, Science City in co-ordination with TREEWALK group on 11th January, 2023 at Nature Park in Science City campus for better understanding of Trees around us. TREEWALKS group is a social initiative for awareness towards urban greening. the nature lovers were introduced to different trees and shrubs and also about their importance, different aspects for their plantation, pollination, flowering, water requirement etc. by the expert team. Total **14** students of Gujarat Arts and Science College of B.Sc. Semester - 4 and B.Sc. Semester - 6 participated in this tree walk.

**"TREE WALK – Tree Talks" with Science City Nature Club
at Science City, Ahmedabad**

held on

11th January, 2023

At

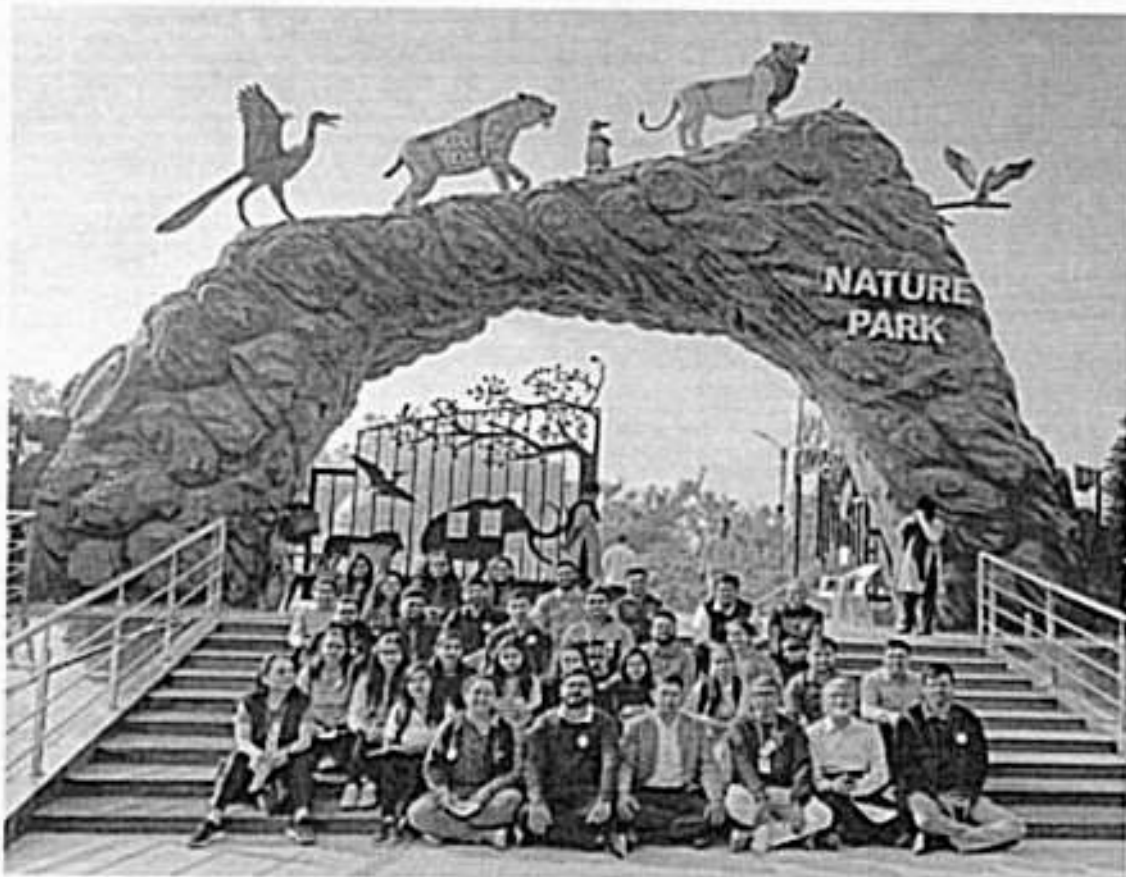
Nature Park, Gujarat Council of Science City, Ahmedabad

PROGRAM REPORT

"TREEWALK – Tree talks" program was organized by Nature Club, Science City in coordination with TREEWALKS group on 11th January, 2023 at Nature Park in Science City campus for better understanding of Trees around us.

TREEWALKS group is a social initiative for awareness towards urban greening. The group visits various green area of the city with horticulture experts to identify Trees, discuss them & understand ways to make our city Green for better environment. The group is a non-profit activity promoting greening of our city and reconnecting to nature.

It was a great and meaningful beginning to Nature Club activities in campus. Approx. 25 students from different colleges and other nature lovers have participated in the above program. All the participants were gathered at Amphitheatre at Science city. After an introductory session, we moved towards the Nature Park for Tree walk for identification of trees along the path as well as their ecological importance.



In between, the nature lovers was been introduced to different trees and shrubs and also about their importance, different aspects for their plantation, pollination, flowering, water requirement etc. by the experts team Mr. Lokendra Balasaria, Founder, TREEWALKS group, Mr. Shivam Bhatt & Mr. Dhaivat Hathi, The Ecoscappers.



Different trees viz. *Cassia javanica* (પિંડ કેસિયા), *Cassia siamea* (ડાસીદ), *Milletia pinnata* (ડરંજ), *Moringa oleifera* (મીઠો સરગવો), *Ficus benghalensis* (૧૬), *Bauhinia blakeana* (કંચનકૃષ્ણ), *Butea monosperma* (કેસુડી) and many more have been introduced to the participants with interesting facts along the way.



The experts also talked about the current landscaping and gardening practice by architects which lack plantation of native trees. Ornamental exotic trees are used for garden designs without considering their requirement for available resources.

They said selection and plantation of exotic trees will result in more requirements of water and other resources which ultimately diminish our available natural resources and quality of soil also compromises.

Experts added that if a particular native tree grows naturally in large numbers in a particular area, it indicates that the soil is not suitable and that indicates the particular species is invasive in that particular area.

Further, the nature lovers have been addressed by Dr. Vrajesh parikh, General Manager (SP) for Twelve (12) different themes for future Nature Club activities. The themes are as per following.

1. Natural biological diversity (plants)
2. Natural biological diversity (animals)
3. Natural ecosystems (forests, grasslands)
4. Natural resources (water)
5. Natural resources (Air)
6. Natural resources (space)
7. Natural resources (different energy forms)
8. Natural resources (land)
9. Spheres around Planet Earth (17 nos.)
10. Natural calamity (earthquake, tornadoes etc.)
11. Shortage of Bioresources in Future
12. Food for hunger



At the end, Mr. Lokendra Balasaria distributed the seeds of "Palak" and "Methi" to the participants for growing in their kitchen garden. The participants then move towards Amul Café for refreshment and they served "Upma" as a part of celebration of International Year of Millets, 2023 to promote consumption of millets.

Prepared by

Yagnika Patel


Education Assistant (Biology)

GCSC - DST

**List of Participants/Invitees for
"TREE WALK – Tree Talks" with Science City Nature Club
at Science City, Ahmedabad
held on
11th January, 2023**

Sr. no.	Name of Participant/Invitee	Name of Organization/School/ College	Contact no.	Email id
1	Lokendra Balasaria	Tree walks	9824080909	urbantreewalks@gmail.com
2	Rini Balasaria	Tree walks	9879478310	rinisen@hotmail.com
3	Shivam Bhatt	The Ecoscapers	9624168279	mail4shivambhatt@gmail.com
4	Dhaivat Hathi	The Ecoscapers	9825758389	dhaivat.hathi@gmail.com
5	Jainam Mehta	Rescue & Rehab Foundation Navsari	9408189697	jainammehta3005@gmail.com
6	Kiran Shah		9825520676	kcs007@yahoo.com
7	Falguni Vasava	Gujarat Arts and Science College B.Sc. Botany Sem - 6	6356035909	pikuvasava15@gmail.com
8	Ankitaben Sunilbhai Mang	Gujarat Arts and Science College B.Sc. Botany Sem - 6	7069643811	mangankita4@gmail.com
9	Nishantkumar Abhesingbhai Vasava	Gujarat Arts and Science College B.Sc. Botany Sem - 4	9409615655	nishantvsv2706@gmail.com
10	Shiv S. Gupta	Gujarat Arts and Science College B.Sc. Botany Sem - 4	9484667837	mr.shivgupta03@gmail.com
11	Anand S. Giri	Gujarat Arts and Science College B.Sc. Botany Sem - 4	8320792155	anandgiri4006@gmail.com
12	Vishalbhai Hasmukhbhai Ganvit	Gujarat Arts and Science College B.Sc. Botany Sem - 6	8140620883	vishalpt9924@gmail.com
13	Aditya Girishkumar Damor	Gujarat Arts and Science College B.Sc. Botany Sem - 6	9081979725	adityadamor789@gmail.com
14	Prerakkumar Rohitbhai Chaudhari	Gujarat Arts and Science College B.Sc. Botany Sem - 6	9099502037	chaudhariparthu@gmail.com
15	Yuktakumari Ishverbhai Patel	Gujarat Arts and Science College B.Sc. Botany Sem - 6	7265917960	yuktapatel530@gmail.com
16	Mansiben Laxmanbhai Rohit	Gujarat Arts and Science College B.Sc. Botany Sem - 6	6356864048	mansirohit918@gmail.com

17	Nilamben Somalbhai Kurkutiya	Gujarat Arts and Science College B.Sc. Botany Sem - 6	7283992118	kurkutiyaniyam@gmail.com
18	Purvi Shankarbhai Damor	Gujarat Arts and Science College B.Sc. Botany Sem - 6	8238441060	damorpurvi1@gmail.com
19	Tejasviniben Mansyabhai Raut	Gujarat Arts and Science College B.Sc. Botany Sem - 6	9409261076	agriteju0512@gmail.com
20	Hinal Kanubhai Tadvi	Gujarat Arts and Science College B.Sc. Botany Sem - 6	9687976355	hinaltadvi09@gmail.com
21	Vidhi Patel	Silver Oak University M.Sc. Microbiology	9979184670	vidhi0338@gmail.com
22	Aneri Lala	Silver Oak University M.Sc. Microbiology	9510384853	anerialala0906@gmail.com
23	Hetvi Shah	Silver Oak University M.Sc. Microbiology	9426018064	hetvimshah2000@gmail.com
24	Uzma Boxwala		9016755135	uzma.boxwala@gmail.com
25	Mihir Mehta	Mukti - The Kids Foundation	9824553559	myc9108@gmail.com


 Biology Department
 Gujarat Arts & Science College
 Gandhinagar, Gandhinagar

Gujarat Arts and Science College, Ahmedabad.

Biology Department, & TreeWalks, Ahmedabad.

Organised Guggal Conservation Initiative

Date. 21/09/2021

Project Overview:

- Objective: To conserve the threatened plant species Guggal (*Commiphora wightii*), traditionally valued for its fragrant resin used in incense and Vedic medicine.
- Organizers: Gujarat Arts and Science College, Biology Department, in collaboration with TreeWalks, Ahmedabad.
- Date and Venue: Distribution event held on September 21, 2021, from 11:00 AM to 1:00 PM at the Botanical Garden, Gujarat Arts & Science College, Ahmedabad.

Species Information:

- Name: Guggal (*Commiphora wightii*), also known as Mukul myrrh.
- Description: A thorny small tree typically found in the dry regions of western India.

Conservation Strategies:

- Sapling Preparation: Saplings were propagated from cuttings by the Biology Department of Gujarat Arts and Science College.
- Distribution: Saplings were distributed among committed citizens to encourage planting, conservation, propagation, and spreading awareness about Guggal.

Goals:

- Encourage individuals to collect saplings and understand their maintenance.
- Promote the propagation of Guggal through seeds or cuttings.
- Foster a community effort to share saplings and knowledge within their circles.

Event Highlights:

- Participants: Engaged citizens passionate about conservation, including students, faculty, and local residents.

Activities:

- Distribution: Each participant received Guggal saplings along with guidelines on planting and care.
- Education: Information sessions were conducted to educate participants on the ecological and cultural significance of Guggal.
- Networking: Opportunities provided for participants to network, share experiences, and discuss further conservation actions.

Impact and Future Plans:

- Immediate Impact: Increased awareness about the importance of Guggal conservation among the local community.
- Long-term Goals:
 - Monitor the growth of planted saplings and track their survival rates.
 - Expand the initiative to reach more communities and increase the planted area of Guggal.
 - Collaborate with governmental and non-governmental organizations for policy advocacy and broader conservation efforts.

The Guggal conservation initiative led by Gujarat Arts and Science College, supported by TreeWalks, is a significant step towards preserving India's threatened plant species. By empowering citizens with knowledge and resources, the initiative aims to secure the future of Guggal while promoting environmental stewardship and cultural heritage awareness.

HELP SAVE INDIA'S THREATENED PLANT SP

GUGGAL

**Commiphora wightii/
Gugal/Mukul myrrh**

A thorny small tree – generally found
in western dry regions of our country

THREATENED &
VALUABLE
PLANT SPECIES
TRADITIONALLY KNOWN
FOR IT'S FRAGRANT
RESIN CALLED GUGAL
AND USED IN INCENCE
AND VEDIC MEDICINE

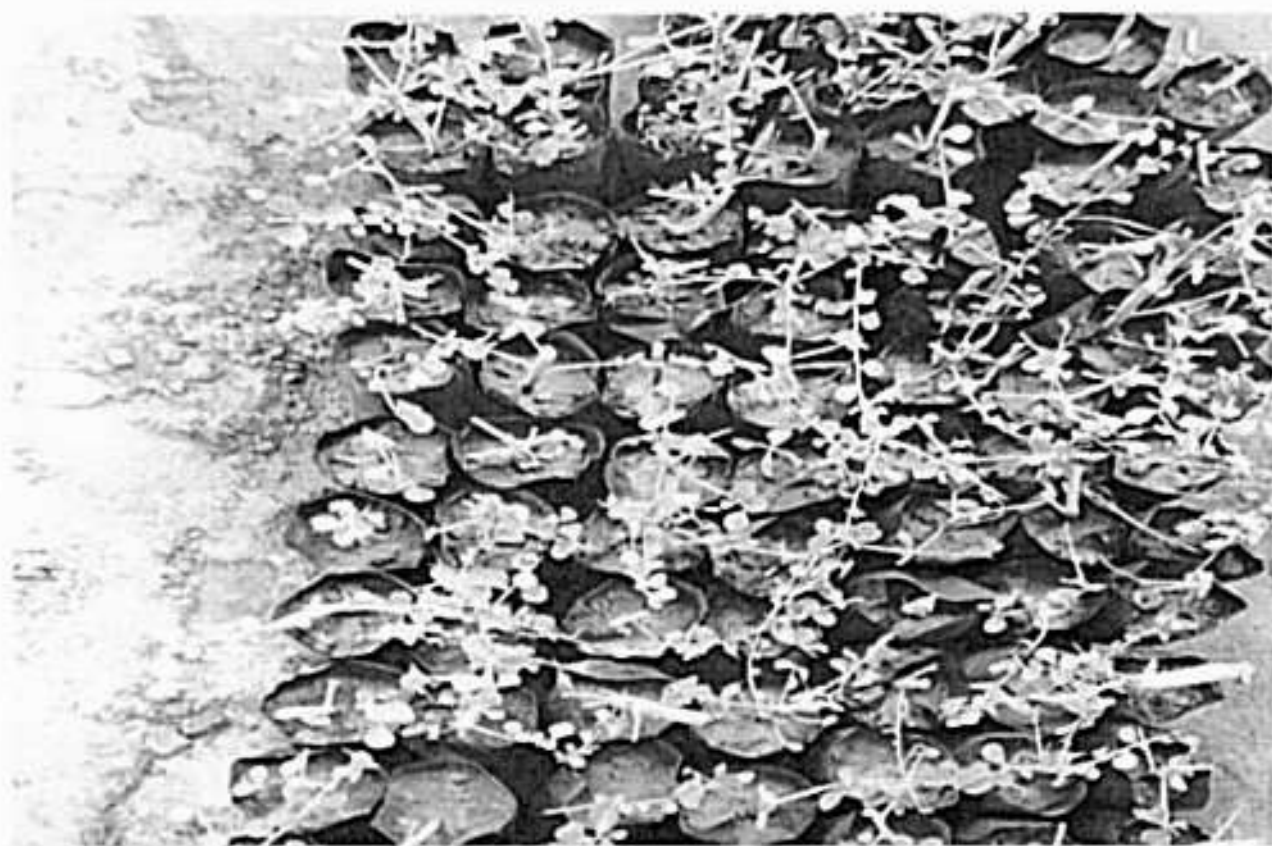


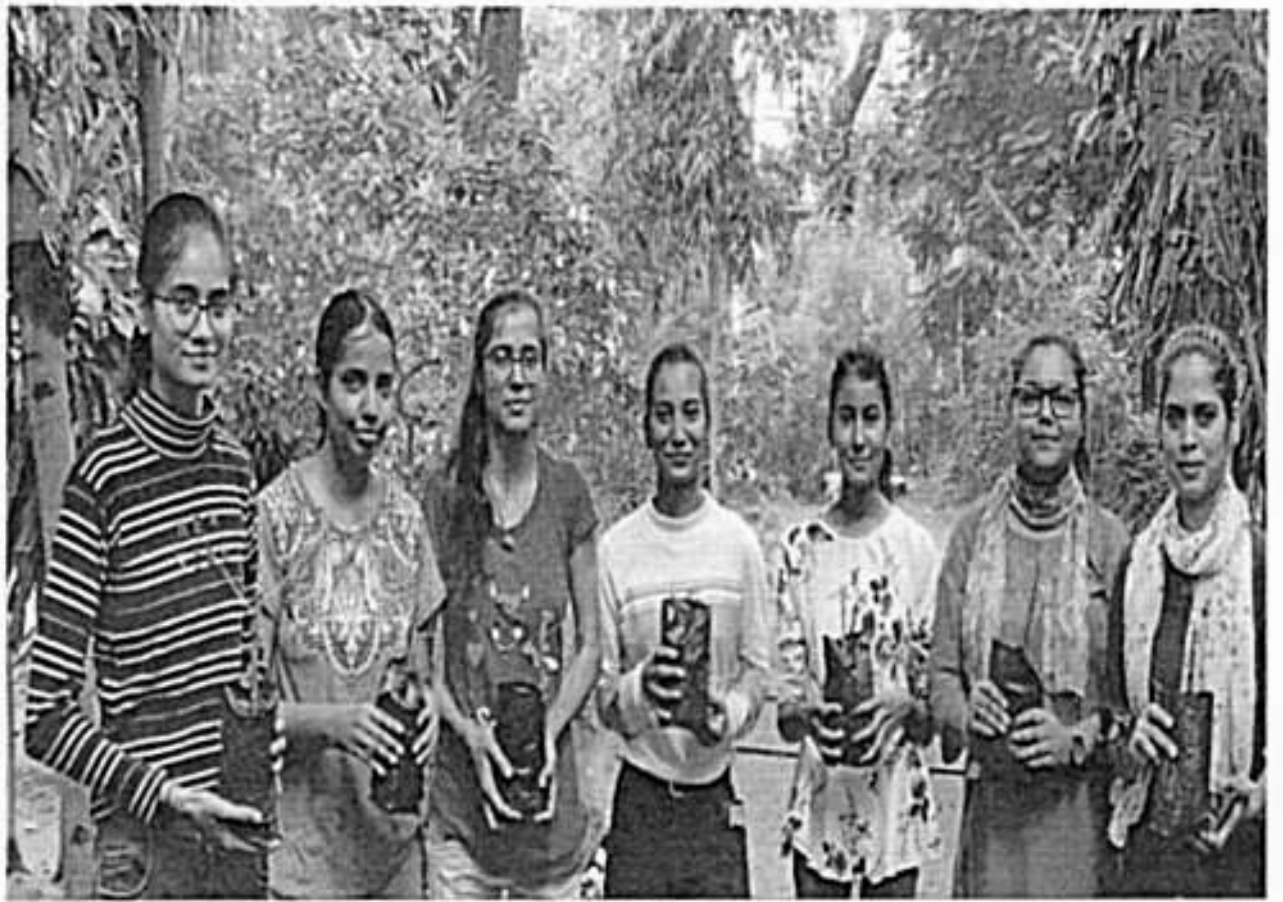
GUJARAT ARTS AND SCIENCE COLLEGE, BIOLOGY DEPARTMENT, has prepared cuttings from cuttings and is distributing them in association with TREEWALKS, Ahmedabad, to committed and concerned citizens to plant, conserve, propagate and spread the species.

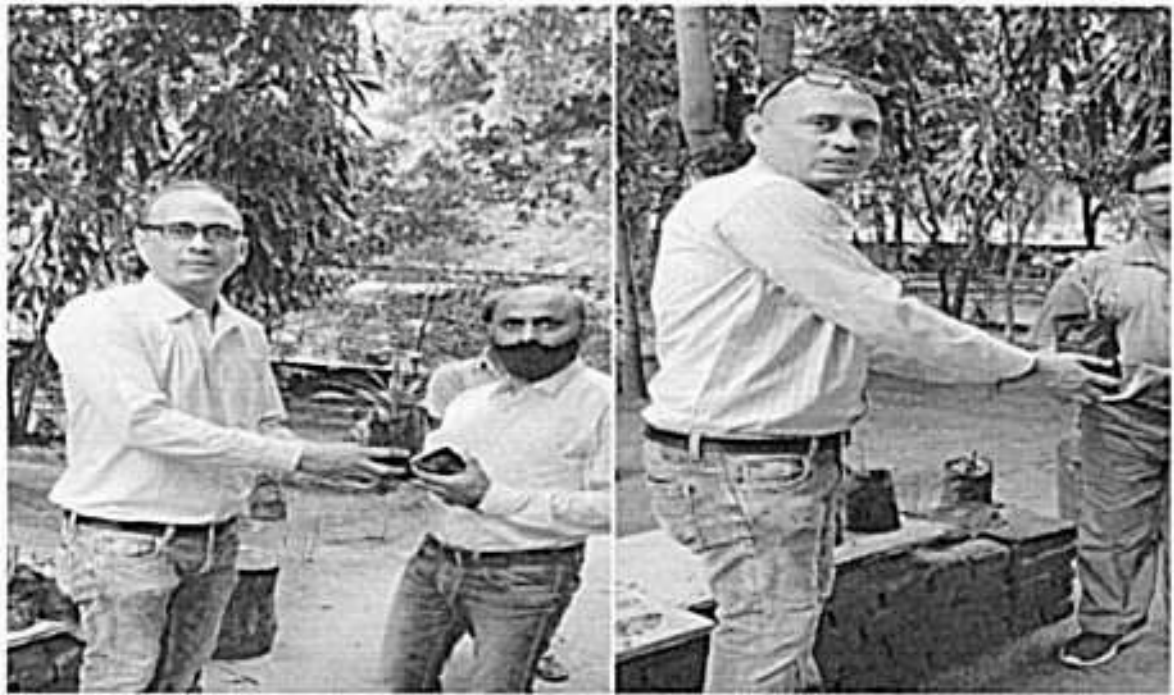
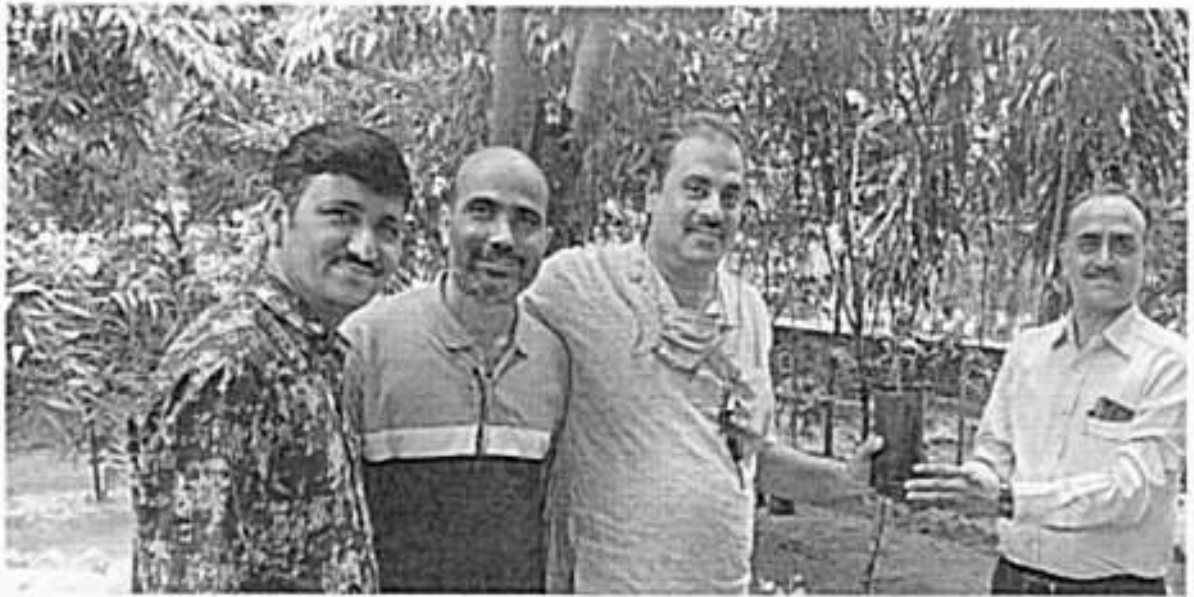
FOR CONSERVATION

- Collect a sapling, understand its maintenance and upkeep
- Make new saplings from seeds or cuttings
- Share saplings and spread knowledge as well as awareness in your circle

DISTRIBUTION







f *Muhammad Saleh*

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Biology Department
Al-Farabi Arts & Sciences College
11-14142-8

Gujarat Arts & Science College, Ahmedabad

Department of Biology

Tree Plantation and Save Environment Campaign

24/07/2021

Date and Time: July 24, 2021, 11:00 AM

Location: Gujarat Arts & Science College Campus, Ahmedabad

Organizers:

- Department of Biology, Gujarat Arts & Science College, Ahmedabad
- TREEWALKS, Ahmedabad

Event Overview:

The "Tree Plantation and Save Environment" campaign held on July 24, 2021, was a collaborative effort between the Department of Biology at Gujarat Arts & Science College, Ahmedabad, and TREEWALKS, Ahmedabad. The primary objective of the event was to promote environmental conservation and sustainable practices through tree plantation activities within the college campus.

Participants and Key Personnel:

1. Prof. R. H. Patel - In-Charge Principal, Gujarat Arts & Science College, Ahmedabad.
2. Dr. S. K. Patel - Project Chairman, Head of Department of Biology, Gujarat Arts & Science College, Ahmedabad.
3. Prof. M. G. Vachhani - Coordinator, N.S.S. Unit, Gujarat Arts & Science College, Ahmedabad.

4. Prof. Samir Pandya - Coordinator, N.C.C. Unit, Gujarat Arts & Science College, Ahmedabad.
5. Mr. Dilip Chaudhary - Physical Training Instructor, Gujarat Arts & Science College, Ahmedabad.

Event Partners:

1. Rotary Club of Ahmedabad Greater
President P. K. Chaturvedi
2. TREEWALKS, Ahmedabad

Activities and Highlights:


- **Tree Plantation:** Participants, including students, faculty members, and volunteers from Rotary Club of Ahmedabad Greater and TREEWALKS, planted a variety of indigenous tree saplings across designated areas of the college campus.
- **Educational Sessions:** Informative sessions were conducted by experts and environmentalists to educate participants about the importance of tree plantation, environmental conservation, and sustainable living practices.
- **Collaborative Efforts:** The event fostered collaboration between educational institutions (Gujarat Arts & Science College), civic organizations (Rotary Club of Ahmedabad Greater), and environmental advocates (TREEWALKS) to achieve shared goals of environmental stewardship and community engagement.

Impact and Future Initiatives:

- **Immediate Impact:** Increased green cover within the college campus, raising awareness about environmental issues among participants, and fostering a sense of community involvement in conservation efforts.

- Future Plans: Continuation of tree plantation drives, establishment of maintenance protocols for planted trees, and potential expansion of collaborative efforts with more community organizations and stakeholders.

The "Tree Plantation and Save Environment" campaign successfully brought together diverse stakeholders to actively contribute to environmental conservation efforts. By planting trees and spreading awareness, the event not only enhanced the college campus environment but also inspired sustainable practices among participants and the broader community.

 <h1 style="text-align: center;">Gujarat Arts and Science College</h1> <h2 style="text-align: center;">Ahmedabad</h2>			
<p><u>When</u></p> <p>24th July, 2021</p> <p>11:00 AM</p>	<p>Theme</p> <h1 style="text-align: center;">TREE PLANTATION</h1> <p>and</p> <h1 style="text-align: center;">SAVE ENVIRONMENT</h1>		
<p><u>Where</u></p> <p>College Campus</p>	<p>Organized by</p> <p>Department of Biology</p> <p>Gujarat Arts & Science College, Ahmedabad</p>		
<p>Prof. R. H. Patel</p> <p>IC Principal</p> <p>Guj. Arts & Science College</p> <p>Ahmedabad</p>	<p>Dr. S. K. Patel</p> <p>Project Chairman</p> <p>Head, Dept. of Biology</p> <p>Guj. Arts & Science College</p> <p>Ahmedabad</p>	<p>Prof. M. G. Vachhani</p> <p>N. S. S. Unit</p> <p>Co-ordinator</p> <p>Guj. Arts & Science College</p> <p>Ahmedabad</p>	<p>Prof. Samir Pandya</p> <p>N. C. C. Unit</p> <p>Co-ordinator</p> <p>Guj. Arts & Science College</p> <p>Ahmedabad</p>









for [Signature]

2020
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Bhambhathal, R.