

Annual Report: 2024–25

Forests by Heartfulness

2024 – 2025

Sustainable Living with Forests



Yatra garden at Kanha Shanti Vanam

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"NATURE'S REVIVAL, HUMANITY'S RENEWAL."

Sustainable Living with Forests



Forests by Heartfulness (FBH) is an ecological movement inspired by the vision of fostering deep harmony between humans and Nature. Rooted in the philosophy of Heartfulness, the initiative was born in Kanha Shanti Vanam, Hyderabad, the global headquarters of the Heartfulness Institute. What began as a response to the urgent call for environmental stewardship has grown into a dynamic effort to conserve existing green spaces, restore degraded lands, and create new forests. Through **afforestation, biodiversity protection, and sustainable community engagement**, FBH offers a meaningful solution to the pressing challenges of climate change, habitat loss, and ecological imbalance.

India's Great Green Wall

Reforesting Hope from Gujarat to Delhi



India is planning to build its own "Great Green Wall" — but instead of bricks, it's using trees. Stretching 1,400 km across the Aravalli range, from Gujarat to Delhi, this massive reforestation project aims to stop the Thar Desert from advancing, restore lost forests, and revive degraded land.

Why This Green Wall Matters:

It halts the Thar Desert's advance, acts as a barrier against dust storms, and revives groundwater reserves. By restoring forests, it filters pollution, heals damaged ecosystems, and supports rural livelihoods through agroforestry. It's nature's defense system — and our future's safety net.

- **Purpose:** Stop the Thar Desert from creeping east, fight air pollution, and recharge groundwater.
- **Span:** Over 1,400 km across 7 districts in Gujarat, 12 in Rajasthan, 5 in Haryana, and Delhi.
- **Goal:** Restore degraded land, revive forests, and protect future generations from climate chaos.



Daaji's Message

Shri Kamlesh Patel is known to many as Daaji. He is the Heartfulness Guide in a tradition of Yoga meditation that is over 100 years old, overseeing 16,000 certified Heartfulness trainers and more than 5 million practitioners in over 160 countries. He is an innovator and researcher, equally at home in the fields of spirituality and science, blending the two into transcendental research on the evolution of consciousness, and expanding our understanding of the purpose of human existence to a new level.

DAAJI shares his experience of the healing power of trees, and how a simple tree practice improved his health. He invites us all to try that same practice.

A simple tree practice

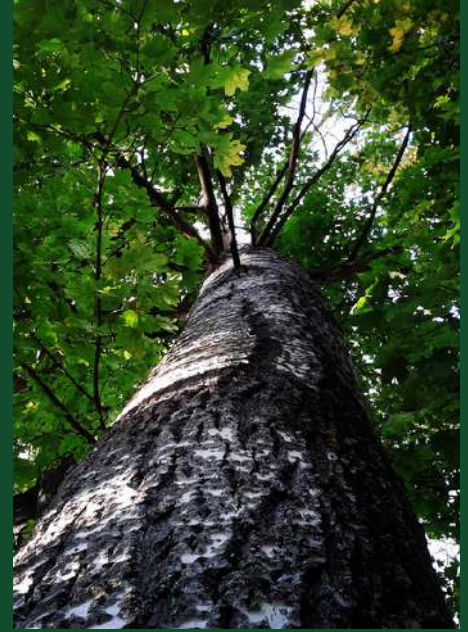
After asking a tree for permission to sit, with a prayer, you may sit on the ground with your back against the trunk of the tree. Make sure the width of the trunk is narrower than your back.

Whatever illness or disturbance you have in your system, offer it to the tree, saying, "Please take this away. Also, take whatever you need from me, and give me the strength to survive and heal myself."



KAMLESH D PATEL

Global Guide of Heartfulness



Healing Power of Trees

Why are trees so special?

Trees retain spiritual charge for a longer period than humans, because their consciousness is of a different quality. We have a very dynamic consciousness that gives us the potential to willfully evolve, but also of going in the opposite direction.

Trees, on the other hand, retain spiritual charge as it is given, without creating disturbance. They are vibration banks that retain the divine charge of Transmission. So, future generations also benefit from them holding spiritual charge.

Trees are also conduits for the flow of energy from the earth upward and from the cosmos downward. Through this flow, they sustain all the lifeforms around them by distributing their charge.

- We have a lot to learn from being with trees.
- Our relationship with trees is complementary.

What is not good for us, like carbon dioxide, they can use, and vice versa. There is a healthy exchange. Trees and humans generally have a good relationship. We have to look after them.

Executive Summary

About FBH:

- **Forests by Heartfulness (FBH)** is an ecological movement envisioned by Heartfulness Institute to create spaces where humans coexist in harmony with Nature.
- **Vision :** Through the FBH initiative, in partnership with Global communities, our vision is to grow, nurture and conserve the native, endemic, endangered tree species of the country while ensuring enhanced bio-diversity, sustainability and longevity.
- **Mission :** Conserving India's mega-biodiversity by planting **30 Million saplings** of rare, endangered and threatened (RET) variety by 2027, supported by creating nationwide nurseries to grow highly resilient saplings that can compete and survive in hostile conditions.



About Heartfulness:

- **Heartfulness Institute** is a global non-profit organization, associated with **United Nations Department of Global Communications** (earlier DPI), with a 79-year history, offering unique, simple, and holistic set of practices for self-development such as **Relaxation, Meditation, and Rejuvenation** which can be integrated into one's daily routine to help us find inner calm and stillness in our present day extremely fast-paced world.
- Globally Heartfulness meditation is offered **pro-bono**.
- Our presence spans over **160+ countries** with over **20 million practitioners, 16,000+ certified trainers, 280+ retreat centers** and **6000 Meditation spots** worldwide.

Vision & Values



Our vision is to conserve the native, endemic and threatened species and enrich the mega-biodiversity for a cleaner and greener world thereby contributing to sustainability and playing a critical role in transitioning to a circular bio-economy.

We are an eco-friendly, nature-forward movement, committed to building a sustainable future; seeking to actively recreate peace and harmony in the world by cultivating a culture of synchronicity with nature and a loving relationship.



10000 Acres

Afforested



330+ Native Tree Species

Planted in our Afforestation projects



80+ Endangered Species

Curated



64,000+ Tons

of Carbon Dioxide offset



12 States

42+ Projects implemented



35 Lakes Created/ Restored

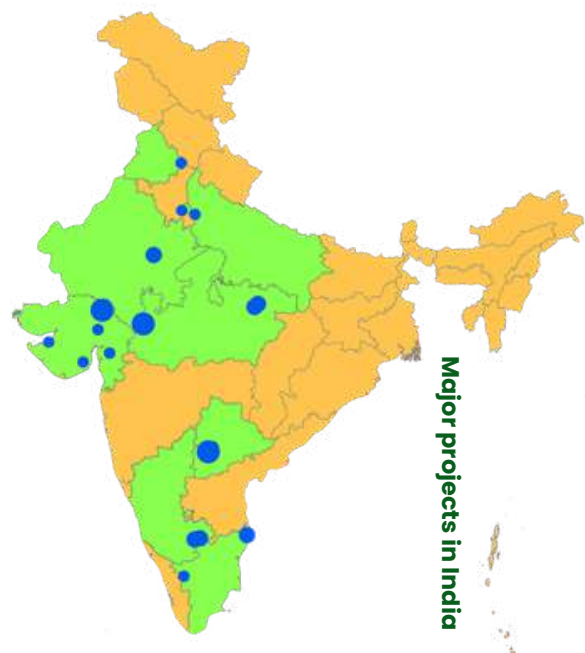
with 77 Crore liters capacity

FBH AN OVERVIEW

An Overview

Forest loss and damage is the cause of around 10 percent of global warming. Through our Forest by Heartfulness program we commit to plant trees in a responsible way, bringing impactful social, economic and ecological benefits.

We partner with global communities to grow, nurture, protect and conserve native, endemic, and endangered tree species while ensuring diversity, sustainability, and longevity.



What we do

DIVERSITY

Through multi location-enabled mini-forests. Guidance of several agroforestry scientists, forest officers, academicians, and conservationists.

SUSTAINABILITY

Focus on native, rare, and endangered species. Diverse plantation style in sync with local ecology. Support from nationwide nurseries to grow highly resilient saplings.

LONGEVITY

Careful selection of identified land. Involvement of local community. Focused aftercare and monitoring using geotagging/satellite imagery/third-party audits.

We are planting millions of trees across India

FBH Projects

2024 – 2025

Our Impact

9 States

30 Projects

27 Partners

320,000

Saplings Planted

100 Million

CSR & Benevity funds received

01 Lake

Rejuvenated

110,000

Plants Geotagged

90,000

Geotagged in Kanha

- One lake successfully rejuvenated in 2024 – 2025.
- A total of **110,000 plants** geotagged, including approximately **90,000** in Kanha Shanti Vanam and its vicinity, and around **20,000** in various other states.
- Conducted eight forestry training sessions and hosted multiple employee engagement events.

CSR & Annual data:

Forests by Heartfulness has undertaken plantation drives in several parts of the country in collaboration with private companies big & small. Our engagements are customized with corporates based on their needs and fitment.



"Forests are among the world's most productive land-based ecosystems and are essential to life on Earth."

Global Forest Goals:

A Framework for Sustainable Forests

The Global Forest Goals are a set of six voluntary, universal goals with 26 targets established by the UN Strategic Plan for Forests 2017–2030 (UNSPF). Adopted by the UN General Assembly in 2017, they provide a comprehensive framework for sustainably managing forests, halting deforestation, and reversing degradation worldwide. These goals are crucial for achieving the Sustainable Development Goals (SDGs), the Paris Agreement, and other international forest commitments.

The Six Global Forest Goals:

1. **Reverse Forest Loss:** Significantly increase forest area (targeting 120 million hectares by 2030) through protection, restoration, afforestation, and reforestation to prevent degradation and combat climate change.
2. **Enhance Forest Benefits:** Improve economic, social, and environmental benefits from forests, including eradicating extreme poverty for forest-dependent people by 2030.
3. **Increase Protected & Sustainably Managed Forests:** Expand the area of protected forests and increase the proportion of forest products from sustainably managed sources.
4. **Mobilize Resources & Cooperation:** Secure significantly increased financial resources and strengthen scientific and technical cooperation for sustainable forest management.
5. **Strengthen Governance:** Promote effective governance frameworks for sustainable forest management, including reducing illegal logging.
6. **Enhance Cooperation & Synergy:** Improve collaboration, coordination, and coherence on forest issues across all levels and sectors.



FBH PROJECTS

2024 – 2025



REV DAAJI PLANTING A TREE AT KANHA SHANTI VANAM WITH PRIME MINISTER NARENDRA MODI JI

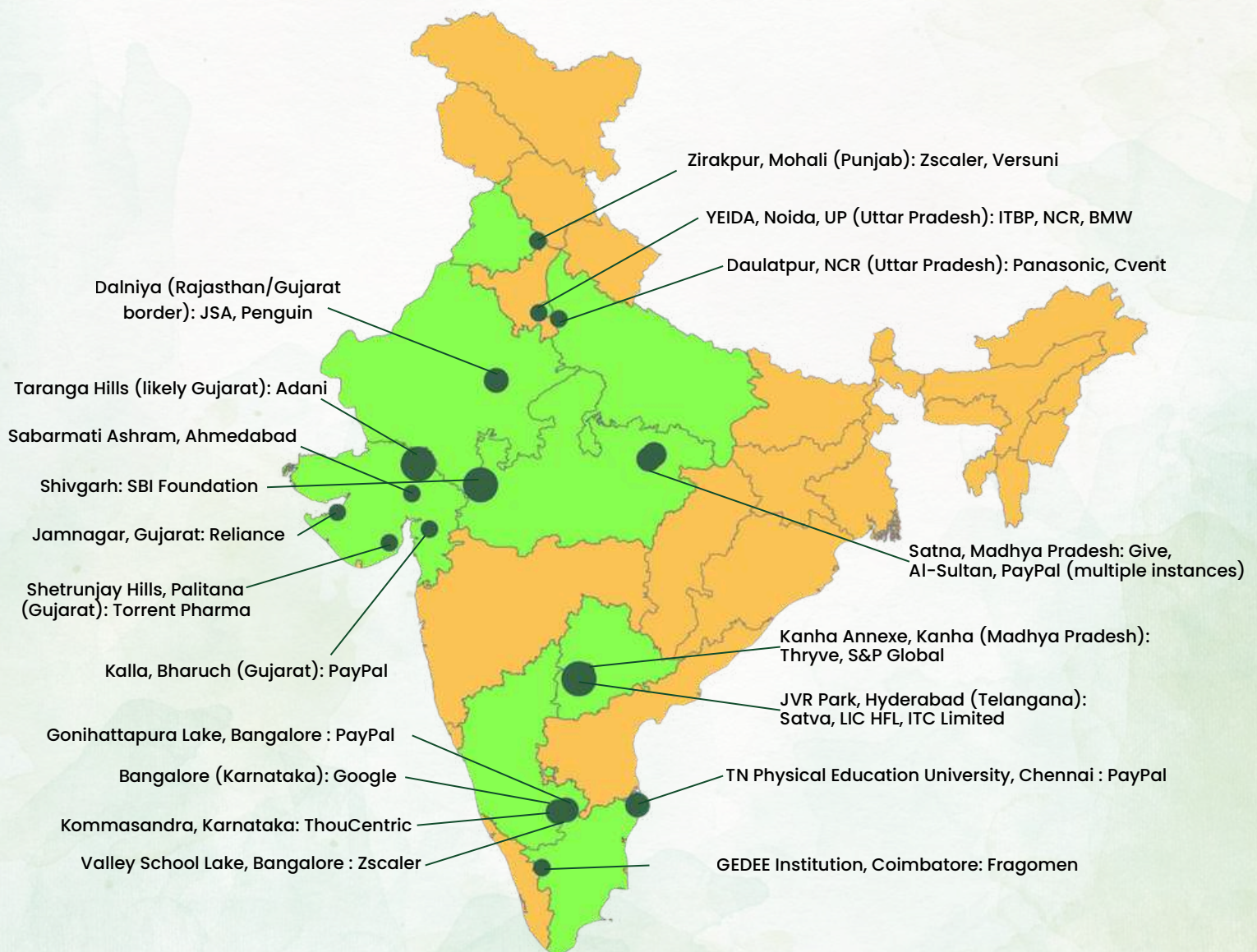
In the past year, we've significantly expanded our reach and impact by forging partnerships with several esteemed organizations. These collaborations have enabled us to launch large-scale projects, critically supported by both Government and Corporate Social Responsibility (CSR) partnerships.

These initiatives are already demonstrating significant positive impact, marking the crucial beginning of a greener change in society. The detailed specifics and achievements of these transformative projects are thoroughly documented and presented within the accompanying report, and consistent enough for future issues.

FBH PROJECTS

Operational Areas: An Overview

Project Locations and Partner Organizations (by region/city):



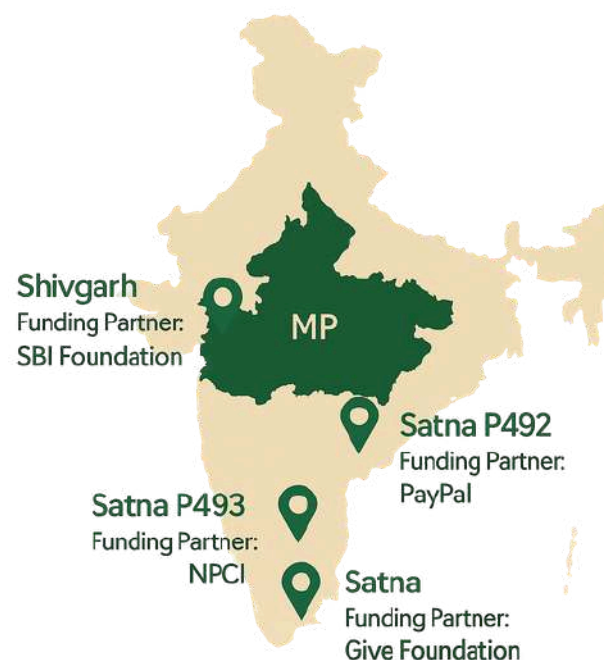
Madhya Pradesh

FBH Projects



In Madhya Pradesh, Forests by Heartfulness is actively restoring green cover through community-led plantation drives and ecological training programs. Partnering with local institutions, the initiative promotes sustainable practices and biodiversity revival across key landscapes.

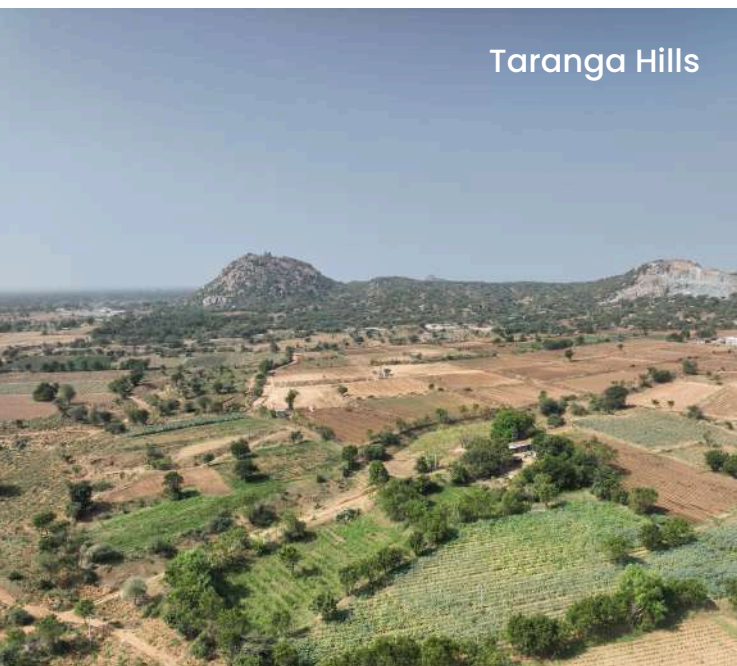
- Shivgarh, Funding Partner: **SBI Foundation**
- Satna P493, Funding Partner: **PayPal**
- Satna P492, Funding Partner: **NPCI**
- Satna, Funding Partner: **Mashreq Bank**
- Satna, Funding Partner: **Give Foundation**



Gujarat

FBH Projects

In Gujarat, Forests by Heartfulness is driving green revival through meaningful collaborations across culturally and ecologically rich sites. From rewilding native flora in Taranga Hills with Adani, to sparking an eco-conscious movement at Sabarmati Ashram with the Gandhi trust, each initiative blends heritage with sustainability. On the sacred slopes of Shatrunjay Hills, Torrent Pharmaceuticals supports ecosystem restoration rooted in spiritual reverence.



Taranga Hills

In Jamnagar's P102 zone and Kalla, Bharuch, Reliance and GIPCL are powering large-scale plantations and community greening efforts. Together, these projects reflect a shared vision of ecological balance and mindful development across the state.

- Taranga Hills: **Adani**
- Sabarmati Ashram: **Gandhi Ashram**
- Shtrunjay Hills, Palitana: **Torrent Pharmaceuticals**
- Jamnagar P102: **Reliance**
- Kalla, Bharuch: **Reliance; GIPCL**

Karnataka, Tamil Nadu & Telangana

FBH Projects

FBH Projects Karnataka

- Gonighattapura, Bangalore,: **PayPal**
- Valley School, Bangalore: **ZScaler**
- SitaramVana, Kommasandra, Bangalore : **Thoucentric**
- KSV employee volunteering: **Micron Technologies**
- Bangalore, Funding Partner: **Google**



FBH Projects Tamil Nadu

- TN Physical Education University, Chennai: **PayPal**
- TN Sports University, Chennai: **Thryve**
- GEDEE Institution, Coimbatore: **Fragomen**



FBH Projects Telangana

- JVR Park, Hyderabad: **LIC HFL**
- JVR Park, Hyderabad: **Sattva**
- JVR Park, Hyderabad: **ITC**
- Meera Pond, Kanha: **S&P Global**
- Kanha Annexe: **Thryve**
- Meera Pond, Kanha: **Thoucentric**



Rajasthan, Punjab, NCR Region & UP Projects



FBH Projects Rajasthan

- Dalniya, Jaipur: **K & S Associate**
- Dalniya, Jaipur: **Penguin India**

FBH Projects Punjab

- Zirakpur Sukhna Choe, Mohali, Chandigarh: **ZScaler**



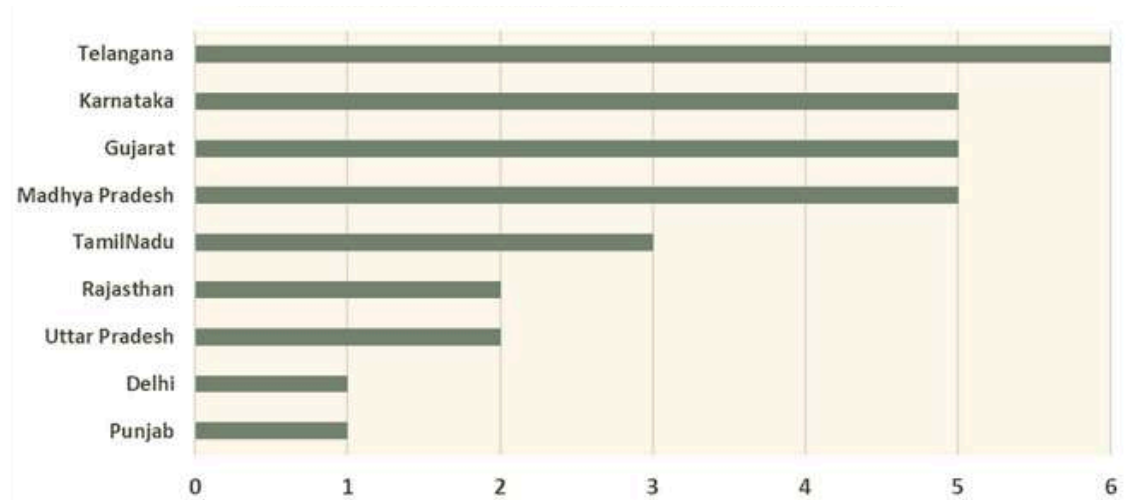
FBH Projects NCR

- Daulatpur, Delhi: **Cvent**
- Daulatpur, Delhi: **Panasonic**

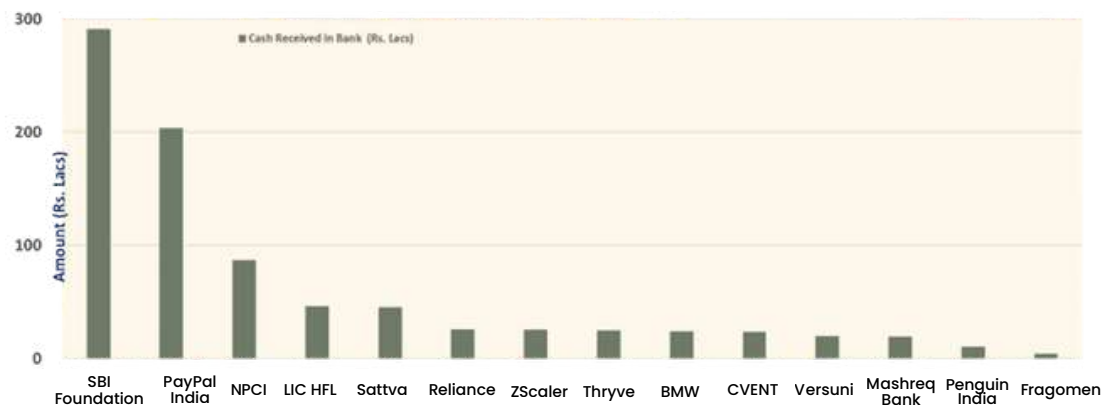
FBH Projects Uttar Pradesh

- ITBP-NOIDA, Uttar Pradesh: **BMW**
- NCR Yamuna Exp Way: **Versuni**

This overview details the **distribution of FBH projects** across states for 2024–2025.



FBH Projects: **Corporate Social Responsibility Funding**





FBH : Forestry Training Programs & Employee engagement events

*This report reflects dynamic engagement in forest training, conservation, research, and plantation activities. With active participation from forest officers, corporate volunteers, and scientific partners, **Kanha Shanti Vanam** continues to make significant strides in ecological restoration, consolidating its position as a model for sustainable environmental practices under the banner of Forests by Heartfulness.*



Forests by Heartfulness Initiatives

- Kanha Shanti Vanam has emerged as a premier center for training, afforestation, conservation, and sustainable environmental practices.
- Guided by the vision of Rev. Daaji, the Forests by Heartfulness (FBH) team continued to expand its reach in forestry training, CSR-driven plantation programs, maintenance efforts, and research initiatives.

Forestry Training Programs

- Between January and March 2025, FBH conducted eight forestry training sessions, building on the momentum established since 2024, during which **1,700 personnel** were trained. In this quarter alone, over 600 forestry personnel participated in intensive, hands-on modules.
- Ongoing support from Maharashtra Forest Department through Shri M.Srinivasa Reddy, Director of Chandrapur Forest Academy, APCC.
- Since September 2023, **2,300 personnel trained at Kanha.**



"Blending ecological restoration with inner transformation, by embracing both green practices and meditation at Kanha Shanti Vanam."



Fifty-three forest guards from **Arunachal Pradesh**, trained at the Forestry Training Institute in Chandrapur, visited Kanha Shanti Vanam to learn about the Forests by Heartfulness (FBH) plantation strategy, restoration processes and greening activities, biochar preparation, nursery techniques, plant selection, tree translocation, and rainwater harvesting techniques. The forest guards were not only eager to grasp these environmental techniques but also expressed interest in participating in meditation practices at Kanha, blending ecological restoration with spiritual well-being.



August 29, 2024 - Sri Bhatti Vikramarka Mallu, Deputy Chief Minister of Telangana visited the Wellness Center and planted a Parijat, Coral jasmine (*Nyctanthes arbor-tristis*) plant, marking his support for the plantation efforts.



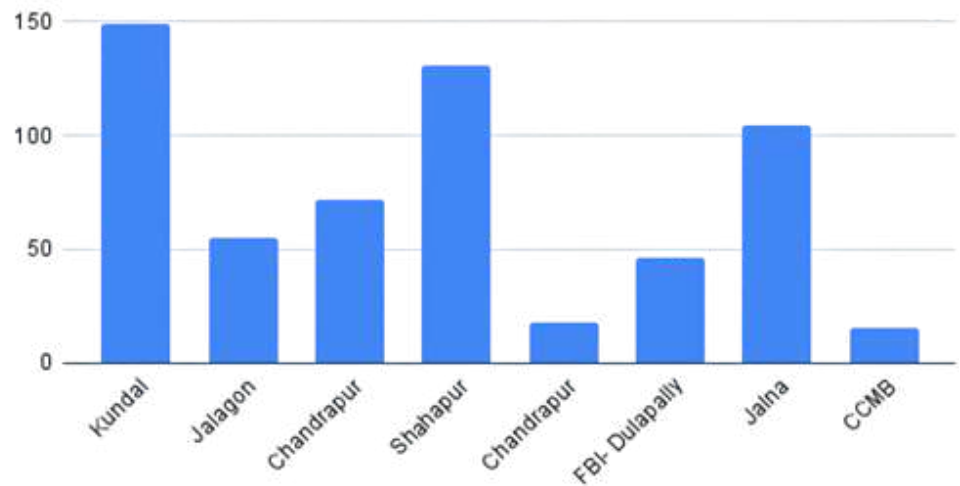
Ualgaoon Forest Guards Visit

The Indian Council of Agricultural Research (ICAR) organized a Conference of Vice-Chancellors, in collaboration with the **Heartfulness Education Trust** under the aegis of Sri Ram Chandra Mission (SRCM), Kanha Shantivanam, Hyderabad with support from Sri Konda Laxman Telangana State Horticultural University from **Sept 6 - 7, 2024**. A special two-day program for **60 Vice Chancellors** from across India was hosted at Kanha.

Revered Daaji took the opportunity to inspire these educational leaders by encouraging each Vice Chancellor to plant a tree in Phase 5 of the greening project. This initiative emphasized the importance of academic institutions playing a leading role in environmental conservation and creating a lasting legacy of sustainability in their respective regions.

Training Highlights : Topics Covered

1. Plantation techniques
2. Rainwater harvesting systems
3. Role of biochar
4. Agroforestry and sustainable forestry practices
5. Rare plant conservation at HTCC
6. Nursery management
7. Ecological restoration strategies
8. Meditation for holistic stewardship



Forests Personnel exposure visit to Kanha during 2024-2025

Impact

- Enhanced partnerships with state forest departments.
- Foundation laid to develop Kanha as a National Forestry Training Hub.



Employee Engagement Events

Forests by Heartfulness (FBH) conducts immersive and hands-on employee engagement events that blend environmental stewardship with meaningful action. By engaging in activities such as guided nature walks, wildlife conservation workshops, and eco-friendly craft sessions, employees not only enhance their knowledge but also develop a profound appreciation for the natural world. These experiences are designed to be both educational and transformative, encouraging individuals to implement sustainable practices in their daily lives and workplaces.



Through collaborative plantation drives, restoration training, and biodiversity initiatives, FBH creates opportunities for corporate teams, government officials, and institutional leaders to actively contribute to greening efforts. From large-scale tree planting with organizations like S&P Global to specialized programs for IFS officers and forest guards, each event is designed to educate, inspire, and build a personal connection with nature. These programs often include nursery techniques, rainwater harvesting, and even biochar preparation—turning participants from passive observers into eco-conscious changemakers.

Date	Program / Visit Participants	Training / Focus
5th July 2024	UNCCD Save Land Initiative: Nearly 2,400 students from 10 schools in Telangana participated in a plantation drive	The students were taught plantation strategies by Forests by Heartfulness (FBH), and activities like planting, watering, and bund formation were successfully completed.
29th August 2024	Deputy Chief Minister of Telangna Sri Bhatti Vikramarka Mallu, visited the Wellness Center at Kanha	planted a Parijat, Coral jasmine (Nyctanthes arbor-tristis) plant, marking his support for the plantation efforts
5th September 2024	Forestry Training for Arunachal Pradesh Forest Guards : Fifty-three forest guards from Arunachal Pradesh visited Kanha Shanti Vanam.	plantation strategy, restoration processes and greening activities, biochar preparation, nursery techniques, plant selection, tree translocation, and rainwater harvesting techniques
6th & 7th September 2024	All India Vice Chancellors' Program : 60 Vice Chancellors from across India was hosted at Kanha Shanti Vanam	importance of academic institutions playing a leading role in environmental conservation and creating a lasting legacy of sustainability in their respective regions
Sep 1, 2024	S&P Global's Field Work for Planting 2000 plants	three-day fieldwork program, during which nearly 1,800 plants were planted
21st & 31st January 2025	40 IFS Officers from various States	key aspects of restoration, rainwater harvesting, plantation strategies, Tissue Culture Lab
8th February 2025	104 Forest Guards from Jalgaon Forest Academy	afforestation and biodiversity conservation
20th February 2025	20 Forest officials (DFO, DCF, ACFs) from Chandrapur Forest Academy	Plantation strategies and tissue culture applications
22nd February 2025	16-member team led by Dr. G. Umapathy from CCMB	potential collaborative research
22nd March 2025	Urban forestry team led by Shri K. Srinivas, IFS from HMDA	nursery and landscape plant procurement

Plantation and Volunteer Events

Forests by Heartfulness Initiatives

This section highlights the diverse training sessions and plantation drives organized by Forests by Heartfulness (FBH) in collaboration with corporates, educational institutions, and local communities. These efforts demonstrate a strong commitment to ecological restoration, environmental education, and inclusive community involvement.

Key Initiatives:

- **Volunteer-led plantation drives** to foster environmental stewardship and expand green cover.
- **Skill-based workshops** on nursery techniques, tree translocation, rainwater harvesting, and sustainable forestry.
- **Collaborations with CSR teams** and forest departments, promoting public-private-community partnerships.
- **Awareness sessions** and hands-on learning to deepen environmental consciousness.

FBH continues to integrate scientific approaches with community-led participation for impactful reforestation.



Corporate & Community Engagement in Plantation Activities

In the last quarter, Forests by Heartfulness (FBH) witnessed robust participation from corporate and community partners in its plantation and training initiatives:

- **Microsoft:** A total of 800 employees visited Kanha Shanti Vanam on 15th, 20th, and 25th October 2024 to participate in plantation drives.
- **S&P Global:** Adopted Meera Pond and engaged 400 employees in plantation activities during October and November 2024.
- **Micron:** 200 employees contributed through plantation and farming activities.
- **Government Training Sessions:** 1,659 forest rangers, foresters, and guards from regions such as Chandrapur, Chikaldara, Amravati, and Jalgaon (Maharashtra) received training, supported by the Maharashtra Forest Department.
- **Community Events:** Tree plantations were integrated into personal celebrations (weddings, birthdays) and supported by corporate events, reflecting grassroots commitment.
- **Wider Corporate Participation:** Events involving **S&P Global, Microsoft, Novartis, and Micron** recorded an additional 1,737 participants, reinforcing the synergy between environmental restoration and CSR initiatives.

These activities underscore the growing momentum behind collaborative environmental action across sectors.

Plantation and Volunteer Events

JULY 2024	●	Thryve Digital  1,500 saplings planted
OCT–NOV 2024	●	S&P Global  400 employees
OCTOBER 2024	●	Microsoft  800 employees
JANUARY 2025	●	Evernorth  190 volunteers
MARCH 2025	●	Granules  Heraland palm tree plantation

28 JULY 2024



Thryve Digital

1,500 saplings
planted

OCT–NOV 2024



S&P Global

Meera Pond,
Kanha Shanti Vanam,
Hyderabad

15, 20 & 25 OCT 204



Microsoft

Employee engagement
and plantation activities

10 JANUARY 2025



Evernorth

North Pond,
Kanha Shanti Vanam,
Hyderabad

5 FEBRUARY 2025



Micron

Nursery Pond,
Kanha Shanti Vanam,
Hyderabad

20 MARCH 2025



Granules

JVR Park,
Engagement event

Plantation and Volunteer Events



5th July 2024: UNCCD Save Land Initiative

Nearly **2,400 students** from 10 schools in Telangana participated in a plantation drive at a ratio of 3 students per plant, with 1,000 plants arranged for the event. The students were taught plantation strategies by Forests by Heartfulness (FBH), and activities like planting, watering, and bund formation were successfully completed.



28th July 2024: Thryve's Support for Greening Activities at Kanha Annex – 1500 trees adopted

Hands in Soil, Hearts for the Planet: Microsoft Benevity's Eco-Journey!



S&P Global Employee engagement event and plantation activities



Agriculture for a Developed India: Sept 2024, The partnership between **Heartfulness** and **ICAR** aims to promote sustainable agricultural practices and engage students and researchers in developing climate-resilient methods that enhance productivity and uplift communities.



Date	Event	Location	Participants
10th January 2025	Evernorth Employee engagement event	North Pond, Kanha Shanti Vanam, Hyderabad	190 volunteers
5th February 2025	Micron Employee engagement event	Nursery Pond, Kanha Shanti Vanam, Hyderabad	100 saplings planted
25th February 2025	PayPal Employee engagement event	North Pond, Kanha Shanti Vanam, Hyderabad	Corporate participation
20th March 2025	Granules Employee engagement event	JVR Park, Hyderabad	Herbal and Palm tree plantation for Green Heartfulness Run
October & November 2024	S&P Global Employee engagement event and plantation activities	Meera Pond, Kanha Shanti Vanam, Hyderabad	400 employees
15th, 20th, and 25th October 2024	Microsoft Employee engagement event and plantation activities	Kanha Shanti Vanam, Hyderabad	800 employees
28th July 2024	Thryve, Digital Communication Employee engagement event and plantation activities	Kanha Shanti Vanam, Hyderabad	1500 saplings planted



Sowing seeds of change, harvesting smiles!



Nursery Pond- **Zscaler**

Successful translocation of the Indian Bat Tree (*Ficus amplissima*) at Nursery Pond, Kanha Shanti Vanam. Transplanted in November 2023, the tree has now established well and begun fruiting, showcasing both the success of the translocation and its adaptation to the environment.



Expansion of Rainforest

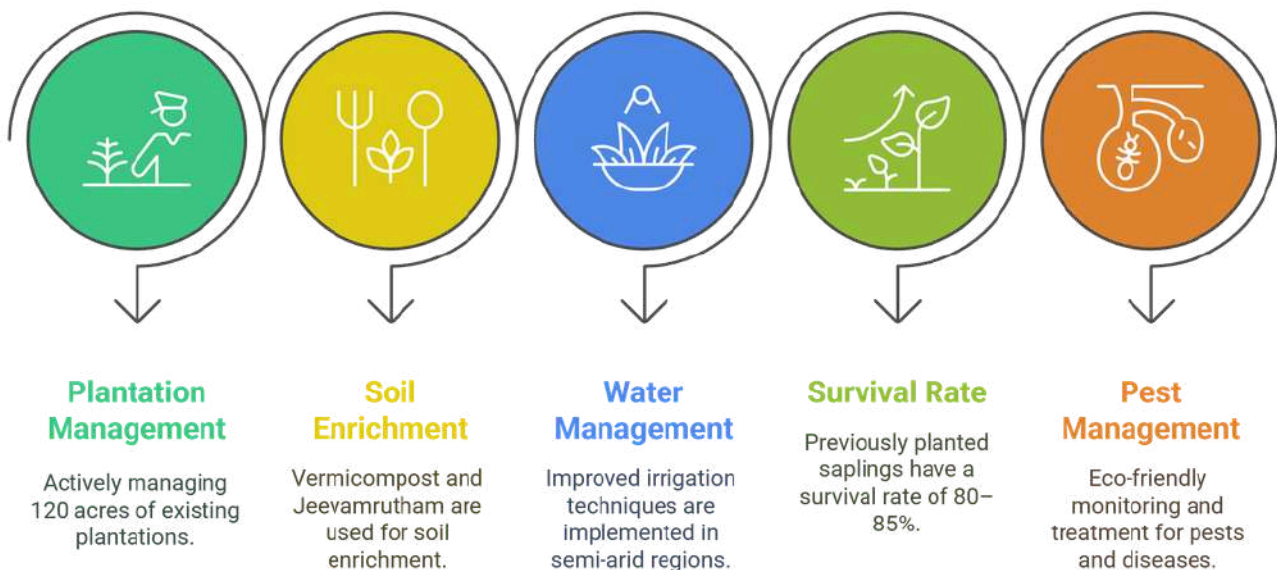
FBH CSR Initiatives

*Through soulful collaborations with leading corporates, **Forests by Heartfulness is breathing life into barren lands,** restoring ecosystems, and nurturing a culture of conscious sustainability. Each sapling planted is a promise—to the Earth, to future generations, and to the spirit of collective action.*



Through its CSR-led afforestation projects, Forests by Heartfulness is fostering ecological revival with purpose and precision. *Over thousands of saplings* have been planted across diverse landscapes in collaboration with committed partners, including PNB, PayPal, and others. In institutional campuses and along Madhur roads alone, more than *7,000 trees* now stand as living testimony to this shared green mission. The impact goes beyond planting—native birds and butterflies have made a comeback, signaling a rise in biodiversity. With a scientific approach to soil and water conservation, including mulching and bund formation, FBh ensures each site thrives sustainably. At the heart of it all lies systematic monitoring, community involvement, and a vision to restore balance—one tree, one region, one partnership at a time.

Plantation Maintenance



Forests by Heartfulness Initiatives

Afforestation Projects

- **Thousands** of saplings planted through various CSR collaborations
- **7,000 saplings** across institutional and Madhur road spaces (Major Projects: PNB & PayPal)

Biodiversity Gains

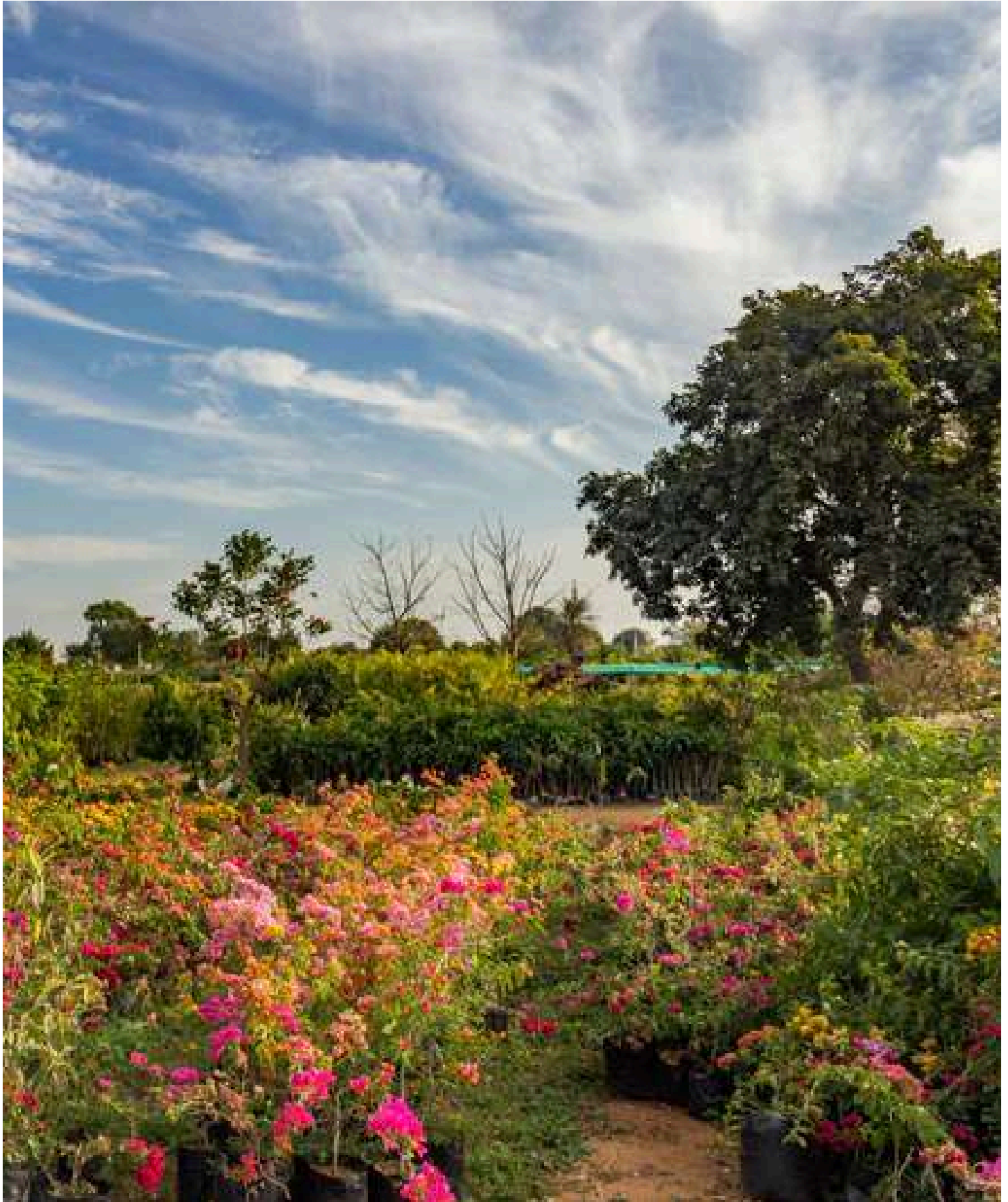
- Increased sightings of native birds and butterflies
- Systematic survival monitoring and ecological enrichment

Soil & Water Management

- Mulching and bund formation to retain moisture

Special Initiatives

1. **Sandalwood plantations:** Introduced suitable host plants
2. **Nitrogen-fixing species:** Integrated pumpkin, pulses, and *Sesbania grandiflora* to enrich soil fertility



Research & Ecological Observations

A prominent **Banyan Tree (*Ficus benghalensis*)** located in the parking area of the **Forests by Heartfulness (FBH)** Office has become a vital ecological hub. It attracts a wide variety of frugivorous bird species, with regular sightings of:

- *Parakeets, koels, mynas*
- *Rosy starlings, coppersmith barbets, golden orioles*
- *Common crows, white-browed and red-vented bulbuls*
- *Treepies and crow pheasants*
- The tree also supports small mammals like *palm squirrels* and *giant fruit bats*, highlighting its role as a keystone species in the local ecosystem.
- Its fruiting season provides a rich food source that sustains diverse wildlife and fosters vital ecological interactions.
- These bird and mammal species contribute significantly to seed dispersal, supporting the natural regeneration of native flora.

Notably, spontaneous germination of fig saplings around the campus indicates active plant-animal interactions and the ecological resilience of the area. Such observations illustrate the intricate interdependence between biodiversity and the ongoing success of ecological restoration at Kanha Shanti Vanam.

Rare Plant Propagation



Tissue Culture

Propagation of Palani Hill Rudraksha at HTCC.



Field Establishment

Planting of *Ficus beddomei* and *Ficus anamalayana*.





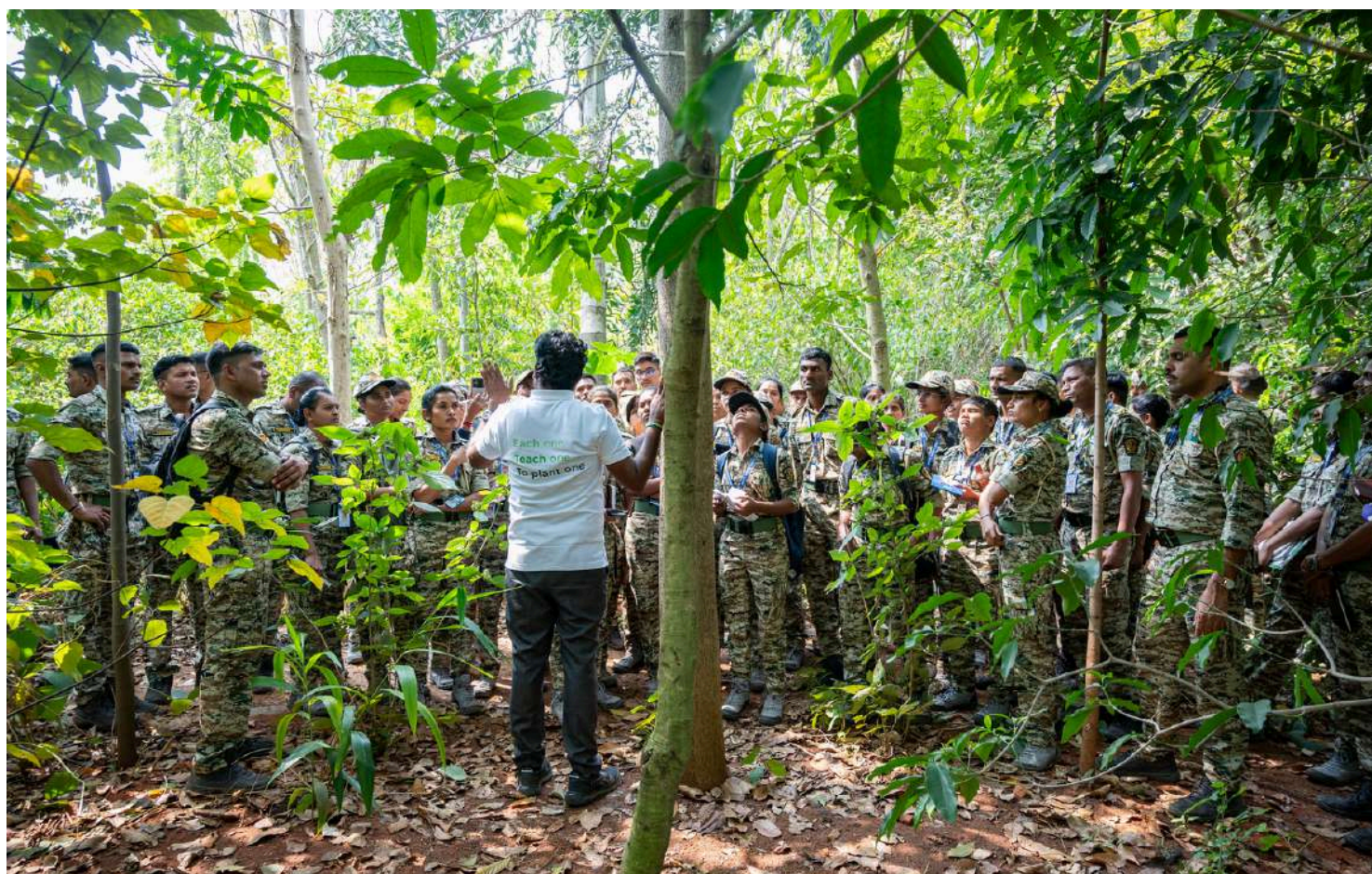


Forest by Heartfulness (FBH) has implemented green and wellness initiatives across 6 Indian states, supported by leading corporates and foundations.

FBH Projects 2024-25 : **State wise Distribution**

Forest by Heartfulness (FBH) has implemented green and wellness initiatives across 6 Indian states, supported by leading corporates and foundations.

- **Gujarat:** Projects at Taranga Hills, Sabarmati, Palitana, Jamnagar & Bharuch funded by Adani, Gandhi Ashram, Torrent, Reliance, and GIPCL.
- **Madhya Pradesh:** Multiple sites in Satna and Shivgarh supported by PayPal, NPCI, SBI Foundation, Mashreq Bank, and Give Foundation.
- **Telangana:** Projects at JVR Park and Kanha backed by ITC, LIC HFL, S&P Global, Sattva, Thoucentric, and Thryve.
- **Karnataka:** Sites in Bangalore funded by PayPal, Google, ZScaler, MICRON, and Thoucentric.
- **Delhi (NCR):** Daulatpur project supported by CVENT and Panasonic.
- **Rajasthan:** Dalniya project in Jaipur backed by K & S Associate and Penguin India.



FBH Projects 2024-25

Gujarat State

FBH Projects Gujarat	
Project Site	Funding Partner
Taranga Hills	Adani



Introduction: Geography & Geology of the Aravalli's

The Aravalli Range, one of the world's oldest mountain systems dating back over 1.5 billion years (Proterozoic era), extends ~670 km in a NE–SW direction from Delhi through southern Haryana and Rajasthan, ending near Ahmedabad, Gujarat. Geologically part of the Indian Shield, it formed through cratonic collisions and now survives as eroded remnants, similar to the Appalachian range in the U.S.

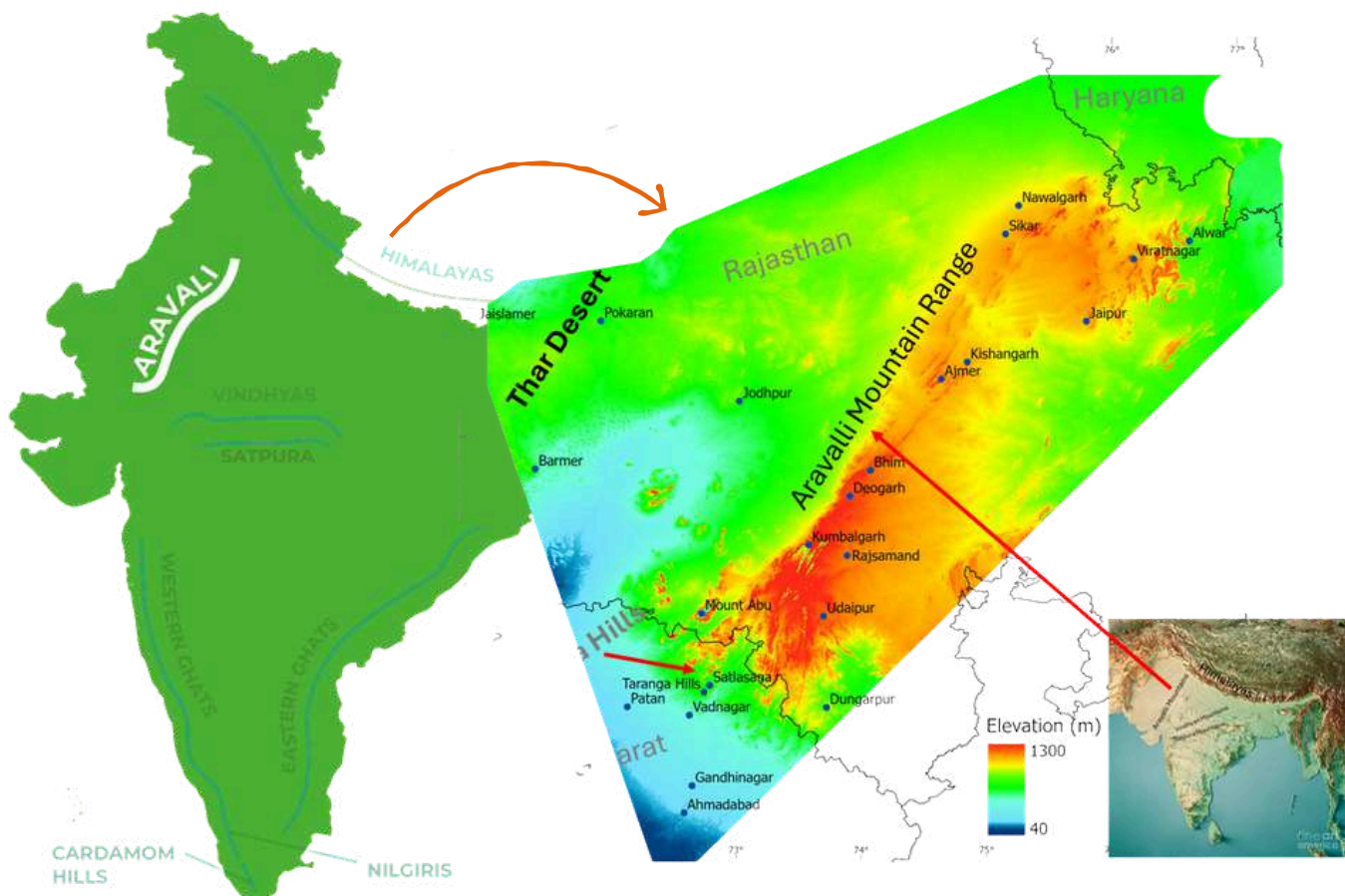
In Delhi, the Aravallis lie beneath layers of alluvium, surfacing occasionally as hillocks like Raisina Hill. The northeastern Aravalli segment, on which Delhi rests, has an average elevation of 400–600 m. Taranga Hills in Gujarat lie at the southwestern end of the range, in Mehsana district.

Significance

- Acts as a natural barrier against the Thar Desert, helping prevent desertification
- Crucial for climate regulation, water recharge, and soil conservation
- Supports diverse flora and fauna across multiple ecological zones

Key Challenges

- Rapid degradation due to mining (granite, marble, quartzite, etc.)
- Loss of fragile soil cover and ancient water systems
- Rampant deforestation and unchecked urban expansion
- Increasing desertification and air pollution risks in densely populated regions



TARANGA HILLS , GUJARAT

World's largest deployment of Rain Guns in an Afforestation project

Large Scale Aravalli Afforestation Initiative : Great Green Wall of Trees

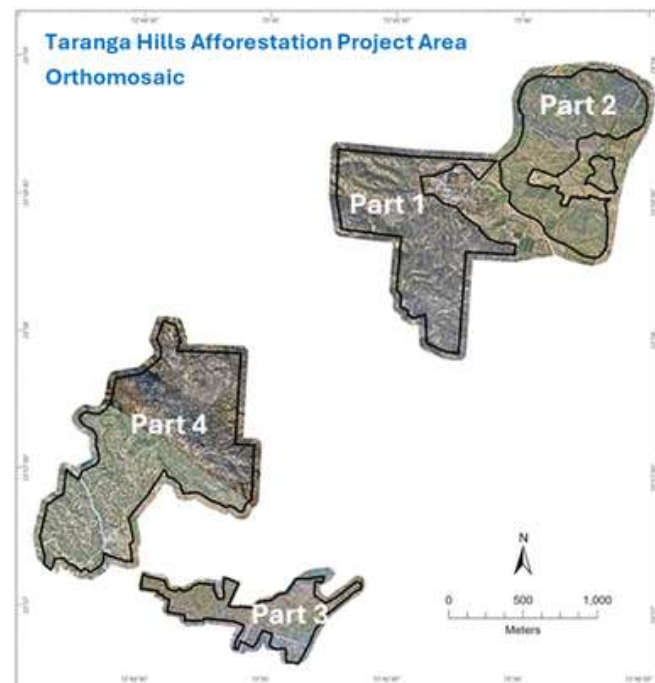
- Taking into consideration the critical role played by Aravalli Mountains in mitigating advancing desertification in NW part of India, and the significant impact on several fronts, the Government of India has envisaged very largescale Aravalli afforestation project spanning four states and about 700 km, similar to the 'Great Green wall' project of the African Union.



With inspiration from the Hon'ble Prime Minister of India, Shri Narendra Modi ji and the support of the Hon'ble Chief Minister of Gujarat

Taranga Hills Afforestation Project

- With inspiration from the Hon'ble Prime Minister of India, Shri Narendra Modiji and Guided by the vision of Rev. Daaji and as part of the above initiative, Forests by Heartfulness (FBH) in collaboration with Adani Foundation, is implementing Taranga Hills Afforestation Project, in a phased manner covering about 350 Ha of degraded forest land.
- It is a large-scale Economical Eco-Restoration initiative aimed at enhancing biodiversity, water conservation, and enhancing capacity building for sustainable development.
- Also, it is the world's largest largest deployment of (≈ 750) of Rain Guns in an Afforestation project.



The Overview

The Taranga Hills Afforestation Project is a large-scale ecological restoration initiative aimed at enhancing biodiversity, water conservation, and local livelihoods. Covering **400 hectares out of** 1,450 hectares in Mehsana, Gujarat, this project is enabling the transformation of the region into a sustainable green zone through afforestation, water conservation, and local employment. With a structured afforestation plan, infrastructure development, and strategic interventions, it has made significant strides in environmental rejuvenation.

Dry & Arid Landscape

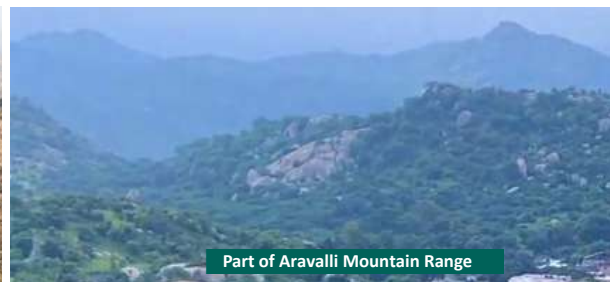
During summers, Taranga Hills experience extreme dryness due to scanty rainfall, high temperatures, and rapid surface runoff. The lack of vegetation cover further accelerates soil moisture loss, rendering the landscape increasingly barren.



Taranga Jain Temple -Siddh Shila & others



Completely dry During summer



Part of Aravalli Mountain Range

Phase I : Achievements & Impact

- Afforested Area: 50 Ha
- Plantation Method : Ultra High-Density (1m x 1m spacing) + Drone Seeding
- Total Plantation : 1.29 lakh saplings | 65,000 seedballs

Infrastructure Developed:

- Fencing: 10,300 RMT
- Water Storage: 4 lakh-litre Pond & 2 lakh-litre tanks
- Irrigation: 4 pumphouses, mechanized drip irrigation

Wildlife Support:

- Hawada & Piyau for Animals / birds
- Maintenance Commitment: Till 2025

World's largest deployment of Rain Guns in an Afforestation project

In Mehsana, Gujarat, one of the most unique **rainforest restoration** projects is unfolding—reviving arid land with the help of cutting-edge **raingun technology**. By simulating rainfall, this initiative is transforming dry terrain into a flourishing, self-sustaining ecosystem.



FBH PROJECTS 2024-25

TARANGA HILLS , GUJARAT

World's largest deployment of Rain Guns in an Afforestation project

Part 1: Total target of **13,100** (Big Plantation: 4,850, Small Plantation: 8,250), Achievement: 0.



Part 2: Total target of **16,200** (Tree Saplings: 6,200, Shrub Saplings: 10,000), Achievement: 8,626 (Tree Saplings: 5,724, Shrub Saplings: 3,352).



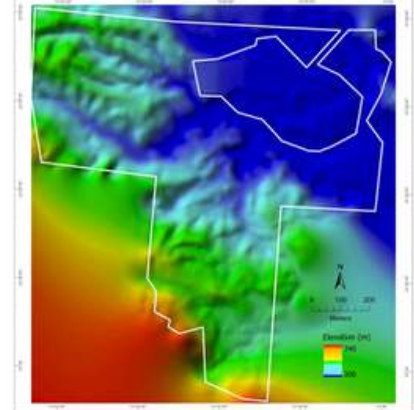
Part 3: Total target of **18,700** (Tree Saplings: 7,200, Shrub Saplings: 11,500), Achievement: 10,040 (Tree Saplings: 6,259, Shrub Saplings: 3,794).



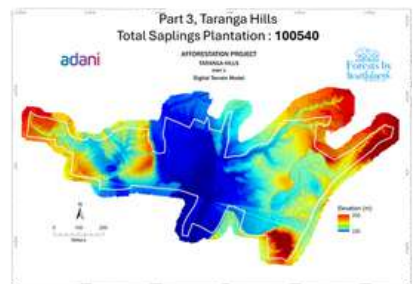
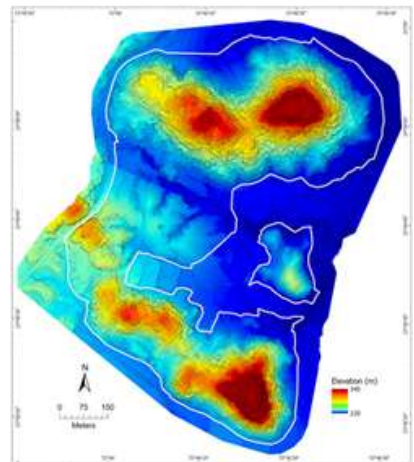
Part 4: Total target of **14,500** (Big Plantation: 5,500, Small Plantation: 9,000), Achievement: 3,050 (Big Plantation: 3,050, Small Plantation: 0).



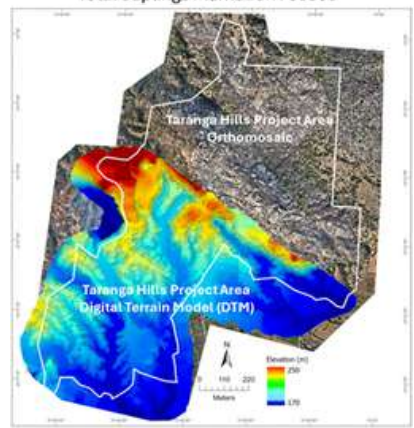
Part 1, Taranga Hills
Total Saplings Plantation : Yet to be commenced



Part 2, Taranga Hills
Total Saplings Plantation : 86263

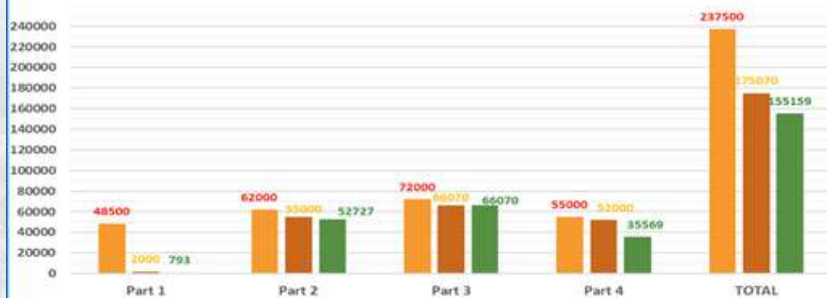


Part 4, Taranga Hills
Total Saplings Plantation : 30500



Taranga Hills : Big Pits Preparation: Part-wise Summary

Big Pit Preparation Target Big Pit Digging Completed Big Pit Preparation Completed



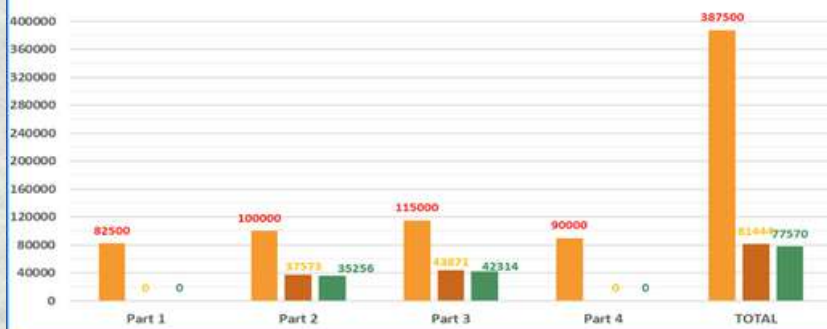
Big Pits Preparation Completed
155159

Big Pits Digging Completed
175070

Big Pits Preparation Target
237500

Taranga Hills : Small Pits Preparation: Part-wise Summary

Small Pit Preparation Target Small Pit Digging Completed Small Pit Preparation Completed



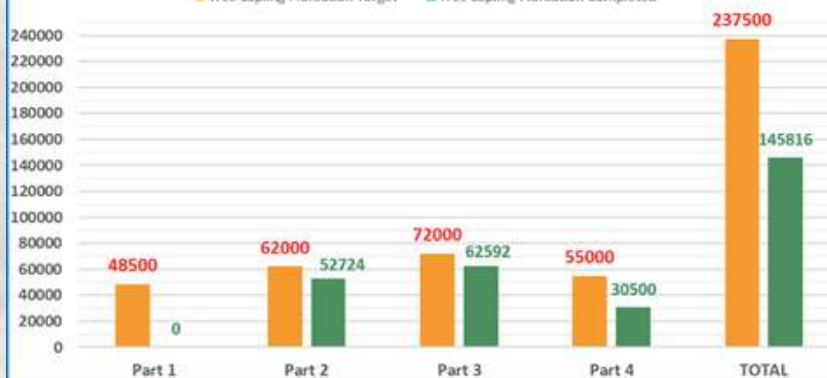
Small Pits Preparation Completed
77570

Small Pits Digging Completed
81444

Small Pits Preparation Target
387500

Taranga Hills : Tree Sapling Plantation : Part-wise Summary

Tree Sapling Plantation Target Tree Sapling Plantation Completed



Tree Sapling Plantation Completed:
145816

Tree Sapling Plantation Target
237500

Taranga Hills : Shrub Sapling Plantation : Part-wise Summary

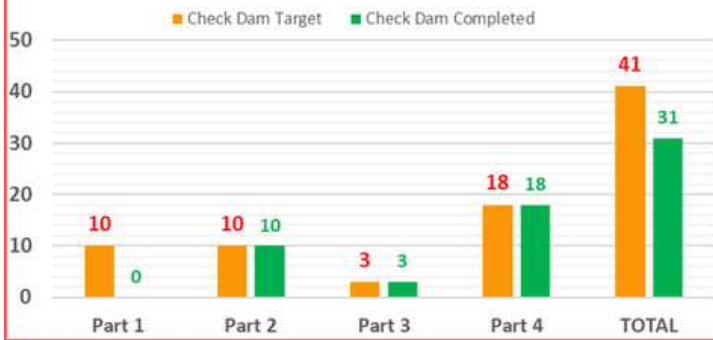
Shrub Sapling Plantation Target Shrub Sapling Plantation Completed



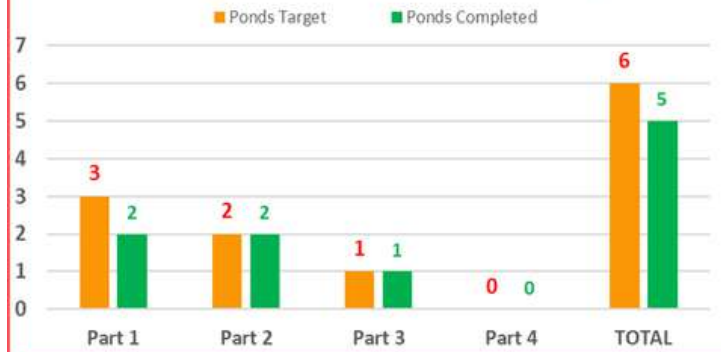
Shrub Sapling Plantation Completed:
71487

Shrub Sapling Plantation Target
387500

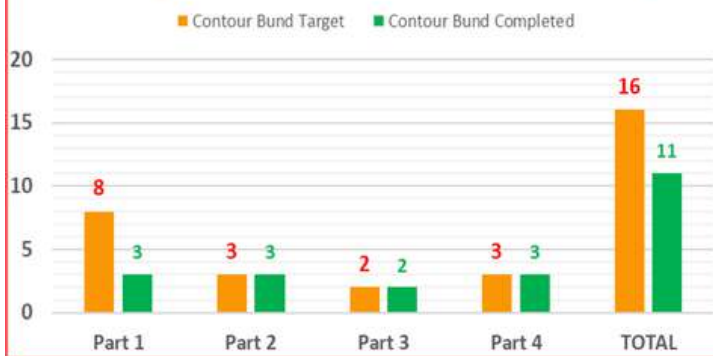
Taranga Hills : Check Dams Part-wise Summary



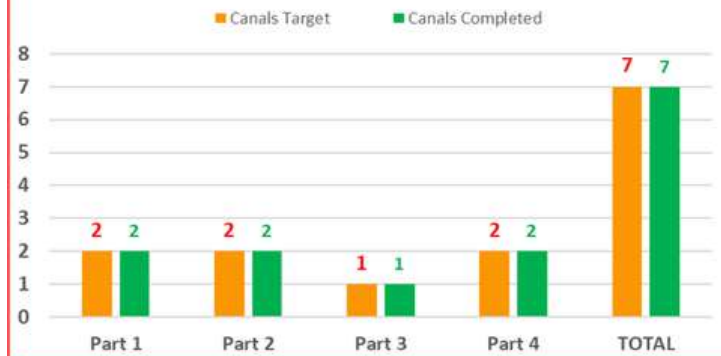
Taranga Hills : Ponds Part-wise Summary



Taranga Hills : Contour Bunds Part-wise Summary



Taranga Hills : Canals Part-wise Summary



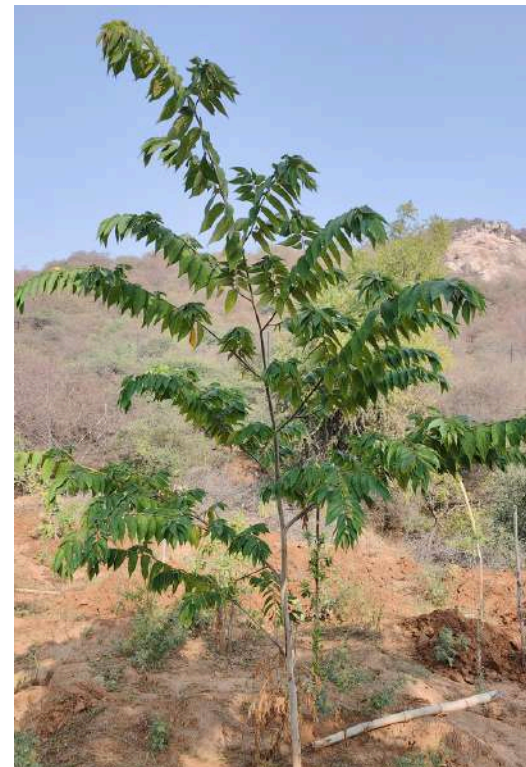
Environmental & Social Impact

Water Conservation & Rainwater Harvesting

- Total Water Harvesting Capacity: **6 crore liters**
- Annual Groundwater Recharge: **15 crore liters**
- Storage Infrastructure: **1.5 crore liters sump capacity**

Employment & Community Development

- Total Man-days Generated: **70000+ since May 2023**
- Local Workforce Engagement: **300+ workers** actively involved
- Security Enhancements: Night guards deployed for site protection







FBH Projects 2024-25

Gujarat State

FBH Projects - Gujarat

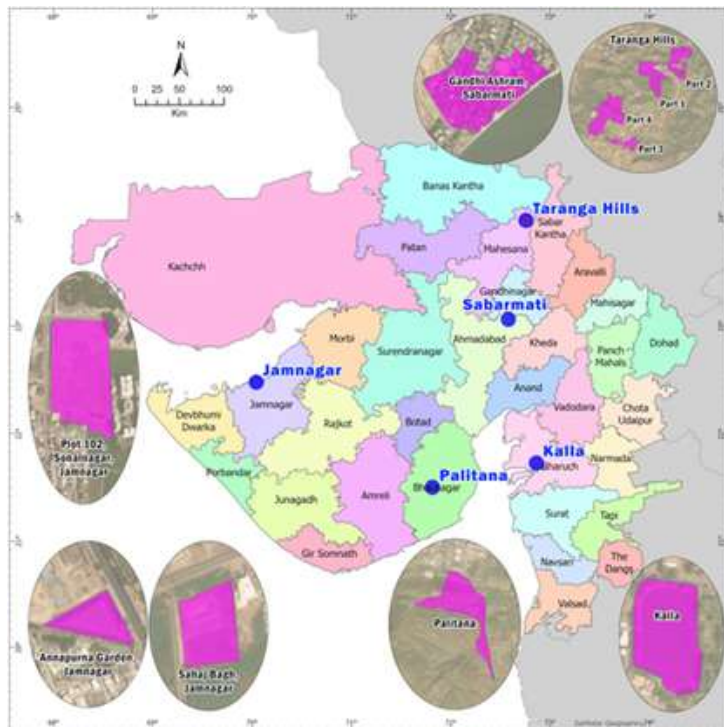
Funding Partner

Taranga Hills, Mehsana

Adani

Sabarmati, Ahmedabad

Sabarmati Gandhi Ashram Trust



Sabarmati Ashram, Ahmedabad

Brief overview

The total area earmarked for ashram redevelopment spans approximately **56 acres (2,28,770 sqm)**. Of this:

- Built-up and service zones cover around **8.2 acres** (33,200 sqm), accounting for 15% of the site.
- Pathways, plaza, and parking occupy **11.5 acres** (47,000 sqm), or 20% of the total area.
- A lake and sand zone is proposed across **3 acres** (12,000 sqm), contributing 5% of the space.
- The remaining **33.7 acres** (1,36,570 sqm)—a significant 60%—will remain as open green area.

1. Peripheral Buffer Plantation

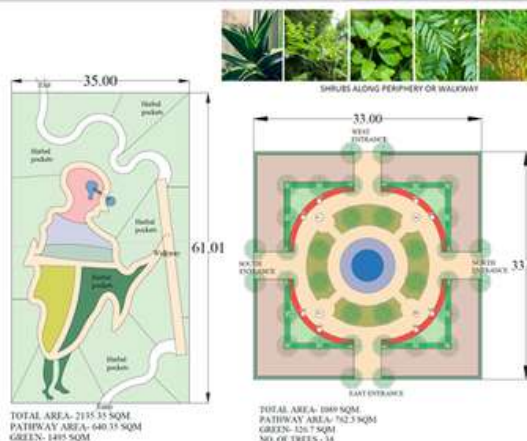
- Concept 1- Stratified Colour
- Concept 2- Stratified Palms and Cycads
- Concept 3- Evergreen (All types of Jamun)
- Concept 4- Water
- Concept 5- Plants of the Deccan Plateau
- Concept 6- Northeast India
- Concept 7- Andaman and Nicobar islands
- Concept 8- Desert plants of India
- Concept 9- Edible wild and domestic
- Concept 10- Bamboos and Grasses
- Concept 11- Thorny plants of India
- Concept 12- Euphorbias (rock garden)
- Concept 13- Ferns and Orchids (enclosed area)
- Concept 14- Timber trees of India
- Concept 15- Creeper and liana garden
- Concept 16- Endangered plants of India
- Concept 17- plants of pollinators
- Concept 18- Figs of India
- Concept 19- Gingers and Banana
- Concept 20- Poisonous plant
- Concept 21- Plant families of India
- Concept 22- Aromatic plants of India
- Concept 23- Jasmines of India
- Concept 24- Sacred trees
- Concept 25- Endemic plants of India
- Concept 26- Star connected trees



Water Bodies are placed in between many trails to maintain the biodiversity of the zone.

ZONE	LENGTH	BREADTH	AREA (SQ.M.)	NUMBER	TYPES
1	60	15	900	7	Concept 1-7
2	45	15	675	8	Concept 8- 15
3	45	9	405	8	Concept 16-23
4	35	5	175	3	Concept 24-26

Buffer Zone is created along the boundary so that the sound and hustle of road side should not impact the ashram. We have proposed a nature walk inside the buffer zone with seating benches and other elements. The various concepts are proposed for plantation of same.



HERBAL GARDEN IS A PLACE DEVOTED TO GROW MEDICINAL AND AROMATIC PLANTS WHICH ARE HAVING PREVENTIVE AND CURATIVE PROPERTIES AGAINST SEVERAL DISEASES OR AILMENTS. MEDICINAL PLANTS ARE CONSIDERED VALUABLE AND IMPORTANT INGREDIENTS WHICH CAN BE USED IN DEVELOPMENT OF LIFE SAVING DRUGS. THEY ARE NATURE'S WONDERFUL GIFT TO US.

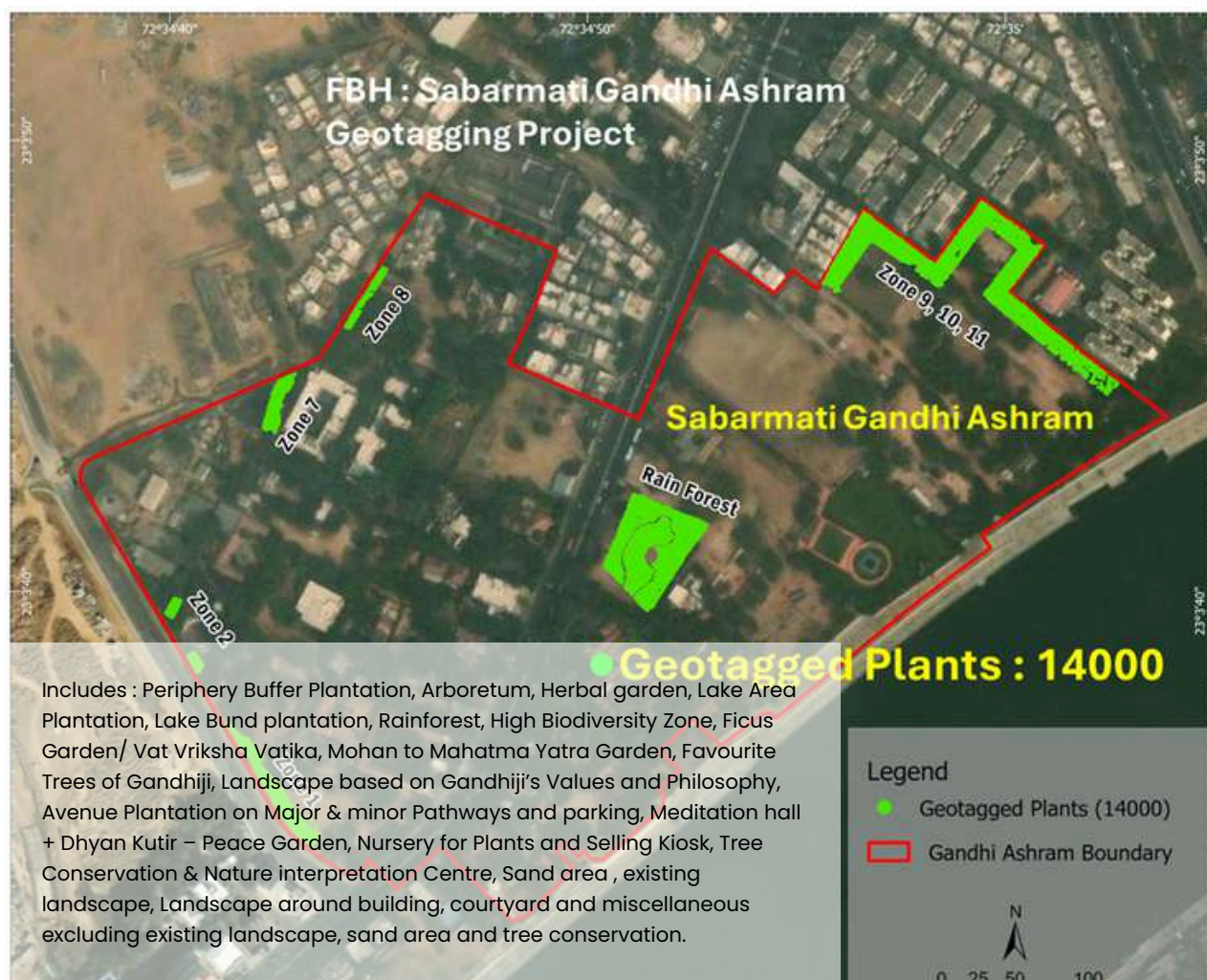
2. ARBORETUM- ALL STATE AND UT TREE AND FLOWERS OF INDIA

PROPOSED GREENERY AND LANDSCAPING WORK AT GANDHI ASHRAM



Revision No: R1
Issued as: Conceptual
Date: 30-05-2024





Plantation and Landscaping Plan

A comprehensive plantation strategy is proposed, to be executed in three phases, covering a rich mix of vegetation across the site:

- Total saplings to be planted: **63,900**
- Large trees: **4,400**
- Medium-sized trees: **6,600**
- Shrubs and understory plants: **52,900**
- Ground covers, creepers, and similar vegetation: **Approx. 1,50,000 units**
- Lawn area: **2.6 acres** (10,815 sqm), constituting 5% of the overall landscape

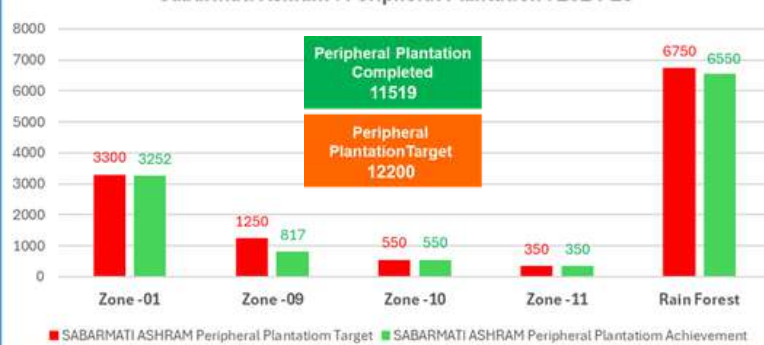




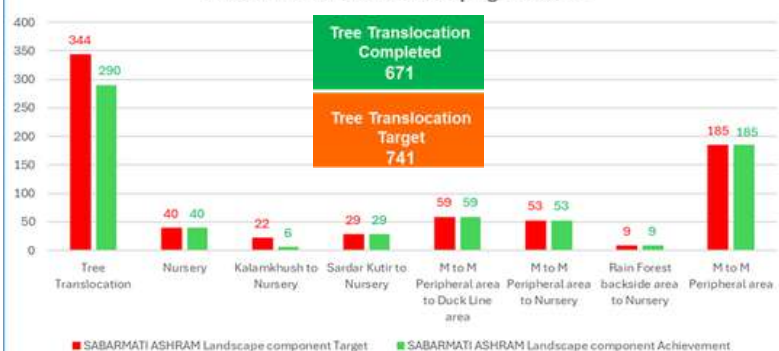
PROPOSED GREENERY AND LANDSCAPING WORK AT GANDHI ASHRAM



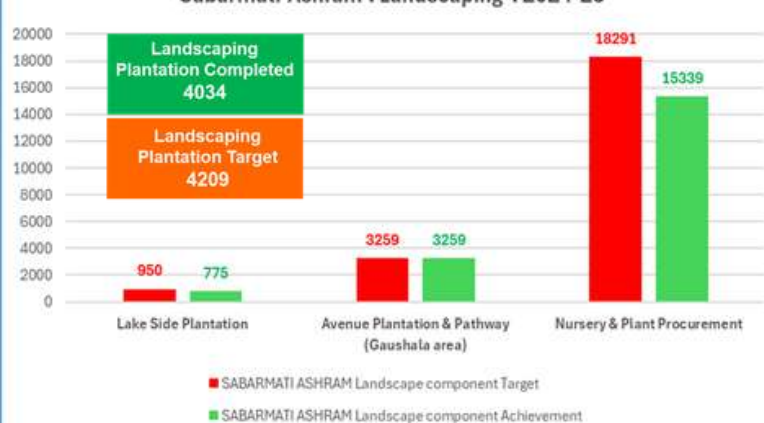
Sabarmati Ashram : Peripheral Plantation : 2024-25



Sabarmati Ashram : Landscaping : 2024-25



Sabarmati Ashram : Landscaping : 2024-25



FBH Projects

Shatrunjay Hills, Bhavnagar District, Gujarat.



Afforestation Initiative by UNM Foundation under Torrent Group

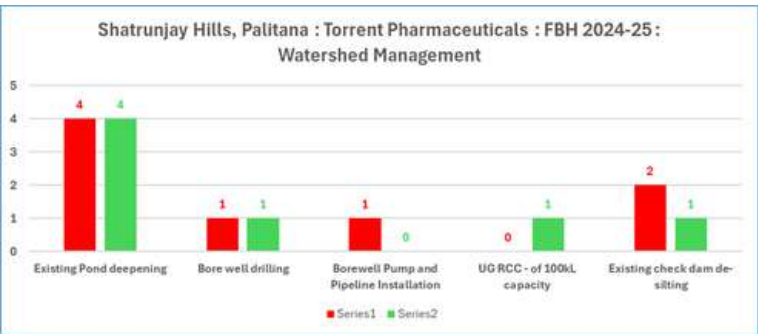
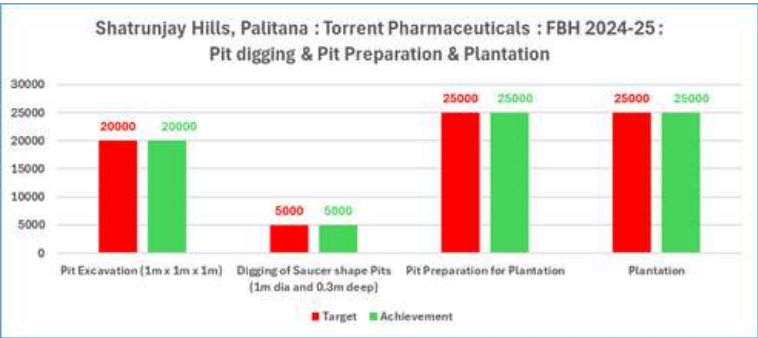
As part of its CSR commitment, UNM Foundation, under the aegis of the Torrent Group, has entered into an agreement with the Government of Gujarat to undertake an afforestation project at the Shatrunjay Hills in Palitana. This initiative is being implemented in collaboration with the Forest & Biodiversity Heritage Trust (FBH).

The total proposed area for afforestation is approximately 400 hectares, with Phase 1 covering 40 hectares.

Phase 1 Highlights

- Afforestation Area: **40 Ha**
(Site clearance of 32 Ha through both mechanical and manual pruning)
- Chain-Link Fencing: **4,511 RMT**
- Pathway Construction & Dressing: **5,357 RMT**
- Saplings Planted: **25,000**
- Borewell Drilled: **1**
- Existing Ponds Deepened: **4**
- Check-Dam De-silting: **1**
- UG RCC Water Storage Sump: **1 (Capacity: 100,000 Litres)**

This collaborative afforestation drive aims to restore the ecological balance of the sacred Shatrunjay Hills and promote long-term environmental sustainability in the region.



FBH Projects

Jamnagar, GUJARAT

Biodiversity Park – Sonal Nagar, Plot 102, Jamnagar

A transformative urban greening initiative has been launched at Plot 102, Sonal Nagar, Jamnagar, covering an area of approximately 8 acres. The site is being developed into a mini dense forest as part of a collaborative effort between Forests by Heartfulness (FBH), the Government of Gujarat, and Reliance Industries.

The project was initiated on **29th January 2025** and includes a three-year maintenance commitment.

Given the region's acute water scarcity, the Jamnagar Municipal Corporation has stepped in to ensure a reliable water supply for the project.

As part of this support:

- The Corporation has committed to supplying water regularly for sapling irrigation.
- Civil works have been initiated to construct an underground RCC water storage sump with a capacity of **1,00,000 litres**. Plumbing and piping will be completed in Phase-2.

Plantation Progress

- Phase-1 (Jan–Mar 2025):
 - Tree saplings planted: **4,893**
 - Target plantation: **15,500 saplings**
- The remaining saplings will be planted during Phase-2.

This initiative is a step toward restoring biodiversity, enhancing urban green cover, and promoting ecological sustainability in the heart of Jamnagar.



Urban Greening Initiatives: Hapa and Annapurna Gardens

1. Hapa Garden

- Total Area: **1 Acre**
- Saplings Planted (2023–24):
 - Tree Saplings: **1,000**
 - Medicinal Plants: **1,600**
 - Shrubs: **7,300**
- Cumulative Plantation (up to 2024–25): **11,290 saplings**
- Flood Damage Recovery:
 - An additional **2,600 saplings** were planted to compensate for monsoon-related losses.

2. Annapurna Garden

- Total Area: 1.1 Acres
- Saplings Planted (2023–24):
 - Tree Saplings: 995
 - Medicinal Plants: 430
 - Shrubs: 7,300
- Cumulative Plantation (up to 2024–25): 5,980 saplings
- Flood Damage Recovery:
 - An additional 1,090 saplings were planted to restore losses due to seasonal flooding.

These efforts reflect an ongoing commitment to urban afforestation, biodiversity enhancement, and ecological restoration, even in the face of climatic challenges like seasonal flooding.

- Managed and nurtured by *Forests by Heartfulness*, both **Hapa** and **Annapurna** Gardens stand as vibrant green oases within Jamnagar's urban landscape.
- Owned and supported by the **Jamnagar Municipal Corporation**, these gardens are strategically located to offer easily accessible green spaces that promote well-being, biodiversity, and environmental awareness.
- They significantly contribute to enhancing the **quality of life for the city's residents**, offering spaces for relaxation, ecological education, and community connection.

WATERING OF SAPLINGS



Community Benefits

The transformation of **Hapa** and **Annapurna Gardens** highlights the impact of community-driven greening initiatives. Through strong partnerships between Forests by Heartfulness, Jamnagar Municipal Corporation, and local corporate collaborators, these once-ordinary spaces have been revitalized into thriving urban gardens.

These green spaces now serve as community hubs, allowing residents to reconnect with nature, unwind, and foster a collective sense of well-being. Beyond beautification, the gardens play a vital role in enhancing Jamnagar's overall green cover and ecological resilience.

Sustainable Aftercare

Recognizing the challenges of water scarcity, the Jamnagar Municipal Corporation has taken proactive measures to ensure sustainable water management for both gardens. Regular water supply and infrastructure support have been put in place to maintain the vitality of these green spaces year-round. This long-term commitment ensures that the gardens remain lush, self-sustaining, and environmentally friendly, reinforcing their role as symbols of urban ecological balance, environmental consciousness, and community well-being.

FBH Projects

Kalla, Bharuch, GUJARAT



Pond Rejuvenation Project

A **4-acre** pond in Kalla village, located in the Bharuch District of Gujarat, has been identified for comprehensive redevelopment due to its current polluted and non-functional condition. The rejuvenation plan is designed to restore the ecological health and community utility of the pond, and includes the following key components:

- **Boundary Fencing** for protection and defined access
- **Avenue Plantation** to enhance the surrounding landscape
- **Bund Strengthening and Plantation** to prevent erosion and support biodiversity
- **Wetland Development** to improve water quality and habitat creation
- **Dedicated Lotus Pond Area** to enrich aesthetic and ecological value

Pond Rejuvenation

Revitalizing ponds to improve water quality and ecosystem health.



Biodiversity Enhancement

Increasing the variety of plant and animal life in the area.



Avenue Plantation

Planting trees along roads to provide shade and improve aesthetics.



Highlights of the Planned Development – Kalla Village Pond

This detailed redevelopment plan is designed to restore ecological balance, enhance the landscape, and revive the pond's utility for both biodiversity and the local community.

Development Component	Area / Length
Boundary Fencing	460 meters
Avenue Plantation	1,973 sq.m
Bund Plantation	2,976 sq.m
Wetlands Development	807 sq.m
Lotus Pond	236 sq.m



Pond deepening and desilting work in progress



Canal Desilting work in progress

Vadnagar Green Initiative



Ongoing Project: Phased completion by **2026**

Eight culturally significant heritage sites have been identified, with dedicated support being extended to enhance them through eco-friendly interventions —such as the revitalization of water bodies, sustainable landscaping, and green infrastructure integration.



The Vadnagar Green Initiative is a large-scale ecological and urban sustainability project aimed at transforming Vadnagar into a **"Water Intelligent City"** while preserving its cultural heritage. Spearheaded by the Heartfulness Institute, this initiative focuses on rejuvenating water bodies, enhancing biodiversity, and integrating green infrastructure into key heritage sites. With structured afforestation efforts, water conservation measures, and sustainable urban planning, the project is driving significant environmental improvements.

Location : Vadnagar, Gujarat

Status : **Phase 1 Completed**, Phase 2 completion by **2026**

Focus Areas : Lake Rejuvenation



Key Project Highlights

- Total Sites Identified: **8 cultural heritage sites**
- Active Afforestation Areas: **4 sites under development**
- Total Saplings Planted: **21,898+ saplings (trees and shrubs)**
- Ponds Created: **4 (Lotus ponds, water conservation pits, and small ponds)**
- Lake Rejuvenation: **Vishnupuri Talaab, Ambaji Kotha Talab, Lateri Vav**
- Key Infrastructure: **Walkways, thematic gardens, bund strengthening, fencing, and footpaths**
- Completion Timeline: Ongoing, phased completion by 2026

Achievements & Impact:

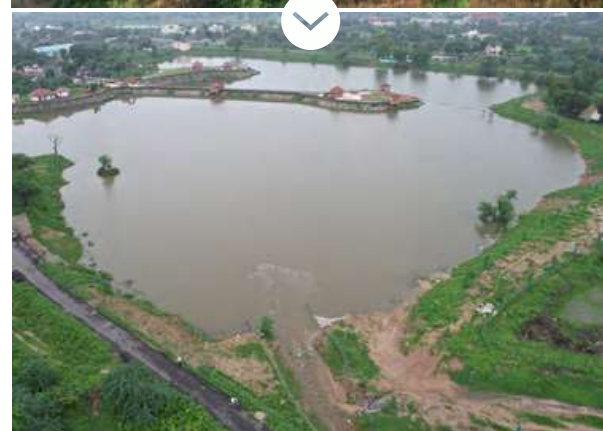
Phase 1

- 
Lateri Vav Restoration
- 
Ambaji Kotha Talab Restoration
- 
Vishnupuri Talaab Rejuvenation
- 
Toran Hotel Green Landscape Development

- **Vishnupuri Talaab:** Expanded water capacity from 6.6 to 15 crore liters with desilting, bund reinforcement, wetlands, and 7,800+ saplings. Floating fountains and aquatic restoration added.
- **Lateri Vav:** Historic stepwell preserved with sustainable landscaping, 2,198 shrubs planted, drip irrigation, 650m fencing, and two ponds under construction.
- **Ambaji Kotha Talab:** Ongoing lake cleaning, canal maintenance, and 6,000 saplings planned; plastic-free zone being established.
- **Toran Hotel Greens:** 2-hectare area converted into a lush green space with 5,900+ saplings, lotus ponds, medicinal gardens, Dhyan Kuti (Silence Zone), and walking tracks.



Ambaji Kotha Talab



Phase II – In Progress

(Gauri Kund , Kriti Toran, Shamistha Talaab, City Forest Vadnagar)

- City Forest Vadnagar
- Expansion of biodiversity conservation and afforestation
- Advanced water retention and conservation infrastructure
- Community-driven environmental education programs
- Strengthening Vadnagar's role as a model green city

In Phase II, we require assistance from the local administration to ensure the successful execution of upcoming projects.

Environmental & Social Impact

Water Conservation & Rainwater Harvesting

- Increased water retention capacity through restored lakes and ponds
- Sustainable water management for urban resilience

Employment & Community Development

- Engagement of local workforce in afforestation and restoration efforts
- Educational initiatives to promote long-term environmental stewardship

Project Outlook

The Vadnagar Green Initiative is setting new benchmarks for sustainable urban development and ecological preservation. Through continued efforts in afforestation, water conservation, and cultural heritage restoration, Vadnagar is on track to become a model for green cities across India.

By 2026, the initiative aims to:

- Fully restore key water bodies
- Expand green cover across heritage sites
- Enhance community participation in sustainable practices



Vishnupuri Talaab



Before



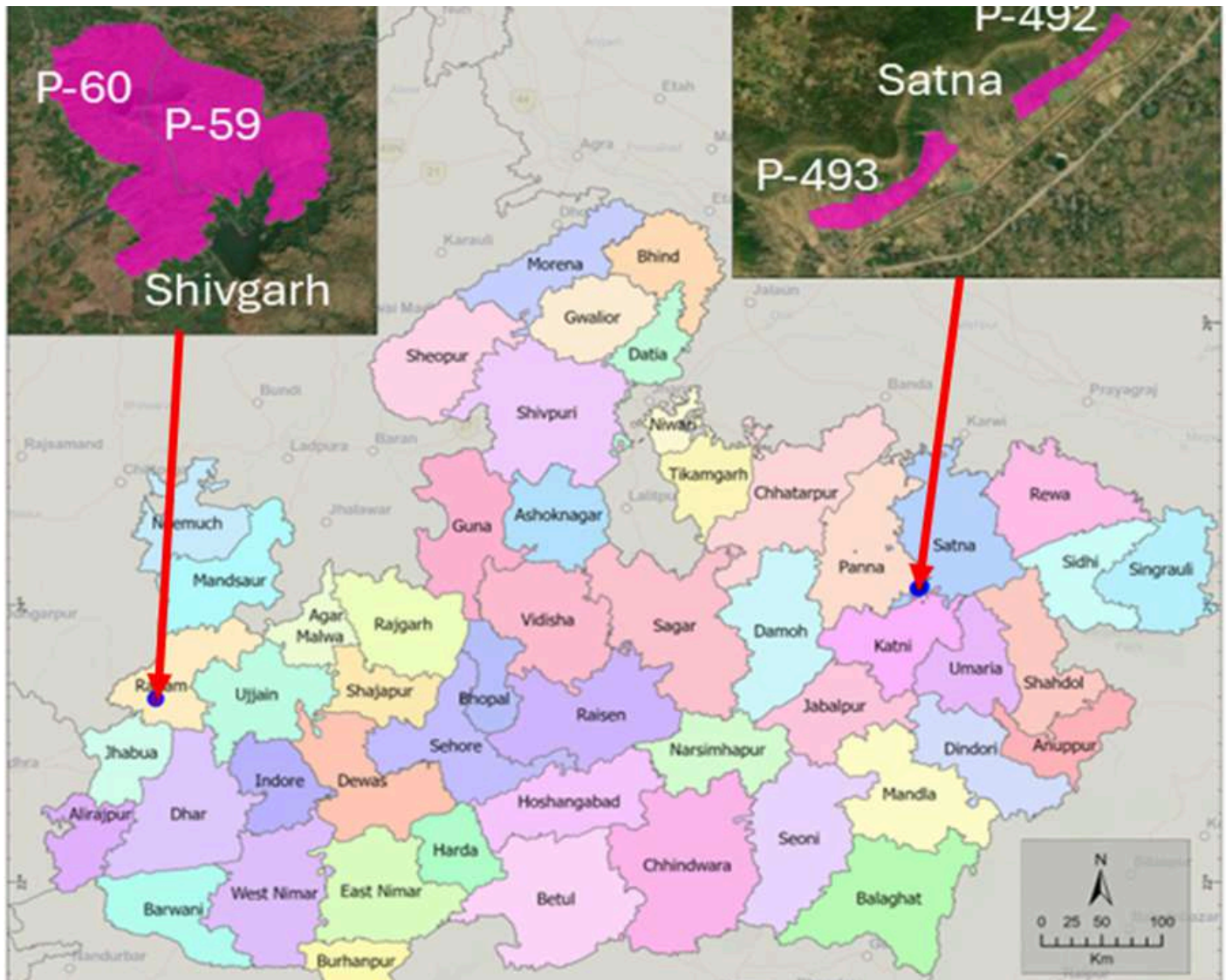
After



Toran Hotel



Lateri Vav



FBH Projects : **MADHYA PRADESH**

Forests by Heartfulness (FBH) has been actively advancing ecological restoration efforts across Madhya Pradesh through multiple afforestation and biodiversity initiatives. In collaboration with key funding partners, FBH has initiated projects at various sites including Shivgarh and Satna (P492, P493, and others). Esteemed organizations such as SBI Foundation, PayPal, NPCI, Mashreq Bank, and Give Foundation have come forward to support these green endeavors. These projects are not only enhancing the state's green cover but also fostering environmental awareness and sustainable community engagement.

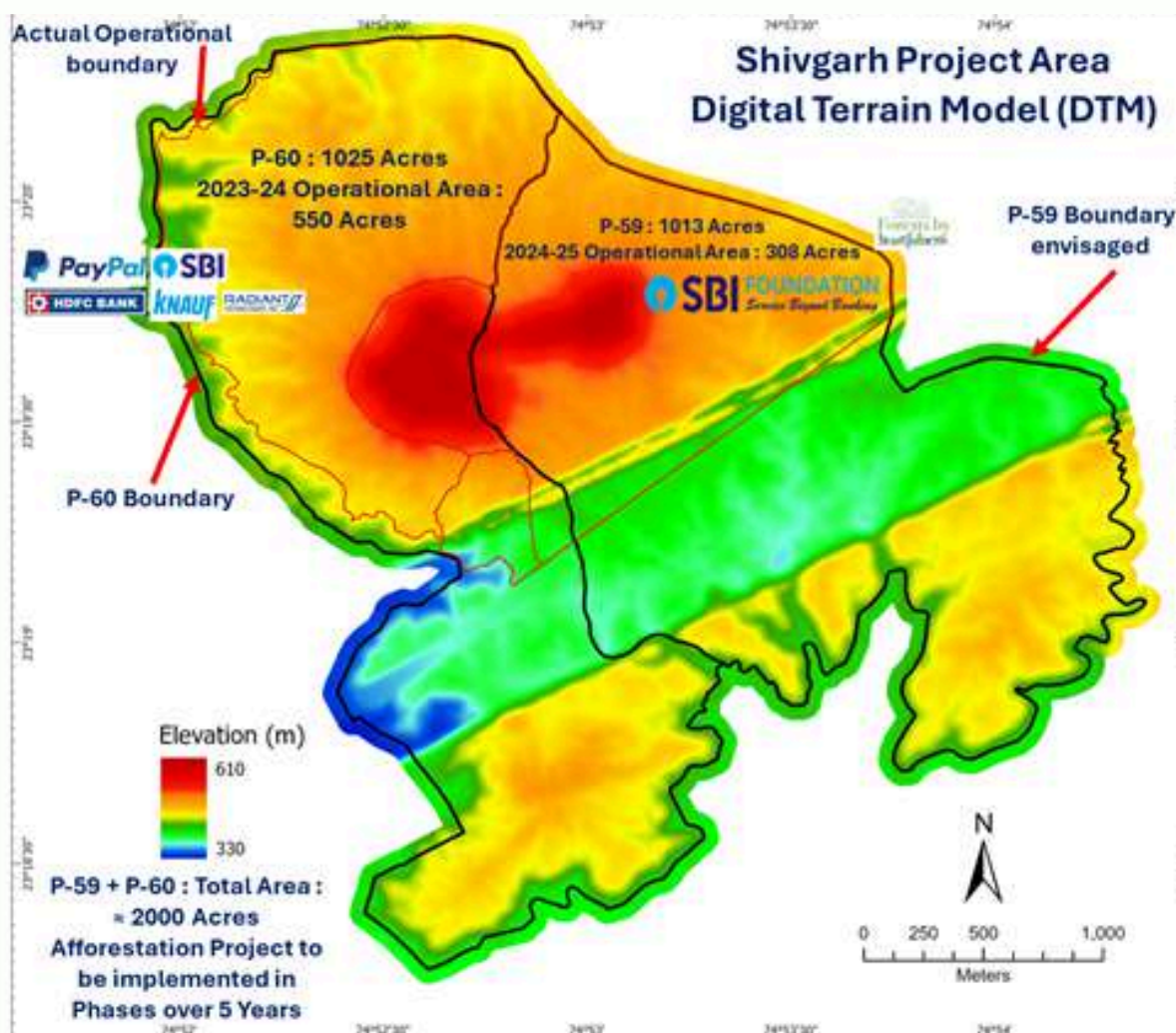
Shivgarh: A Landmark Afforestation Initiative

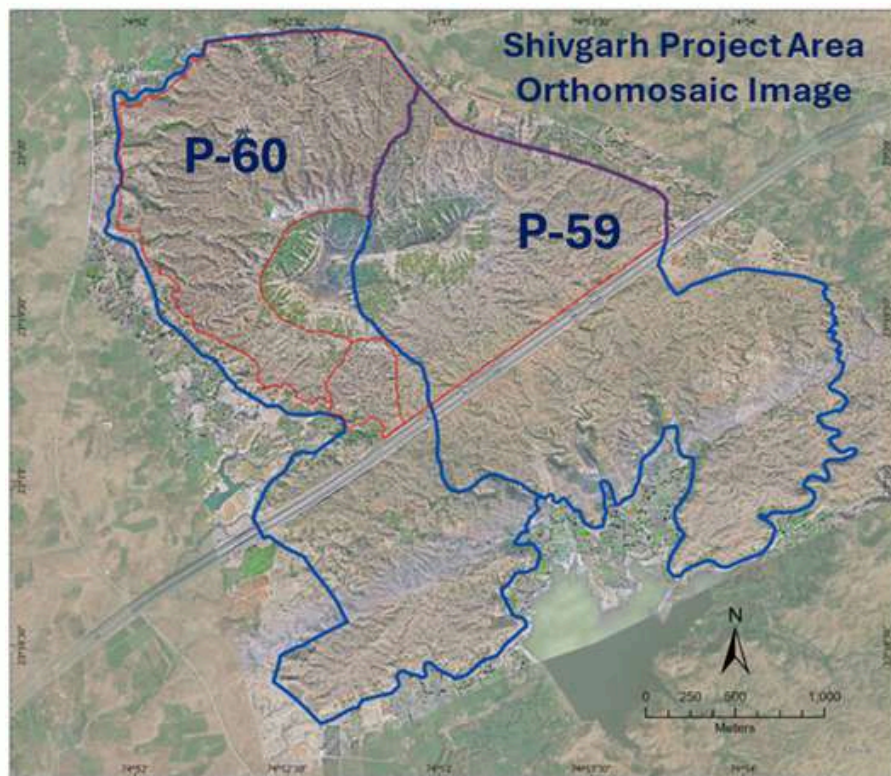
The Shivgarh project represents a large-scale ecological restoration effort, covering **2,000 acres** of degraded scrubland classified as Protected Forest (PF) with less than 10% vegetation density. The site, divided into two key zones, is undergoing revitalization through water conservation, soil enrichment, and extensive plantation of native species indigenous to Madhya Pradesh.

This initiative delivers multiple benefits:

- Enhances regional biodiversity through habitat restoration
- Mitigates air and noise pollution caused by the Delhi-Mumbai 8-lane Expressway that passes directly through the area
- Promotes long-term carbon sequestration, contributing to climate resilience
- Engages local communities through Joint Forest Management Committees (JFMCs) and participation from 14 nearby villages
- Empowers rural populations via training programs and skill-building sessions (10 training events conducted)
- Mobilizes citizen participation through volunteer-led plantation and after-care campaigns

The Shivgarh project stands as a model for integrated environmental and social impact, blending ecological restoration with community empowerment.





Dignitary Visit to Shivgarh Forest Project

A high-level delegation comprising the **Commissioner of Ujjain Division, District Magistrate (Collector)** of Ratlam, **CEO of District Panchayat, Janpad CEO, SDM Sailana, DFO, Ranger Officer, Patwari**, and the **Revenue Department team** visited the Shivgarh afforestation site, accompanied by the Forest Department team.

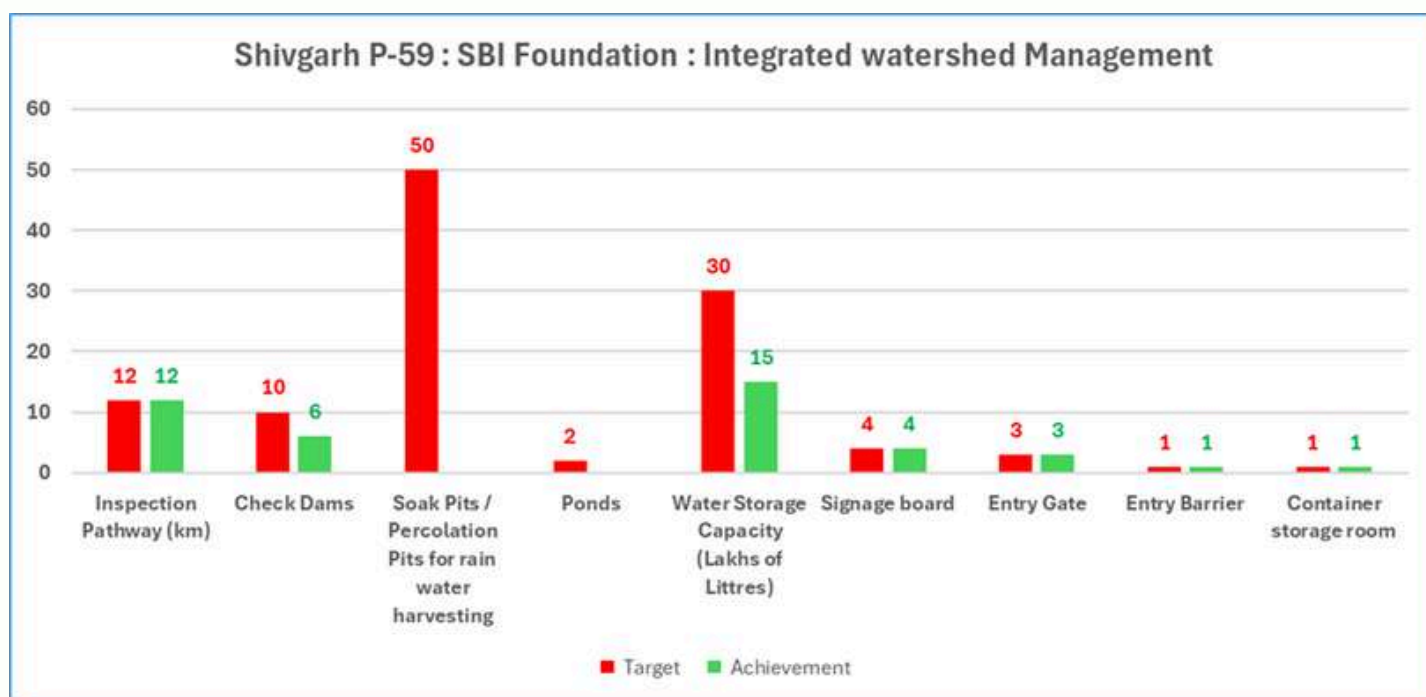
During the visit, the **District Magistrate of Ratlam**, along with the **CEO of District Panchayat** and several senior officials, actively participated in plantation activities, showcasing their commitment to ecological restoration and community-driven conservation efforts.



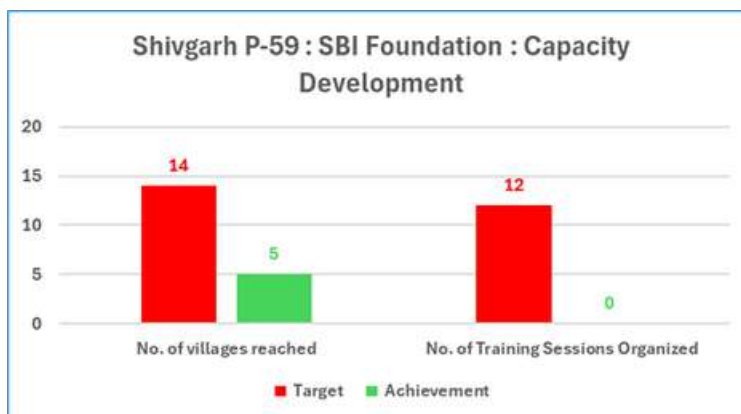
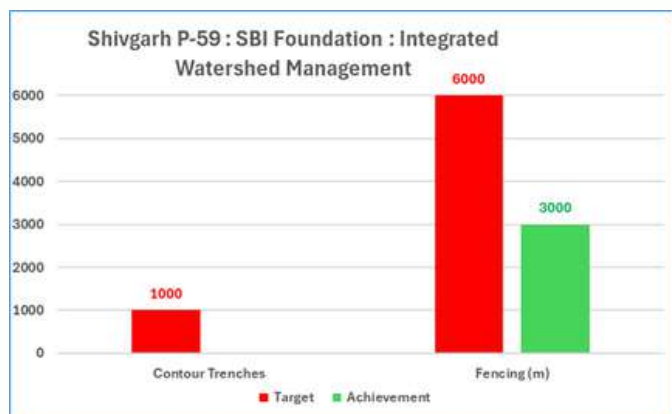
Google Earth Image (Oblique view) with Vertical exaggeration 1:3



Water Storage Capacity Completed: 15 Lakh Liters
Water Storage Capacity Target: 30 Lakh Liters



The Shivgarh P-59 project under **SBI Foundation** shows strong progress in integrated watershed management, with full completion of inspection pathways, signage boards, gates, and entry infrastructure. However, key components like soak pits and water storage are still progressing toward the targets.

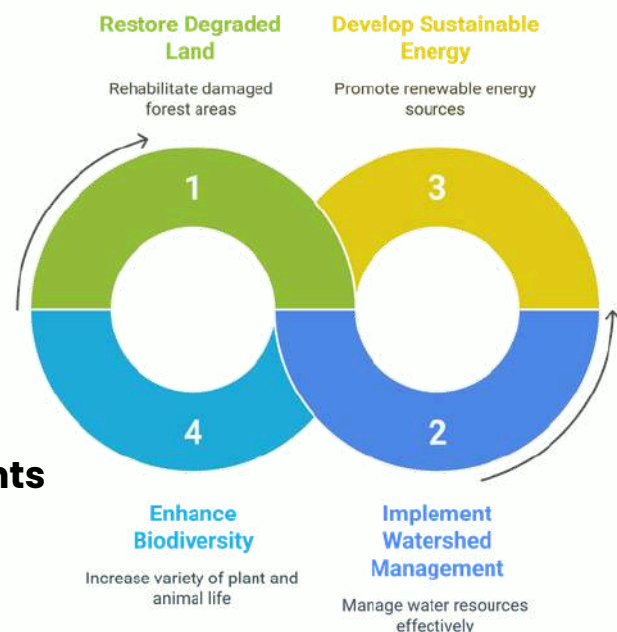




Shivgarh: Rain Gun in operation

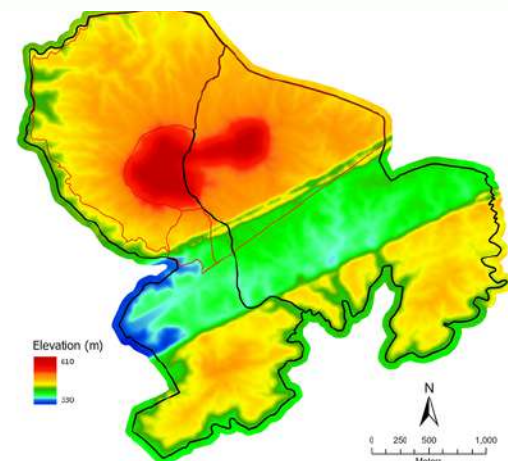
Shivgarh P-59 (2024-25) – Key Highlights

- Saplings Planted: **1,000**
- Area Covered: **308 Acres**
- Pit Digging: **35,649**
- Pit Preparation: **4,762**
- Check Dams Constructed: **6**
- Water Storage Capacity Created: **15 Lakh Litres**
- Fencing Completed: **3,000 meters**
- Inspection Pathways Developed: **12 km**
- Villages Benefited: **5**
- Employment Generated: **1,093 man-days**



Shivgarh P-60 (2023-24) – Key Achievements

- Saplings Planted: **86,315**
- Area Covered: **550 Acres**
- Check Dams Constructed: **44**
- Water Retention Capacity: **33 Crore Litres**
- Sarovars Constructed: **3 (with a combined capacity of 200 Lakh Litres)**
- Rain Guns Installed: **51**
- Water Pipelines for Rain Guns: **2,997 meters** (4" pipeline) **822 meters** (3" pipeline)
- Borewells Drilled: **5**
- Pathways Developed: **32 km**
- Contour Trenches Prepared: **25,450 Rm** (1,386 trenches)
- Outer Periphery Chain-Link Fencing: **9 km**
- Villages Benefited: **14**
- Training Sessions Conducted: **10**
- Employment Generated: **22,355 man-days**
- Solar Panel Installation: **15 kW**



Before (Dec 22)



Before

During (June 23)



After

After (Oct 23)



Restoration of Degraded Forest Land

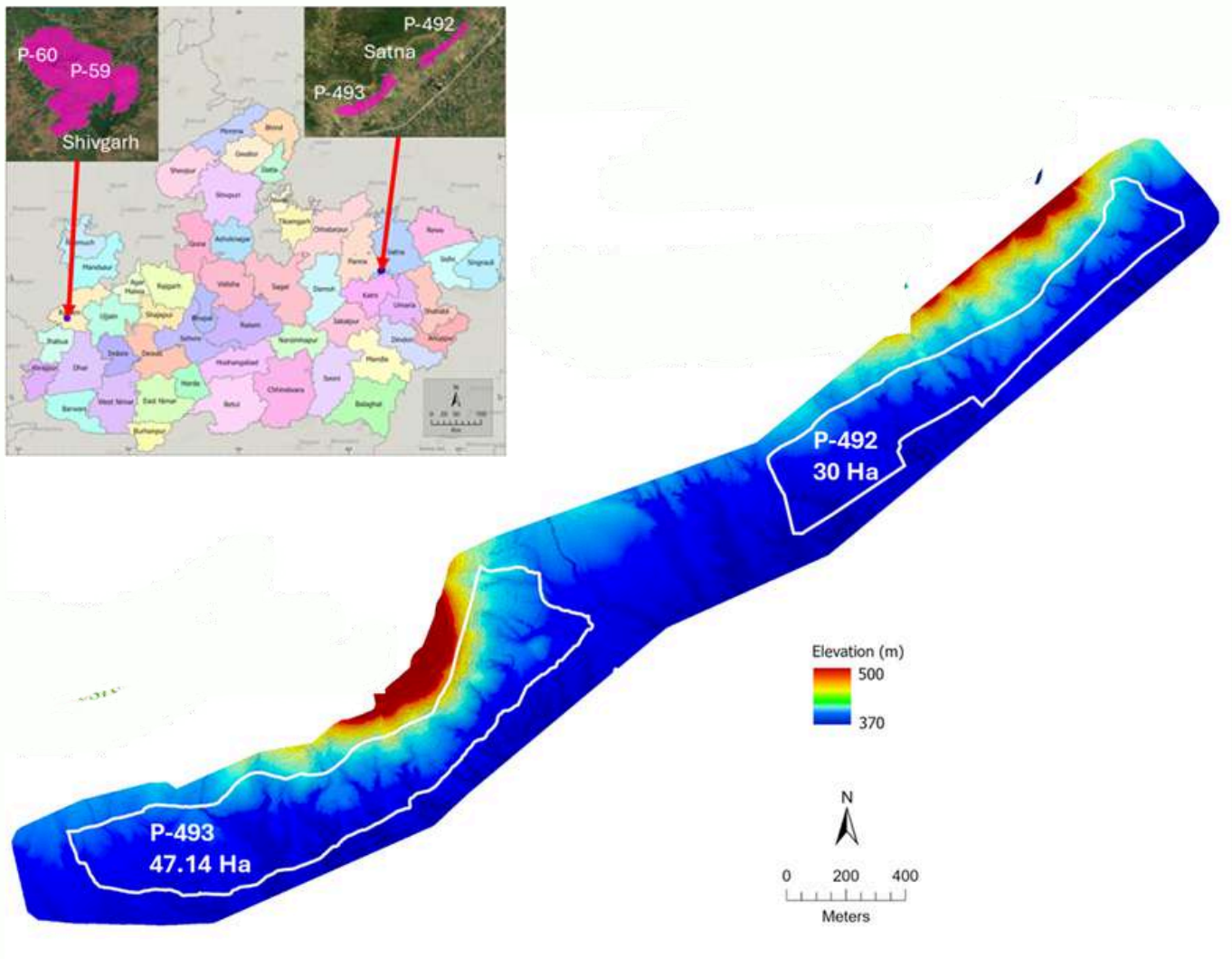
Compartment No. P-492, Amdara (Satna Forest Division)

Location: **Amdara, Maihar Forest Range, Satna Forest Division**

Joint Forest Management Committee (JFMC): **Kherwasani**

Project Tenure: **2024-25 to 2030-31**

Total Area: **30 Hectares**



Project Overview

This project aims to restore 30 hectares of degraded forest land in Compartment No. P-492, located in Amdara under the Satna Forest Division. The area, currently dominated by invasive weeds and marked by biological pressure from wildlife, grazing, and human activity, will be revitalized through a strategic, multi-year afforestation and conservation initiative. The effort is being executed in collaboration with the local community under the JFMC Kherwasani, with a long-term vision of ecological sustainability, livelihood generation, and forest protection.

Site Characteristics

- **Topography:** Mixed terrain with approximately 50% hilly area
- **Slope:** Oriented from Northwest to Southeast, facilitating natural water drainage
- **Soil Erosion:** Moderate to normal
- **Rock Types:** Presence of Sandstone and Basalt strata
- **Soil Type:** Predominantly alluvial
- **Annual Rainfall:** Approx. 1100 mm, offering good support for plantation

Soil Condition:

1. **Soft Soil Area:** 0.0 Ha
 2. **Hard Soil Area:** 30.0 Ha
- **Invasive Species:** Heavy infestation of Lantana weed across all 30 Ha

Biological Pressure:

1. Wild animals damaging saplings
2. Free-grazing livestock
3. Human interference from nearby habitations



SPECIES AND NUMBER OF SAPLINGS PLANNED FOR PLANTATION:

- | | |
|-----------------------|---------------------------------------|
| • Teak: 3000 | • Amla: 2000 |
| • Neem: 2000 | • Bamboo: 7000 |
| • Kanji: 2000 | • Bio-diversity Species: 12000 |
| • Chirol: 2000 | • TOTAL: 30,000 saplings |

Project Goals & Deliverables

🌱 Ecological Restoration

- Reclaiming 30 Ha of degraded land through removal of invasive weeds and plantation of native tree species.
- Re-establishing forest ecosystems to boost local biodiversity and support wildlife habitats.

👤 Community Engagement & Livelihood

- Providing sustainable employment opportunities for the local population throughout the project duration.
- Actively involving villagers through Joint Forest Management Committee (JFMC) frameworks, empowering them in planning and execution.

♻️ Sustainable Development

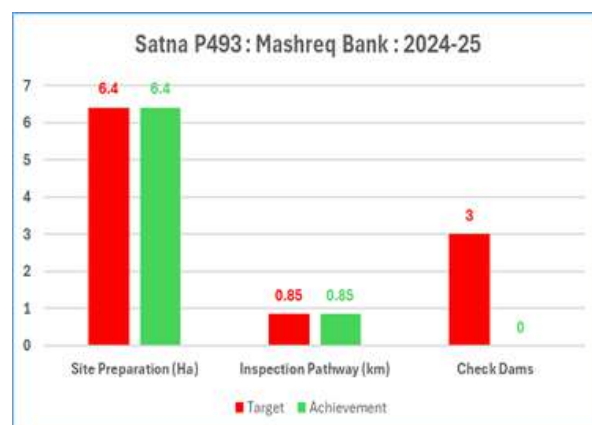
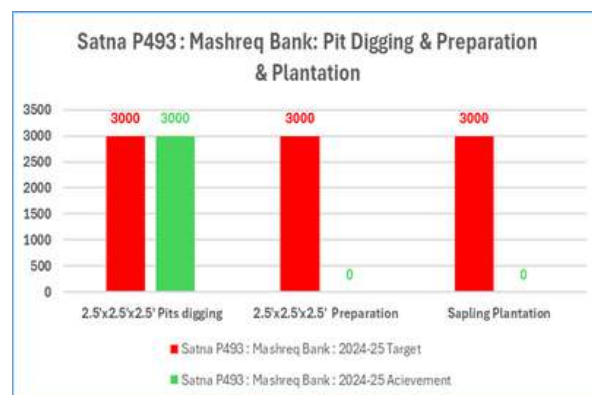
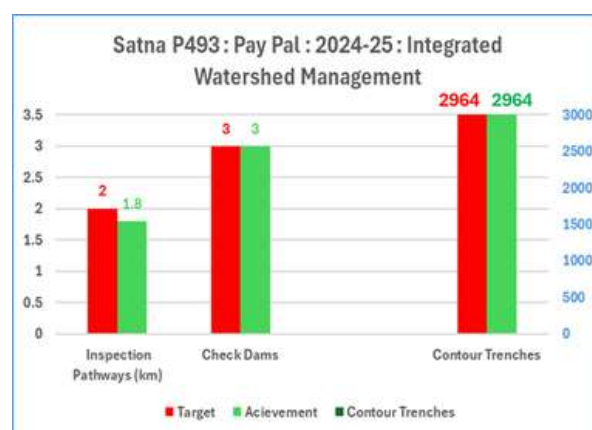
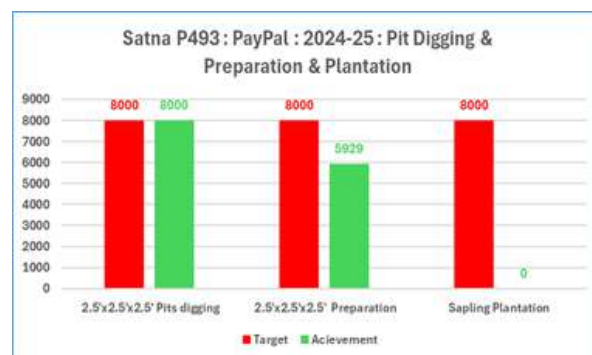
- Enhancing green cover to combat pollution, improve microclimate, and restore soil health.
- Promoting environmental stewardship through awareness and training among local communities.

🛡️ Forest Protection & Infrastructure

- Chain-link fencing to safeguard the plantation zone from external threats such as grazing and encroachment.
- Conducting awareness drives to discourage illegal logging or land use change and to promote forest conservation.
- Greening barren and erosion-prone zones to strengthen soil binding and reduce land degradation.

Long-Term Impact

- Significant carbon sequestration and climate resilience over the project's tenure.
- Creation of a model site for forest rejuvenation, combining ecology, economy, and community.
- Increased water retention and recharge due to improved vegetation and ground cover.

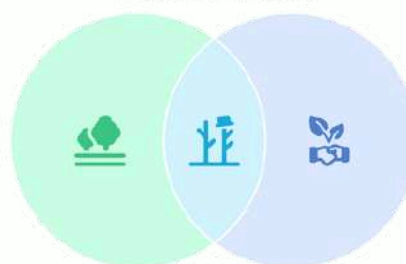


FBH Projects

Dalniya, Rajasthan

Block & Boundary Plantation

Project Archetypes



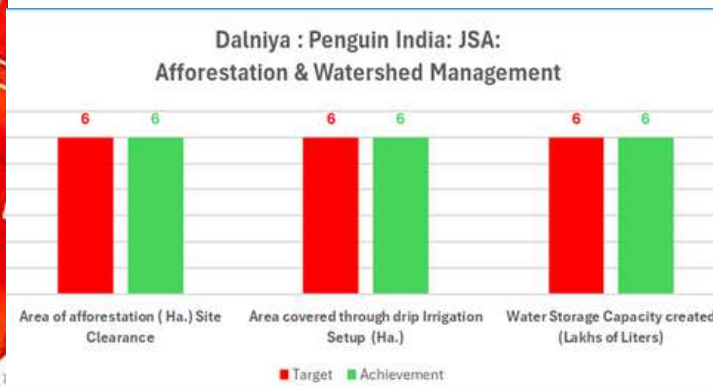
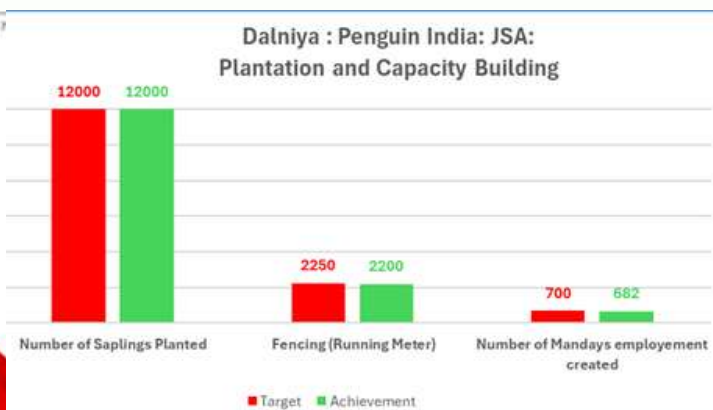
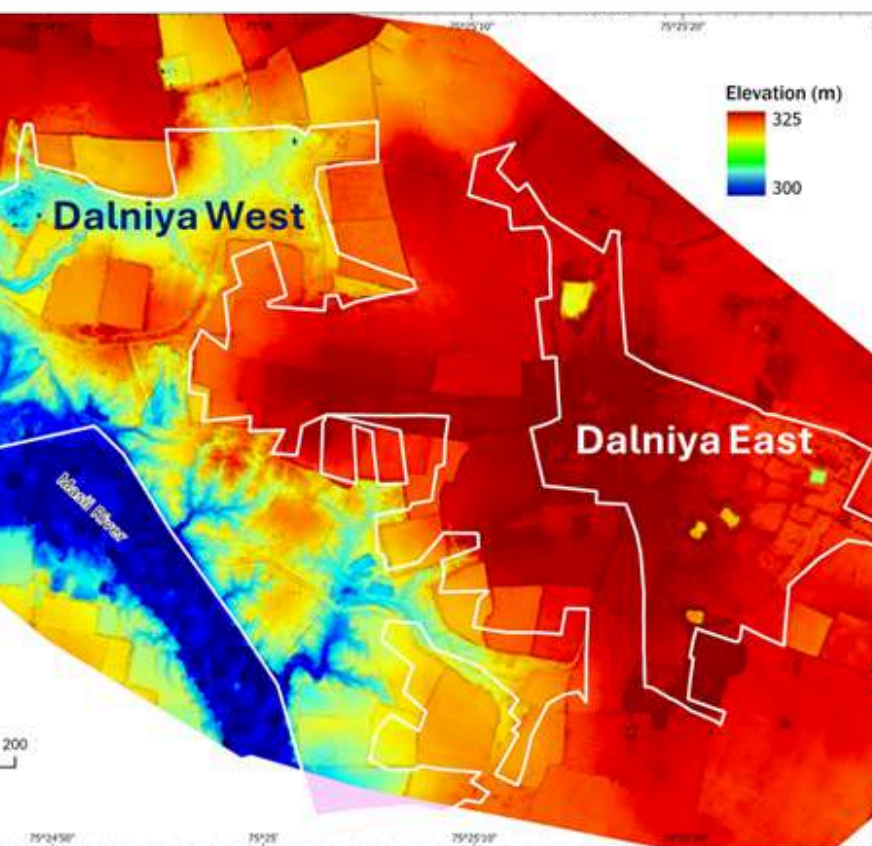
Restoration of Ecosystem

Afforestation & Village Development Initiative

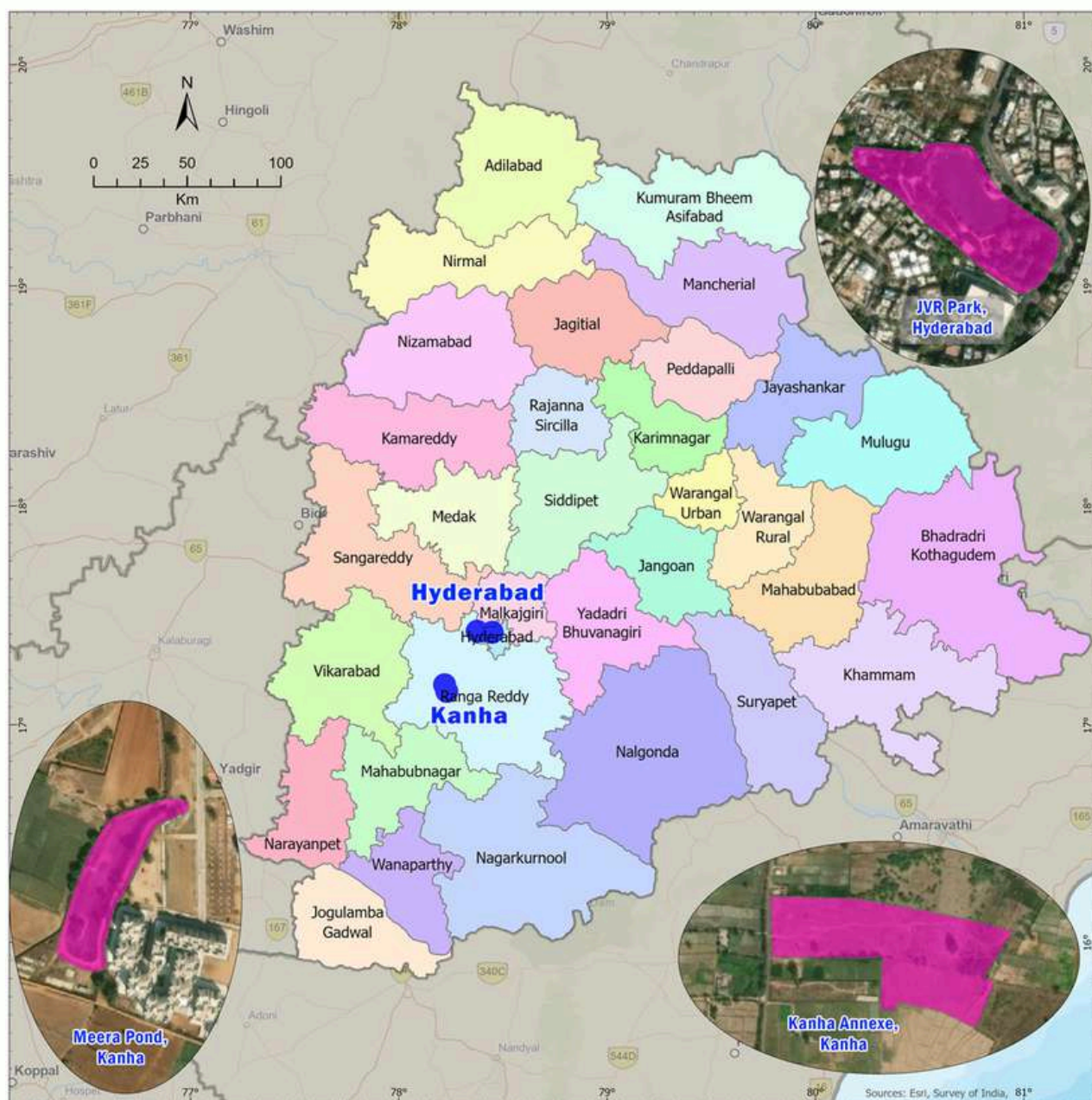
- **Total Area Developed:** 6 hectares (site clearance and afforestation)
- **Saplings Planted:** 12,000 (including 5,200 trees and 6,800 shrubs)
- **Irrigation Coverage:** Entire 6 hectares through drip irrigation
- **Fencing Installed:** 2,200 running meters
- **Water Bodies Constructed:** 2 ponds
- **Water Storage Capacity Created:** 6 lakh litres
- **Employment Generated:** 682 man-days

Community Development Highlights:

- Development of **100-acre village grazing land** with tree species of economic value to enhance local prosperity
- **Capacity building** of youth and villagers in sustainable forestry practices
- Introduction of **Heartfulness Meditation and Yoga** in surrounding villages to promote holistic well-being



FBH Projects: **TELANGANA**



FBH Projects 2024 - 2025 : Telangana State

<i>Project site</i>	<i>Funding Partner</i>
JVR Park, Hyderabad	LIC HFL
JVR Park, Hyderabad	ITC
JVR Park, Hyderabad	Sattva
Kanha Annex	Thryve
Meera Pond, Kanha	S&P Global
Meera Pond, Kanha	Thoucentric

FBH Projects

JVR Park, Hyderabad

JVR Park, a vital green oasis within the **Greater Hyderabad Municipal Corporation (GHMC)** area, features a scenic lake, walking trails, and expansive open spaces. It supports a diverse array of flora and fauna, offering a natural habitat and serving as a key recreational and environmental resource for the surrounding urban community.

However, the park's lake has recently faced ecological challenges, including pollution, nutrient overload, and sediment accumulation, resulting in degraded water quality and diminished biodiversity.

To tackle these issues, GHMC has partnered with the Heartfulness Institute and Sattva through a Memorandum of Understanding (MoU) to implement a comprehensive ecological restoration initiative. This collaboration combines GHMC's urban management expertise, Heartfulness Institute's dedication to sustainability, and Sattva's strategic expertise to create an effective framework for restoring the lake's ecological health and enhancing urban biodiversity.



Ecological Restoration Methods for JVR Park Lake

The ecological restoration project for the lake in JVR Park, under the Greater Hyderabad Municipal Corporation (GHMC), incorporates the following methods to address pollution, nutrient overload, and sediment buildup while enhancing water quality and biodiversity:

- **Treatment Wetlands:** Strategically designed areas where wastewater is processed to reduce contaminants and manage nutrient levels, improving overall water quality.



As per the approved site and drawing plan, the area designated for wetland construction was marked, and excavation work commenced on April 25, 2024, with breaking the existing six-inch thick concrete layer in the demarcated zone. This was followed by soil excavation using a JCB.

- **Water Distribution Channel:** A channel that diverts water to a peripheral treatment zone equipped with wetlands, facilitating enhanced water circulation and treatment efficiency.



Excavation and Precast Panel Installation: The excavation work was completed on **May 5, 2024**, and the levelling of the wetland was successfully finalized.

- **Bio-remediation:** The application of biological methods to manage sludge and promote ecological balance within the lake, supporting a healthier aquatic ecosystem.



Impact of Heavy Rainfall on Site Condition for Wetland Project:

On the evening of **May 7, 2024**, an unexpected and heavy downpour occurred, leading to significant challenges in the excavated wetland area. The rainfall was substantial enough to cause the area to become nearly filled with water, posing immediate concerns for ongoing construction activities. The Assistant Engineer conducted a thorough assessment of the situation, evaluating both the immediate impacts of the rainfall and the potential long-term consequences for the wetland project.



Geotextile Layer Installation and Precast Pole Installation
Progress: Marking and arrangement of Pre-Cast Panels

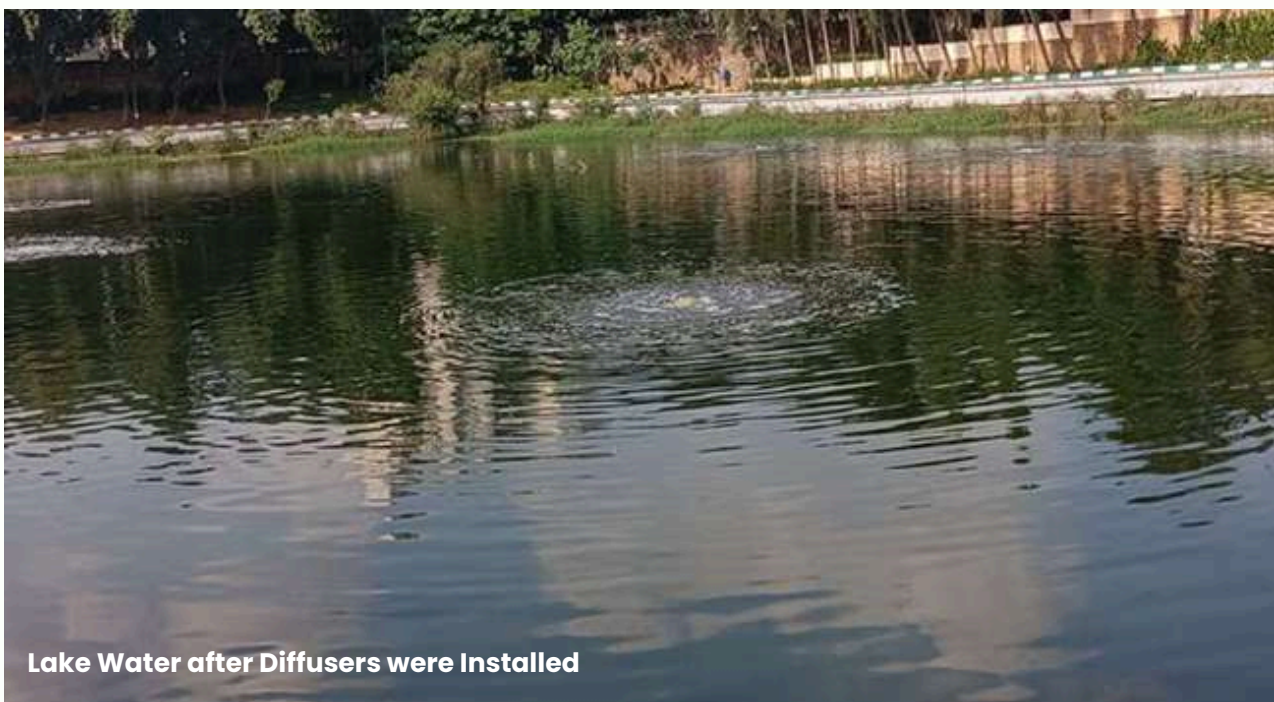


Manhole Construction and Pipeline Repair Progress

- **Floating Wetlands:** Engineered platforms deployed on the lake's surface to improve water quality and create habitats that promote avian biodiversity.



- **Storm-water Management:** A filtration system designed to control contaminants entering the lake from stormwater runoff, mitigating pollution and protecting the lake's ecological health.



JVR Park Lake Restoration Progress Report

The ecological restoration project for the lake at JVR Park, overseen by the Greater Hyderabad Municipal Corporation (GHMC) in collaboration with the Heartfulness Institute and Sattva, is progressing with the following updates based on the provided activity description and work status:

- **General Cleaning and Pond Dewatering:** This task was completed; however, it was entirely undone due to rainwater flooding the lake.
- **Desilting and Movement of the Soil within the Waterbody:** Partial work was executed but was fully reversed by rainwater flooding.
- **Bund Dressing and Slope Formations:** This work requires restarting and can only proceed during a completely dry season.
- **Central Mound Formation:** Planned to commence concurrently with desilting operations.
- **Waterbody Mouth Sedimentation Pond & Gabian Walls etc.:** A Gabian wall was constructed but destabilized due to floodwater ingress from a breach at the Nala.
- **Creation of Lagoon at the Mouth of the Lake for Silt Trap; Earth Work with Bund Stabilization etc.:** Scheduled to begin alongside desilting operations.
- **Sluice Gate Repair & Setting up of Screening Chamber:** Once lake water levels recede, breaking up the existing structure and constructing a new one is planned.
- **500 KLD Tertiary Treatment with Aerated Wetlands for Existing STP:** Work has begun and is planned to be completed within 40 calendar days, provided dry weather conditions persist.
- **In-situ Biotech Integrated Destratifying Treatment (BIDT) for the Lake Water Remediation, Polishing and Upkeep of Quality:** All equipment as per the design has been imported and installed at the park; the system is functional.

R-TAR Enzyme & R-TAR L Bio Nutrients for Lake Application; Start Dosing for the First 30 Days; Remediation Dosing for Next 60 Days; Remediation Dosing for Next 270 Days: Enzymes are currently deployed in reduced quantities to mitigate water odor.

Floating Wetlands – 4K/ Sq. m ; 2 Islands; 16 sq. m. each ; Introduction of Indian Carps fish ; Floating Fountains 1 No for Lake Aesthetics ; Floating Solar Panel (30 KW): These are planned for installation after desilting and reinstallation of the BIDT system.

The project faces challenges due to recent flooding, necessitating adjustments to the timeline and sequence of activities. Continued monitoring and coordination among stakeholders are essential to ensure successful restoration of the lake's ecological balance.

Summary of Operational Activities and Work Progress

1. Kids Play Area Development & Renovation

Objective: Enhance recreational facilities for toddlers and young children.

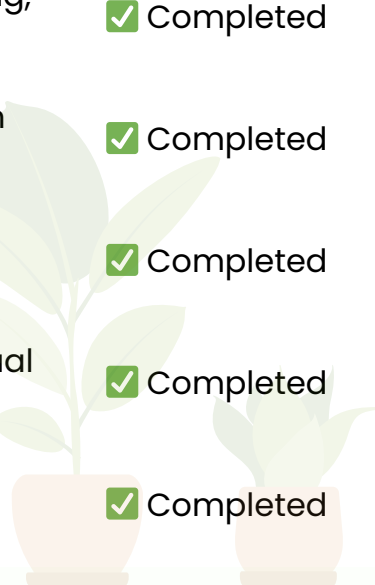
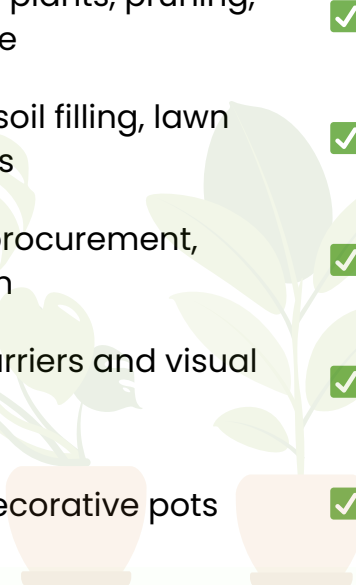
Crawling Ground Area	Concrete bed, EPDM flooring, and new play equipment	✓ Completed
Benches	Animal-shaped benches installed	✓ Completed
Painting & Repairs	General repairs and painting work	✓ Completed
Sand Refilling	Refilling sand in play area	⌚ To be done
Green Net for Play Area 1	Safety net installation	🚧 In progress
Gravel Gym Area	Development of gravel-based gym play zone	✓ Completed



2. Renovating Green Spaces (Revitalization of Plants)

Objective: Improve aesthetics and ecological health of green zones.

Clean-up Operations	Removing dead plants, pruning, debris clearance	✓ Completed
Lawn Expansion	Grass dibbling, soil filling, lawn mat installations	✓ Completed
Soil & Manure Work	Earthwork, soil procurement, nutrient addition	✓ Completed
Hedge & Ornamental Planting	Green sound barriers and visual appeal	✓ Completed
Potted Plants Supply	Placement of decorative pots	✓ Completed



3. Infrastructure & Amenities

Objective: Upgrade essential amenities for visitor convenience and accessibility.

Panchatatva Garden	Pebble laying, stepping stone repair	✓ Completed
Water Fountains	RO equipment supplied for installation	⚠ Installation Pending
Rainwater Harvesting	Excavation, compost pits, CC rings and covers	✓ Completed
Kerb Stones	Designated kerb stone placement	✓ Completed

4. Seating, Signage & Educational Boards

Objective: Add informative and user-friendly utility elements.

Benches & Dustbins	Strategic placement of benches & bins	✓ Completed
Bench Repairs	Refurbishing existing seating	✓ Completed
Educational Boards	Display of themed knowledge boards	➡ To be taken up SOON

5. Gazebos & Canopies

Objective: Create shaded relaxation areas and aesthetic structures.

Renovation	New gazebo roofs, floorings, seating	✓ Completed
Entrance Planters	Arch fabrication, creeper plantation	✓ Completed

6. Irrigation & Water Management

Objective: Ensure sustainable water usage for green maintenance.

Irrigation Systems	Efficient systems for greenery upkeep	➡ To be taken up SOON
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FBH PROJECTS

MEERA POND, KANHA, HYDERABAD

The Meera Pond restoration project aims to rejuvenate this vital water body, envisioning a tranquil integration of water, wildlife, and wellness. This initiative seeks to transform Kanha's natural core into a flourishing sanctuary, promoting ecological harmony and serene beauty.

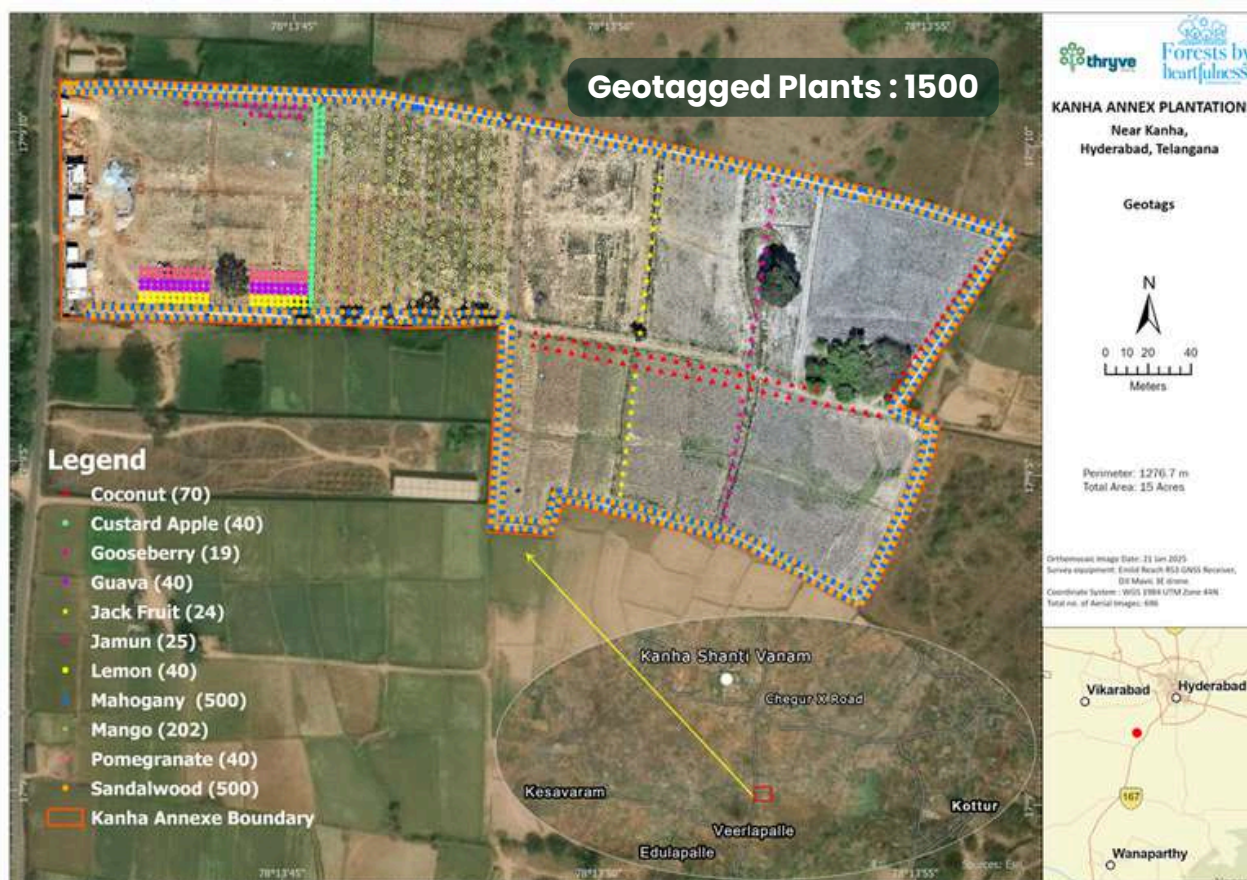
Project Archetypes: **Avenue Plantation & Enhancing Bio-diversity**



S&P Global Employee engagement event and plantation activities : Meera Pond, Kanha

FBH Projects

KANHA ANNEX, KANHA, Hyderabad



28th July 2024 : Thryve's Support for Greening Activities at Kanha Annex – 1500 trees adopted





Thryve supported the greening efforts at Kanha Shanti Vanam Annex by adopting **1,500 trees**, reinforcing its commitment to environmental sustainability and ecological restoration. In collaboration with the Heartfulness Institute, this initiative contributes to increasing green cover, enhancing biodiversity, and promoting long-term climate resilience—demonstrating how corporate responsibility can drive meaningful impact on the ground.

Projets Inside Kanha Shanti Vanam

SL. No.	Project Site	CSR Donor	Number of Tree Saplings Planted
1	Nursery Pond	Zscaler	5000
2	Madhu Vanam – Avenue Plantation		600
3	Madhu Vanam Pond	Zscaler	1200
4	Weighing Bridge Area	PayPal	200
5	South Car Parking	Coca Cola	300
6	Opposite Pearl Hotel	PayPal	2000
7	Phase -1 Mount	PayPal	4000
8	West Gate	PayPal	600
9	Phase - 2	IOCL	120
10	Rainforests		3500
11	North Pond	Evernorth	1500
12	Gokul Land	Google & Youth for Seva	400
13	Phase - 2 Avenue Trees	Apollo	400
	TOTAL		19820

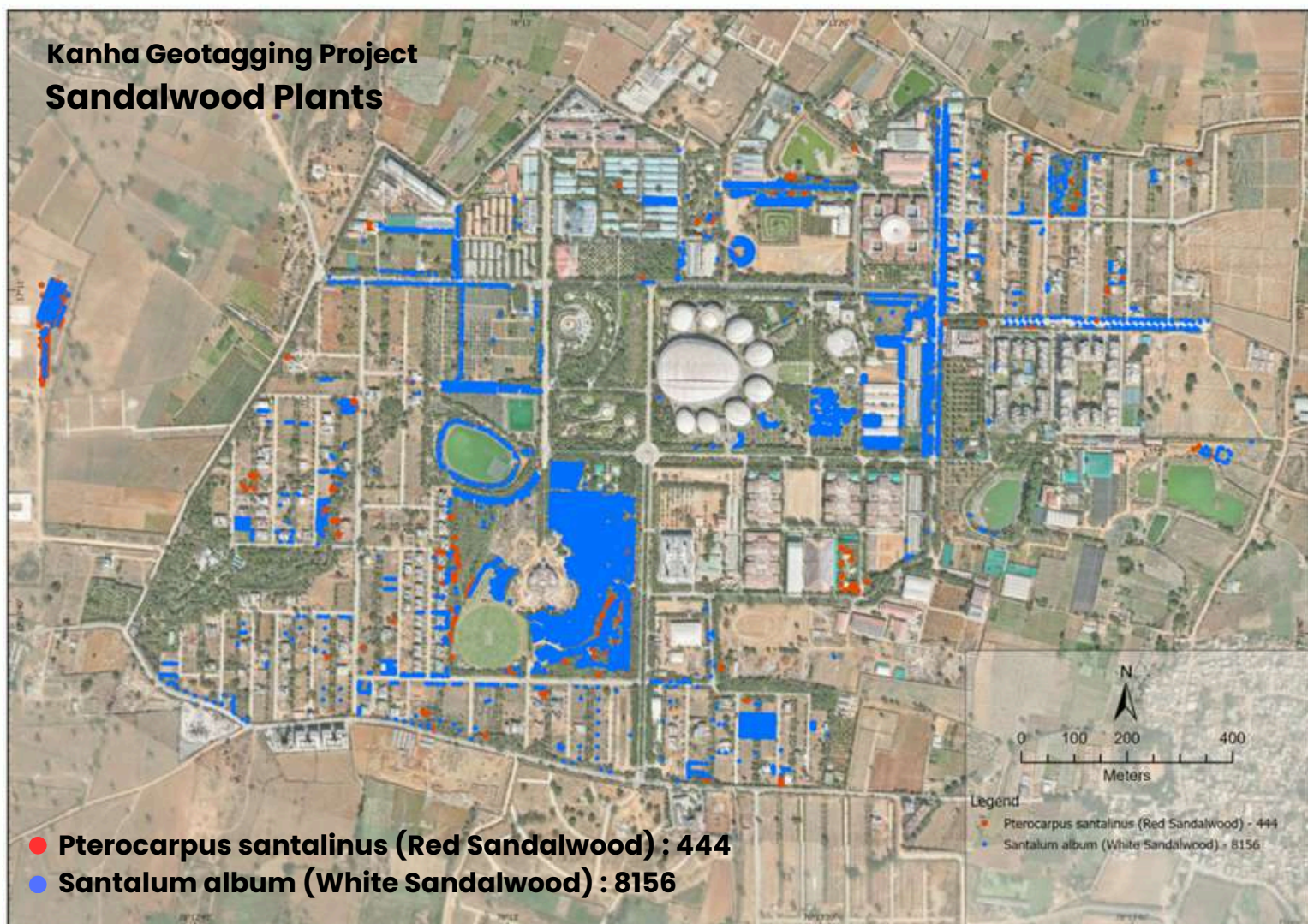
Google Earth



Key Highlights of Plantation Initiatives at Kanha Shanti Vanam

- **Total Saplings Planted: 1,86,745** across **25 designated sites**, including trees and shrubs over the last few years.
- **CSR Project Locations:** Plantation activities carried out across **25 sites** in and around Kanha.
- **Maintenance & Monitoring:** All plantation sites are being actively maintained through a structured and dedicated workforce.
- **Geo-tagging:** Initiated geo-tagging for major plantation zones to enable tracking and monitoring.
- **Site Management:** Comprehensive support provided for pest and disease control, regular weeding, and irrigation.
- **Capacity Building:** Training programs conducted for forest officials to enhance knowledge and techniques.
- **Event Coordination:** Successfully organized plantation events during corporate visits, special occasions, and VIP engagements.
- **Biodiversity Introduction:** Rare and native species planted at specific ecological zones like Rainforests, Phase-1 Mount, Nursery Pond, and Gokul Point to boost habitat diversity.

Kanha Geotagging Project Sandalwood Plants

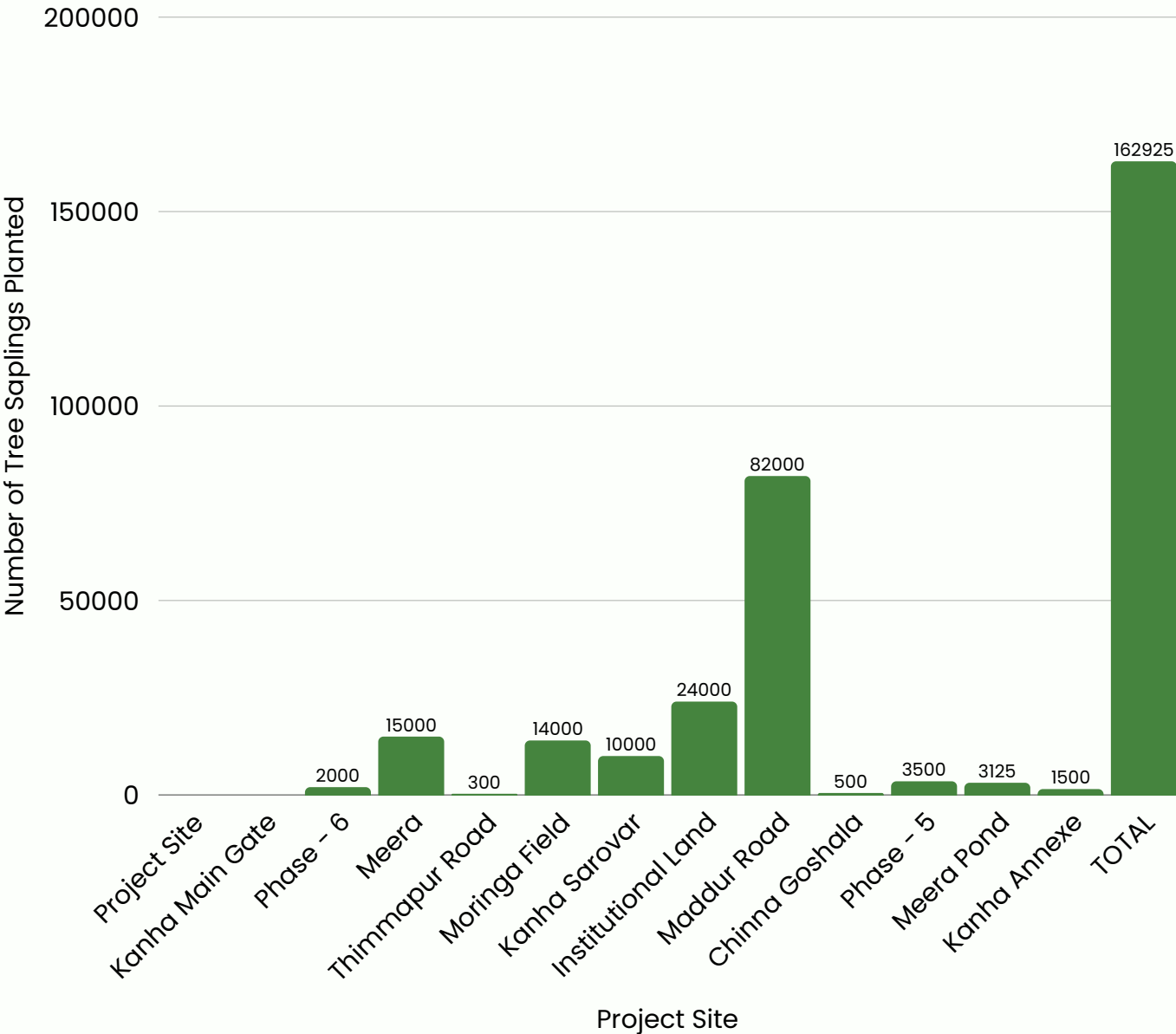


● **Pterocarpus santalinus (Red Sandalwood) : 444**
● **Santalum album (White Sandalwood) : 8156**

General maintenance

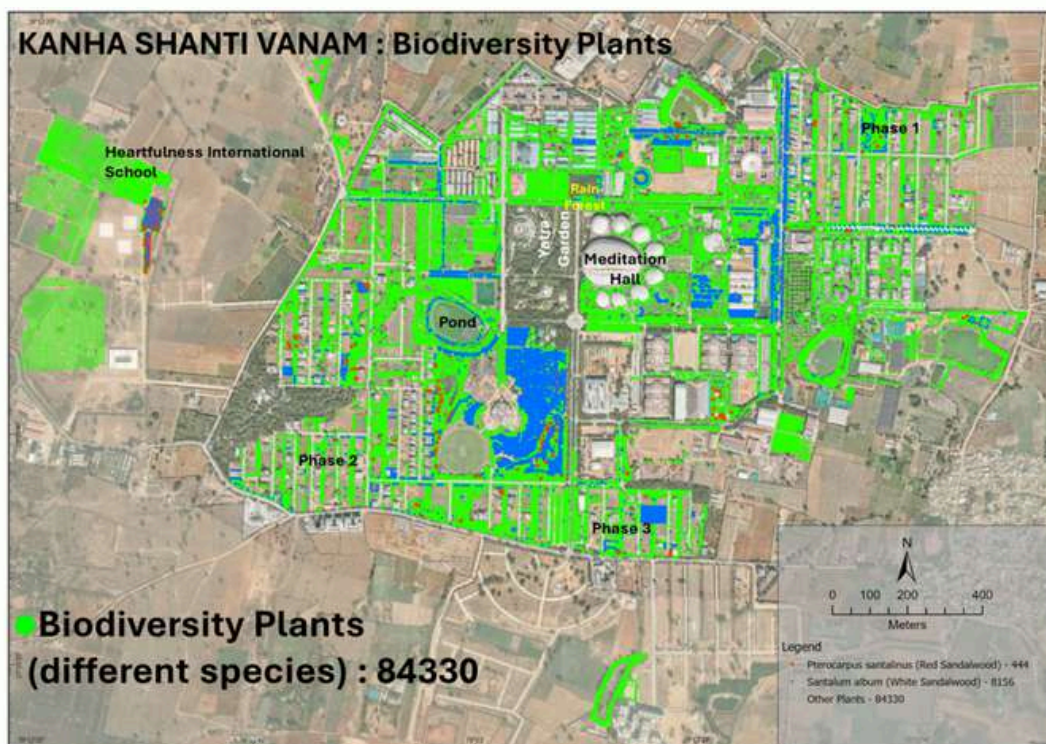
Activities include weed removal, particularly targeting invasive species like Parthenium and Lantana, to ensure healthy plant growth.

- **Drip irrigation** is implemented to provide efficient water usage, especially during dry periods.
- In summer, mulching and compost application help retain soil moisture and improve fertility.
- Branch pruning is carried out only along pathways to maintain accessibility and aesthetics.
- Pest and disease management is conducted using Integrated Pest Management (IPM) techniques, ensuring a balanced and eco-friendly approach to plant health.



Next Steps Planned

- Complete geo-tagging of all remaining plantation sites.
- Enrich biodiversity by introducing additional native and rare plant species.
- Strengthen existing pest and disease management protocols.
- Expand plantation with an additional 6,000 trees planned for 2025–26.
- Establish a Bambusetum featuring 60 bamboo species sourced from IFGTB and Assam.
- Deepen community and corporate participation through expanded engagement in plantation activities.



KANHA SHANTI VANAM : Green Apple & Pomegranate Farms



Mango Garden near Maddur Road, Kanha



Geotagged Plants : 2690

- *Phyllanthus emblica* (Amla) : 364
- *Psidium guajava* (Guava) : 15
- *Magnifera indica* (Mango) : 2311



About Kanha Shanti Vanam

Kanha is the epicenter of the Heartfulness Movement. Magnificent in its style and design, tranquil in its atmosphere, the beauty of the place lies in its subtlety; the natural and harmonious environment of the place resonates with the balance and love experienced by the hearts of those visiting and living in Kanha.

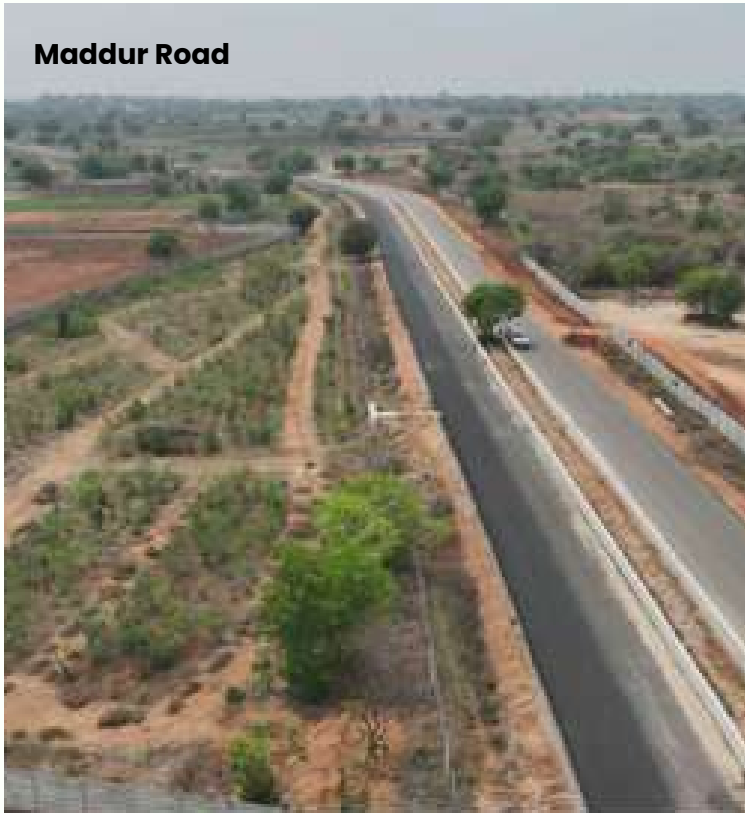
Prior to 2010, this entire area was largely barren and dry. At the outset, a massive plantation drive was undertaken with special emphasis being given to the endangered local species. Over the years, the green cover has steadily increased and the landscape has been transformed.

The ashram is an ecological paradise, a place for a spiritual retreat, where you can experience simple living in tune with inner and outer nature. The **Forests by Heartfulness** movement started in Kanha and from there it spread massively in the entire nation through a network of 28+ nurseries.

Kanha Sarovar



Maddur Road



Nursery Pond



In 2019, Kanha was awarded 'The Pride of Telangana' for inner wellness, by Round Table India & Times of India.

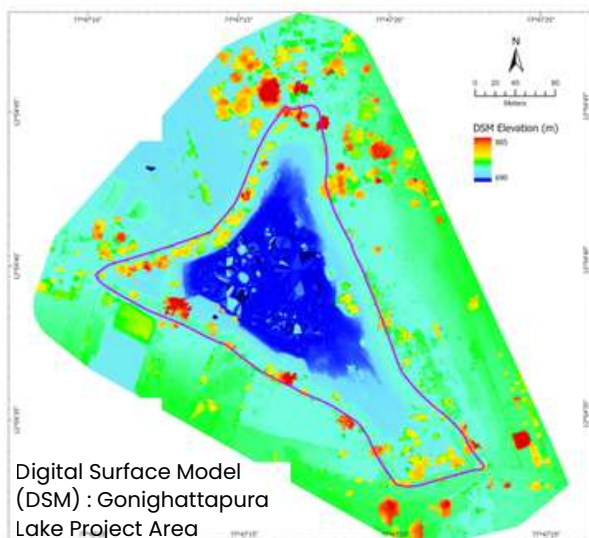
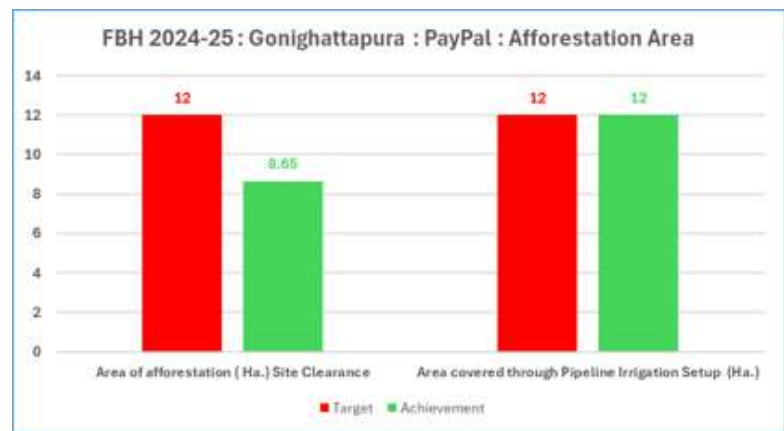
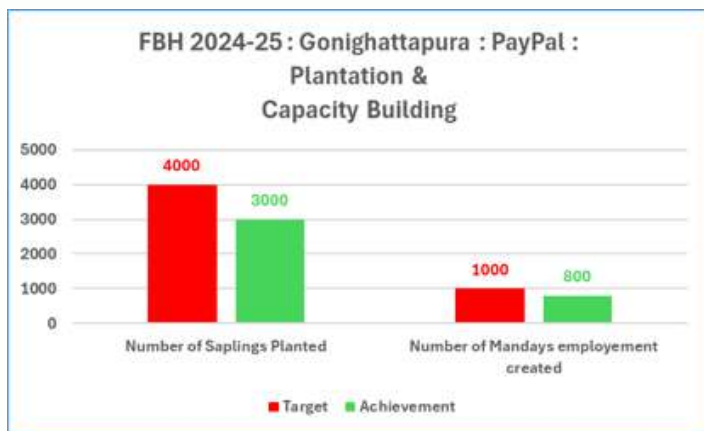
The center also received the Indian Green Building Council (IGBC) Platinum award in 2019 for following world class environment friendly practices becoming the first meditation center in the world to achieve the feat.



FBH Projects : 2024-25

GONIGHATTAPURA LAKE, BANGALORE, KARNATAKA

- Area of afforestation & Site Clearance : **8.65 Acres**
- Total number of Saplings Planted along Lake Bund : **3000**
- Area covered through Drip-irrigation : **12 Acres**
- Number of Man-days employment created : **800**
- Create village prosperity through planting fruiting trees of economic value
- Fencing of the area is planned to be carried out in the next phase.
- **Lake Bund Plantation & Lake Rejuvenation & Bio-diversity enhancement**



Valley School Lake , Bangalore, Karnataka

Valley school is a well known biodiversity zone of 100+ acres in Bangalore. Within the school, there is a 4-acre water body which needs restoration to enhance biodiversity as well as increase water holding capacity. FBH has taken up the restoration work and fully desilted the lake and shaped the bunds.

Soon, plantation of grasses, shrubs & herbs and native trees will happen all along the lake bund and the catchment area.

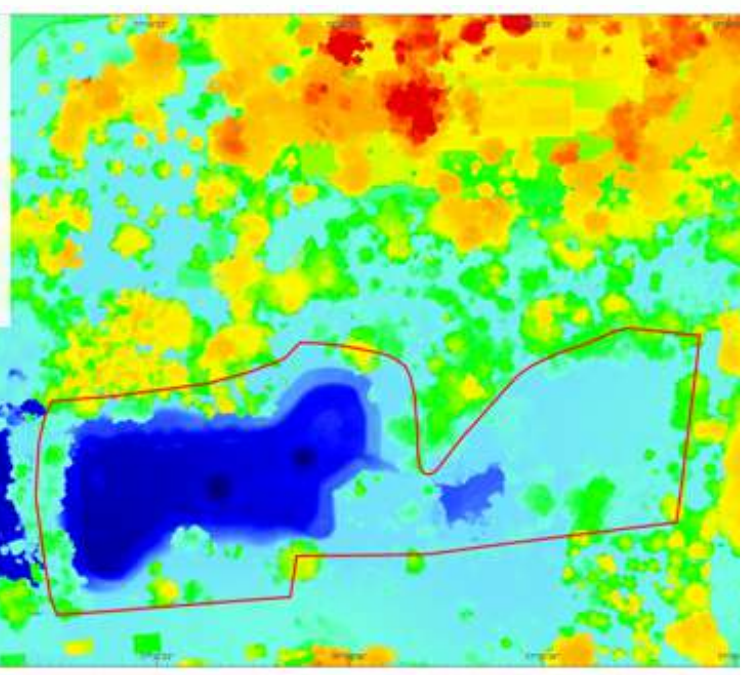
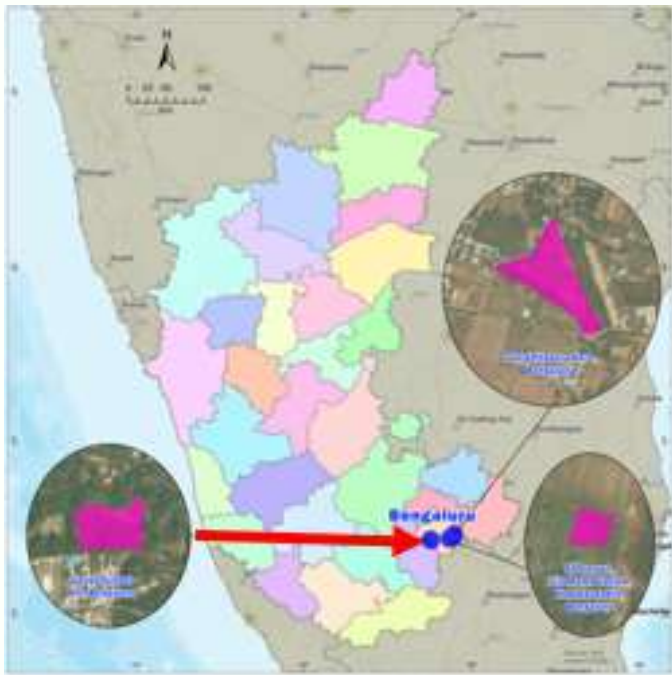
The water body will become an epicenter for community engagement to impart nature-based education to children, specifically on lake ecosystem. The children will be not only from valley school, but also the neighbouring government schools.



Orthomosaic image : Valley School Lake Project Area

Next steps:-

- As this lake is frequented by children, stone pitching will be done on the upper slope to prevent trips & falls. This will happen in May - June.
- Plantation of 6 varieties of grasses and several native trees and shrubs along the bund. Species will be carefully selected, as the site is going to be a model water body restoration



Digital Surface Model (DSM) : Valley School Lake Project Area

FBH Projects Karnataka	
Project Site	Funding Partner
Gonighattapura, Bangalore	PayPal
Valley School, Bangalore	ZScaler
Sitaramavana, Kommasandra, Bangalore	Thoucentric
Bangalore, KSV employee volunteering	MICRON Technologies
Bangalore	Google

Key figures:

- Lake area: **4 acres**
- Catchment area in acres – **1.2 sq km**
- Lake water holding capacity before restoration – **48 Lakh Litres**
- Lake water holding capacity after restoration – **1.8 Crore Litres**
- Length of the bund created – **460 metres**





Translocation of Trees

Methodology of Trees Translocation

Translocation is the term used to describe the digging and replanting of trees from one location to a new location. Due to the wide extent and morphology of tree root system, translocation of trees usually involves substantial removal of roots. It is ensured that the requirements such as timing of root pruning, size of root ball, translocate and lifting requirement, monitoring and post translocation maintenance, etc. shall be properly planned.

Beginning in 2016, we relocated **836 trees**, including **banyan, peepal, and neem**, during road widening near Tumkunta, Hyderabad. Within the campus, over **10,000 trees** have been translocated to accommodate construction needs, without cutting the trees or harming them in any way.

More than 300 trees that were marked for felling in different parts of Hyderabad and adjoining areas in order to facilitate road widening works and other infrastructural work have been translocated and planted at Kanha Shanti Vanam.





Methodology

The Forests by Heartfulness initiative promulgated many critically endangered indigenous plant species by employing the proprietary **Heartyculture High Density (HCHD)** plantation method. This method involves extensive soil reconstitution using Activated Biochar, Vermicompost, Cow manure, and Copeat.

Our methodologies include the levelling of land and creating pits using earth movers, it was undertaken in accordance with the layout design planned by our team of experts. Careful selection of species of native and endangered trees, shrubs and fruit bearing trees have been done at our various sites beforehand only.

Medias are also added to better anchorage and prominent vegetation, for example;

- **Black soil**
- **Charcoal**
- **Plasma Water**

These provide enough nutrients to the saplings for their growth.



Project Archetypes

- 1.Ecosystem Restoration / Conservation
- 2.Biodiversity Park
- 3.Economic Forest
- 4.Carbon Farm
- 5.Rural Revolution
- 6.Agroforestry
- 7.Hill restoration
- 8.Lake restoration:

Soil enrichment through Biochar , Seaweed & Plasma Water

Biochar is a fine-grained, carbon-rich, porous product remaining after plant biomass has been subjected to pyrolysis at low temperatures (~350–600°C) in an environment with little or no oxygen.

Benefits of Biochar production – Biochar in the soil works as a reservoir for water, microbes, minerals and nutrients.

Kanha has a full-fledged Biochar production units and expert teams to make this a widespread utility.

Seaweed is the common name for countless species of marine plants and algae that grow in the ocean as well as in rivers, lakes, and other water bodies which grows with just sunlight and from nutrients in seawater.

Benefits of Seaweed Cultivation – Helps in increasing soil and plant health acting as a growth stimulant. Can also draw down CO₂.

Heartfulness can provide expertise to farm seaweeds that suck up carbon as they grow and can be used for food, animal feed, biofuels and fertilizer.

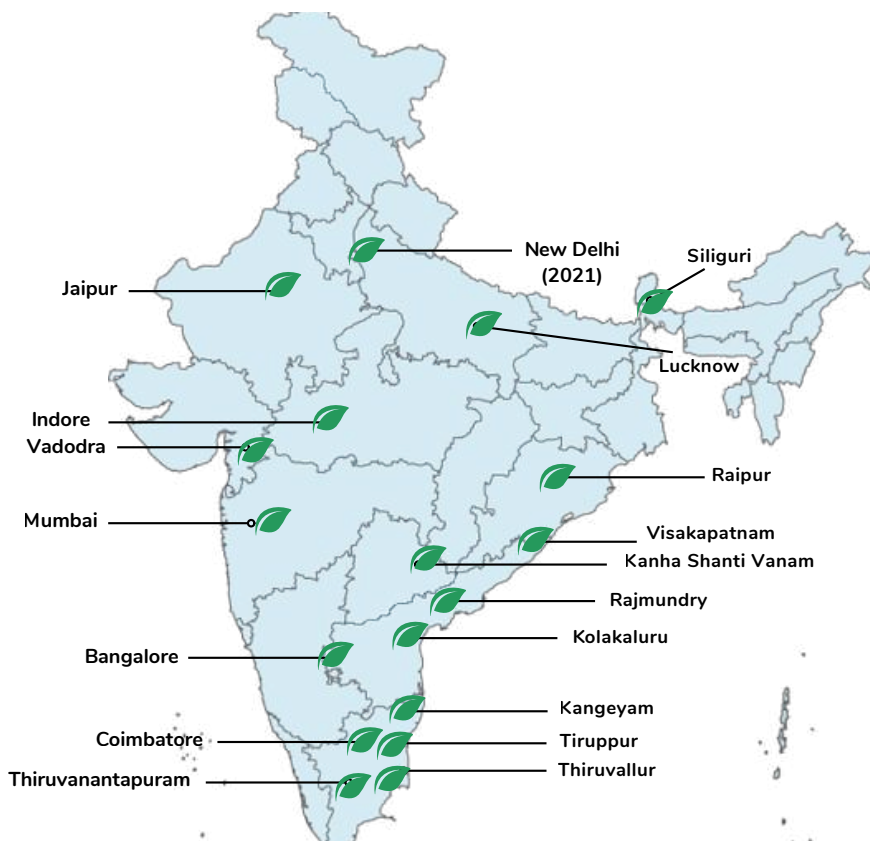
Cultivated Seaweed can be used for increasing the yield as in general, seaweeds contain 10 times the mineral levels of land-based plants.

Plasma Water: Plasma Water Solutions' proprietary breakthrough cold-plasma technology converts water from any source, in continuous flow & real-time, to Plasma-ized Water™ (PW). PW technology is used for seed treatment, crop spray and irrigation to enhance productivity through faster and more efficient germination, accelerated growth, preventing the transmission of plant pathogens and enhancing stress tolerance during the crop cycle.

*The Indian subsidiary of US Agri-Tech company Plasma Water Solutions Inc announced a very unique and promising partnership with **The Heartfulness Institute**. The two organizations have signed a collaboration agreement to promote the common purpose of enabling food security in the most sustainable manner & introducing the Green Revolution 2.0 from India to the rest of the world.*



FBH Nurseries



Forests By Heartfulness has a large hub and spoke network of 18+ active nurseries across India with a capacity of raising millions of saplings. Increase in active nationwide nurseries to 28+ in 2025.

All nursery operations of Forests by Heartfulness are managed in a market standard ERP system

- Close tie up with nation-wide nursery network to collaborate on best practices
- Promotes micro-entrepreneurs and creates livelihoods in local communities



Our various nursery sites at Raipur, Mumbai, Kolakaluru etc.



PAN India Nursery Network

- Forests By Heartfulness has a large hub and spoke network of **28+ active nurseries** across India with a capacity of raising millions of saplings.
- With Systems, process and related infra in place, FBH aims to rapidly increase production to **2000 million saplings** across its network of nurseries by 2025 from its current 10 million grown presently across Heartfulness centers, India wide to facilitate localized sapling production
- Meticulously planned activities drawing from Heartfulness' strong technical and scientific expertise with a combined mix of nursery experts, senior forest officers and tissue culture scientists.
- Central Hub of close to **54+ acres** with **5 million sapling** production in Hyderabad providing large scale production that ensures economies of scale and consistency in quality
- Slated to employ **5000+ gardeners, maintenance staff** by 2025 from neighborhood villages

PIT PREPARATION & SAPLING PLANTATION WORKFLOW

Check list for Non-plant material

- Black Soil (optional) or Red Soil
- Activated Bio-char
- Neem Powder
- Organic Manure / Compost / Vermicompost
- Organic Gel Polymer
- In-situ Top Soil (Mother Soil)
- Bamboo Sticks
- Jute / thread for tying knots (sutli)



More details in Appendix



Nitish Bhardwaj, Indian Actor



Kabir Bedi, Actor



PV Sindhu



Telangana Haritha Mitra award in 2016 & 2018



Shri Shripad Naik, Union Minister of AYUSH



Tamilisai Soundararajan, Hon'ble Governor of Telangana



Amish Tripathi, Author



Indian Green Building Council (IGBC) Platinum award in 2019 for following world class environment friendly practices

Survival Rate of Plants



Ensuring the survival of the plant is critical for any afforestation project and here are the steps we take to make that happen:

1. Selecting the right species: Unless it is an ex-situ conservation project, we normally select the species which are endemic to that region. That ensures the sapling grows naturally without too many additional inputs and care.

2. Selecting the sapling size: Depending upon the season and irrigation facilities on the land, we choose the right cover size. For e.g., where water is scarce, we select tall saplings which get a head start in surviving drought-prone conditions.

3. Selection of the right plantation site: All our plantation sites are carefully selected based on the below criteria:

- a. Availability of sustainable water source.
 - b. Properly fenced land to keep out grazing animals and trespassers.
 - c. Clear land title with a written letter from the local landholding authority.
- This ensures that the forests we create remain there for several decades.

4. Replacement of casualties: We endeavor to keep our sapling survival rate above 90%. Towards that, we replace any casualties with fresh saplings and ensure the forest grows as initially designed.

5. How we select Endangered Species: FBH is guided by a team of conservation and forestry experts who guide us on the right species selection, with special emphasis on native, uncommon & endangered species.

Launch of the Heartfulness Forestation Project, "Ek Ped Maa Ke Naam— A Tree in the name of Mother"

On the auspicious occasion of Guru Purnima 2024, the Heartfulness Forestation Project, "**Ek Ped Maa Ke Naam**," is being launched at Village Kherwa Saani, Amdara, District Maihar, Madhya Pradesh, by the Hon'ble Deputy Chief Minister Shri Rajendra Shukla ji, along with local MLA, Shri Shrikant Chaturvedi, the Collector of Maihar District, Superintendent of Police, District Forest Officer, and 10,000 villagers who have gathered there for this momentous occasion.

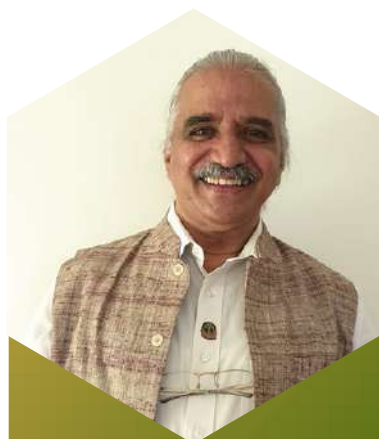


As part of this project, **350,000 trees** will be planted to develop 650 hectares of forest over one year. Each tree will be planted to revere someone's mother, their first Guru. The first tree to be planted by the Hon'ble Deputy Chief Minister of Madhya Pradesh, Shri Rajendra Shukla ji, will be in the name of respected Baa, Smt. Shantaben, mother of beloved Daaji.

Let us all join hands in this noble venture, wherever we are in the world, and plant a minimum of one tree in memory of our loving parents. Otherwise we invite you to contribute through your heartfelt donations and we will plant a tree on your behalf. Your support will contribute to our goal of creating a greener and healthier environment while honoring our mothers, fathers, and other respected family members. Together, we can make a significant impact and ensure a sustainable future for generations to come.



Meet Our Team



**Dr
Ramakantha**

**CHAIRMAN -
FBH PROGRAM**



**Sanjay
Sehgal**

**BUSINESS
HEAD**



**Dr Ashok
Saxena**

**DIRECTOR - LEGAL, GOVT.
POLICY, COMPLIANCE &
STRATEGY**



**Shri Sangeeth
Parvatam**

**PROJECT
MANAGER
FBH PROGRAM**



**Shri Saravanan
Subramaniam**

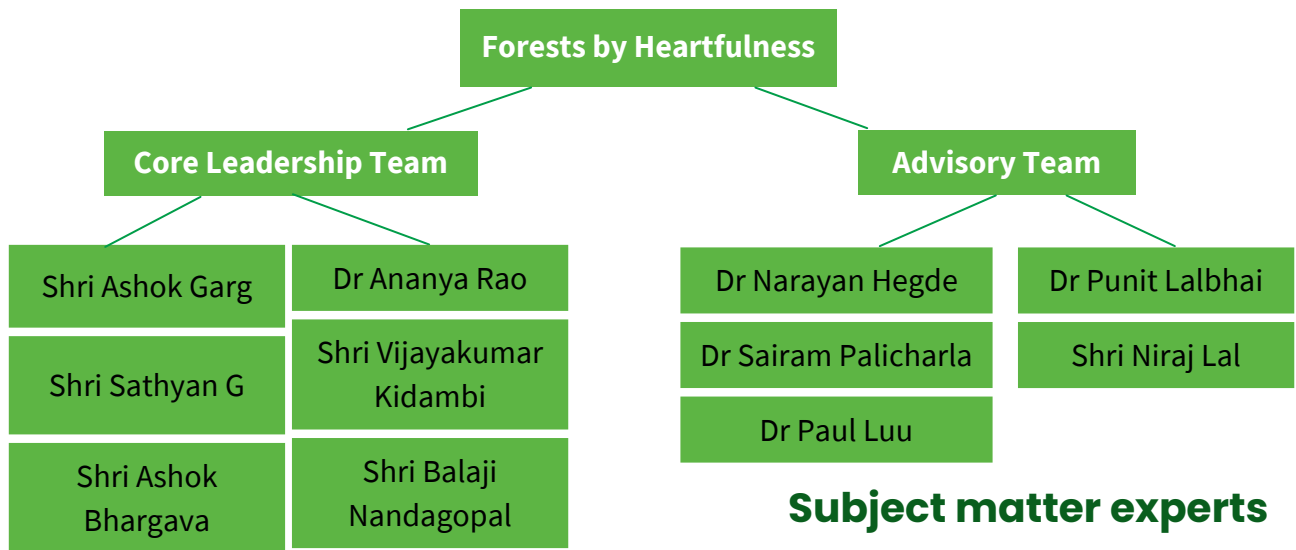
**NURSERY
MANAGEMENT &
PLANTATION -
COMPETENCY**



**Sriram
Raghavendran**

**INNOVATION /
NEW BUSINESS
MODELS**

Map of the Organization



Bhuvaragasamy Rathinasabapathy,
Chief Ecologist

Dr. Sreenath Ananthaneni,
Conservation Scientist

Dr Vijay Juturu,
Tree Conservation specialist

Niranjan Kumar
GIS Specialist

President – HFI Rev. Kamlesh D. Patel





Contact US

For more information, kindly visit our page:

heartfulness.org/forests

For corporate gifting and CSR contributions,
kindly Email us at

fbh@heartfulness.org

HEARTFULNESS INSTITUTE

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Telangana - 509325, India.



Forests By Heartfulness

APPENDIX

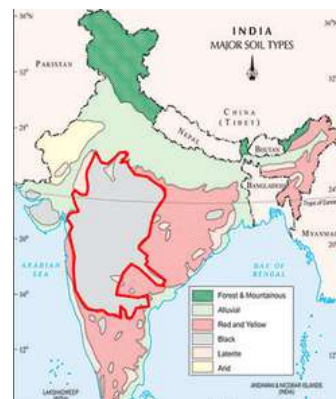
Plantation Guidelines



PIT PREPARATION & SAPLING PLANTATION WORKFLOW

Procedure for Lifting & Carrying Plant Sapling (depends on plant species)

- Bottom Cut of the growbag
- Place the Plant in the Pit in proper position (straight)
- Cut the growbag sides with vertical incision
- Fill good soil around the plant
- Tie the plant to support Bamboo stick with Jute thread
- Compact the soil around the plant by pressing with feet.
- Watering around the plant in required quantity (take care not to pour water near the plant root ball)
- Mulching (if available)/otherwise Green mulching (legumes)



Process Workflow : Step 1

Black Soil (if not available, Red Soil)

To be placed as the bottom most layer in the pit, after initial watering (wetting).

(depending on need; min 6" to max 9" or 10% of pit volume)



Major soils found in India:

- Alluvial soil [43%]
- Red soil [18.5%]
- Black/regur soil [15%]
- Arid / desert soil
- Laterite soil
- Saline soil
- Peaty / marshy soil
- Forest soil
- Sub-mountain soil

Soil is an important natural resource that requires crucial attention due to its significant role in crop yield. There is substantial ongoing research on soil health, particularly its water retention capability, moisture content, salinity, temperature, pH, concentration of dissolved gases, etc.

Black Soil

Among the in-situ soils of India, the black soils found in the lava-covered areas are the most conspicuous. These soils are often referred to as '**regur**' but are popularly known as "**black cotton soils**," since cotton has been the most common traditional crop in areas where they are found.

Black soils are derivatives of lava and are spread mostly across interior Gujarat, Maharashtra, Karnataka, and Madhya Pradesh on the Deccan lava plateau and the Malwa Plateau, where there is both moderate rainfall and underlying basaltic rock.

Because of their high clay content, black soils develop wide cracks during the dry season, but their iron-rich granular structure makes them resistant to wind and water erosion. They are poor in humus yet highly moisture-retentive, thus responding well to irrigation.

Rich in: Iron, lime, calcium, potassium, aluminum, and magnesium.; Deficient in: Nitrogen, phosphorus, and organic matter.; Color: Deep black to light black. ; Texture: Clayey.

Process Workflow : Step 2

Activated Bio-char

**Uniformly spread Activated Bio-char in the pit.
(500 gm to 1 kg)**

Biochar is the lightweight black residue, made of carbon and ashes, remaining after the pyrolysis of biomass, and is a form of charcoal.

Biochar is defined by the International Biochar Initiative as "the solid material obtained from the thermochemical conversion of biomass in an oxygen-limited environment".

Biochar is a stable solid that is rich in pyrogenic carbon and can endure in soil for thousands of years.

Soil amendment

Biochar offers multiple soil health benefits in degraded tropical soils but is less beneficial in temperate regions. Its porous nature is effective at retaining both water and water-soluble nutrients.

Biochar is hygroscopic due to its porous structure and high specific surface area. As a result, fertilizer and other nutrients are retained for plants' benefit.



Process Workflow : Step 3

Neem Powder + Vermicompost

Sprinkle Neem Powder (5 gm to 10 gm) Mixed with Organic Manure / Compost / Vermicompost (1-2 kg)

The Neem Tree (*Azadirachta indica* A. juss) and its derivatives have great relevance in organic farming practices. This remarkable tree has been identified as a renewable resource for home grown agro-chemicals and nutrients which are bio – degradable, non-toxic and effective.

Using neem derivatives for managing pests is a non-violent approach to controlling pests. Neem products work by intervening at several stages of the insect's life. They may not kill the pest instantaneously but incapacitate it in several ways. Neem very subtly employs effects such as repellence, feeding and ovipositional deterrence, growth inhibition, mating disruption, chemo-sterilization, etc.

The action of Neem products fulfills all priorities among environmental objectives. This unique tree is perhaps the most significant example of how nature can combine diverse functions i.e., the action of de-oiled Neem cake as a pesticide cum fertiliser.

Neem for Soil Fertility & Nutrient Management:

Indian farmers have traditionally used de-oiled Neem cake as a fertilizer in their fields. The dual activity of Neem cake as fertilizer and pest repellent, has made it a favored input. Neem leaves have also been used to enrich the soil. Together, they are widely used in India to fertilize cash crops. When Neem cake is ploughed into the soil it also protects plant roots from nematodes and white ants. Farmers in southern parts of India puddle neem leaves into flooded rice fields before the rice seedlings are transplanted.

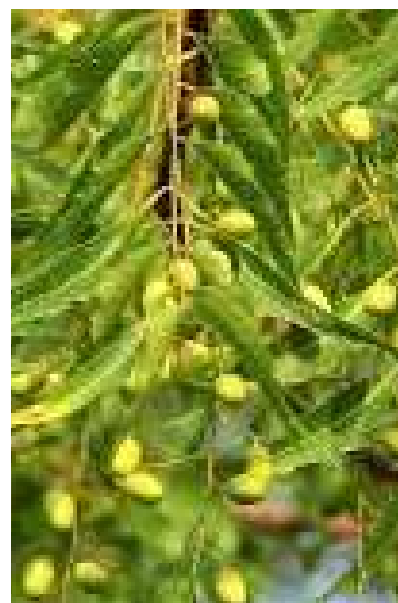
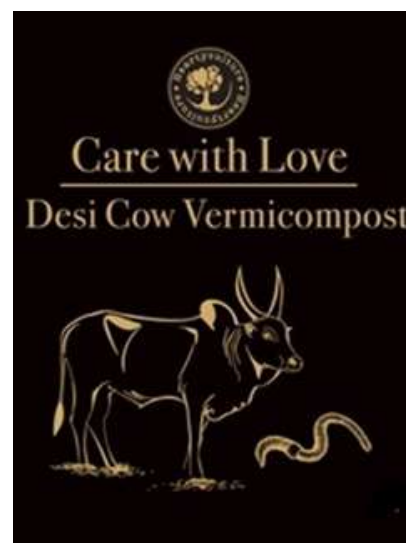
Application to the Neem seed cake to crops provides them with various nutrients. Besides the Neem seed cake also reduces the number of soil insect pests, fungi, bacteria and nematodes and protects the crop from damage caused by these organisms. Neem seed cake can also reduce alkalinity in the soil by producing organic acids when mixed with the soil. The calcium and magnesium present in Neem cake also aid in removing alkalinity.

Chemistry of Neem for Organic Farming:

Of special interest are terpenoids that are unique to Neem and some related members of this family. More than a hundred terpenoids are known from different parts of the Neem plant. Of its biological constituents, the most active and well studied compound is Azadirachtin. However in most traditional preparations of Neem as pesticide or medicine, a mixture of Neem chemicals are present and provide the active principles.

Preparation of Neem products for Organic Farming:

Neem is attracting world wide attention in recent decades mainly due to its bioactive ingredients that find increasing use in modern crop and grain protection.



Process Workflow : Step 4

Organic Gel Polymer

Place Organic Gel Polymer 5-10 gm in the proximity of plant sapling root ball.

Organic gel polymers

Organic gel polymers play a crucial role in modern agriculture, offering innovative solutions to enhance crop growth and sustainability.



Water Retention and Drought Resistance:

Hydrogels, which retain substantial amounts of water, are used to combat drought stress in crops. By absorbing and slowly releasing water, they help maintain soil moisture levels during dry periods, supporting plant growth and resilience. These hydrogels act as reservoirs, providing a steady supply of moisture to plant roots even when rainfall is scarce.

Nutrient Management:

Hydrogels serve as carriers for critical nutrients. They can encapsulate fertilizers, gradually releasing them over time. This controlled nutrient release ensures efficient utilization by plants and reduces nutrient leaching into the environment. By improving nutrient availability, hydrogels contribute to healthier crops and higher yields.

Seed Coating Agents:

When applied as seed coatings, hydrogels protect seeds during germination. They create a favorable micro-environment around the seeds, promoting successful sprouting and early growth. Seed coating with hydrogels enhances seedling establishment and vigor.

Transplantation Success:

Hydrogels aid in transplanting seedlings from nurseries to field soil. They minimize transplant shock by maintaining moisture around the roots, ensuring a smoother transition for young plants. Improved transplantation success leads to better crop establishment.

Biodegradability and Sustainability:

Natural biopolymer-based hydrogels are preferred due to their safety and environmental compatibility. Unlike synthetic alternatives, these organic gels break down naturally, leaving no harmful residues in the soil. Sustainable farming practices benefit from the use of biodegradable hydrogels.

In summary, organic gel polymers contribute significantly to agriculture by addressing water scarcity, nutrient management, seedling health, and environmental concerns.

As we strive to feed a growing global population, these soft materials offer promising solutions for sustainable farming practices of the future.

Process Workflow : Step 5

**Excavated Topsoil (Mother Soil)
Complete Plantation with Excavated
Topsoil (Mother Soil) filling around
the plant and Bamboo Support Sticks
as per process steps given below**

- Bottom Cut of the growbag
- Place the Plant in the Pit in proper position (straight)
- Cut the growbag sides with vertical incision
- Fill good soil around the plant
- Tie the plant to support Bamboo stick with Jute thread
- Compact the soil around the plant by pressing with feet
- Watering around the plant in required quantity (take care not to pour water near the plant root ball)
- Mulching (if available) / otherwise Green mulching (legumes)
- Bund preparation around the Plant with let out soil



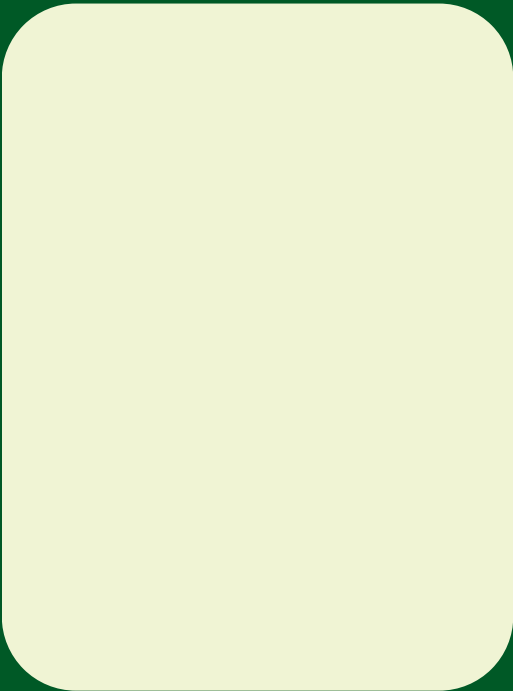
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IN TUNE WITH NATURE.



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