

## BGSW Plantation Report

Implemented by	Heartfulness Institute	Report status	Final
Month of reporting	July 2023	Reporting period	Jan 2023 – June 2023
Locations	<ul style="list-style-type: none"> <li>• Bangalore, Karnataka</li> <li>• Hyderabad, Telangana</li> <li>• Pune, Maharashtra</li> <li>• Coimbatore, Tamilnadu</li> </ul>	Total area covered	8 acres

### About the Organization:

Forests by Heartfulness (FBH), an initiative of Heartfulness Institute is an ecological movement envisioned to conserve the native, endemic, endangered species of the country and enrich the mega-biodiversity while sequestering carbon permanently from the atmosphere. We specialize in the creation of dense mini forests in urban & rural areas and are supported by a network of 18 nurseries across the country. Geo-tagging of trees through GPS technology integrated with Google Earth and Maps are done, thus providing visibility and transparency to the stakeholders.

### Projects overview

A total of 24,500 saplings have been planted across 4 locations in Karnataka, Tamilnadu, Telangana and Maharashtra. As per the afforestation guidelines, the native and local vegetation of the region have been planted to enrich the biodiversity of the region.

### Key Objectives

1. To attract significant biodiversity (flora and fauna)
2. To provide naturally grown fruit and medicinal herbs to local communities
3. Create a microclimate and abating city climate
4. Raise local groundwater table
5. Sequester at least 3000 tons of carbon over next 20 years

### Major Deliverables for the current reporting period

Outcome	Description (Activities/Achievements/Data)
Survival and health of saplings	Hypercare for 3 months and Aftercare (after 3 months)
Branding @ Plantation site	Each plantation site has been branded (either using a carved stone or a board) highlighting collaboration  Hyper care (first 3 months)
Employee engagement	FBH and Bosch teams have coordinated to host employees to take part in the plantation drive at their respective sites.

### Dense Mini Forest, KSV Layout, Telangana



### Dense forest Plantation, Telangana





### Dense forest Plantation, Telangana



### Lush green vegetation, Telangana





## Katriguppe Village, Karnataka



## Well grown plantation in Karnataka





## Well grown plantation in Karnataka



## Green vegetation in Karnataka





## Heartfulness Retreat Center, Pune



## Plantation site in Pune





## Dense forest in Pune



## Plantation site in Pune



## Quantitative Report

Plantation Site	Date of Plantation	No of saplings planned	No of saplings planted	Tree species planted	Shrubs & herb species planted	Present survival status of tree saplings (Census from May 2023). Next count due in Dec 2023.	Survival rate*
Bengaluru	18-Mar-22	5000	5045	800	4245	715	89%
Pune	1-Nov-22	2000	2000	600	1400	550	92%
Kanha	25-Feb-22	15000	15122	3000	12122	2700	90%
Coimbatore	4-Mar-22	5000	2500	915	1585	850	93%

\* Survival rate is reported only for tree species as shrubs have shorter lifetime.

## Site wise qualitative Details

Plantation Site	Date of Plantation	Water Source	Irrigation Methodology	Aftercare strategy	Site challenges	Steps taken
Bengaluru	18-Mar-22	Neighboring lake	Hosepipe irrigation from lateral pipes	Dedicated caretaker	1. Drought conditions & water shortage caused most shrubs to die during summer months 2. Site not properly fenced as land re-survey is pending	1. A submersible pump was installed in Kathriguppe lake and water connection provided to the site. Shrubs will be replanted by September. 2. Working with temple authorities to fence the whole site
Pune	1-Nov-22	Borewell water	Drip Irrigation	Dedicated caretaker	1. Water shortage during summer months	1. A new borewell was dug and water shortage has been overcome
Kanha	25-Feb-22	Borewell water	Raingun irrigation	Dedicated caretaker	1. Too much growth of shrubs, suppressing tree growth.	1. Shrubs are regularly thinned and pruned by the maintenance team, leaving enough sunlight for the tree species.



Coimbatore	4-Mar-22	Onsite Borewell	Drip Irrigation	Farmland labor	1. Severe water challenges leading to all shrubs dying. Since land is privately owned, no remediation action could be taken.	1. The entire plantation shall be done in a different site. Awaiting BGSW to confirm on the new site proposed.
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### Photographs of Activities

#### Land selection and preparation

#### Land Levelling





## Pit Digging



## Soil reconstitution

### Black soil, compost and biochar filling





### Life Watering



### Neem cake, Bionic, Paddy husk and Solid water





### Black soil mixing



### Red soil mixing





## Charcoal Mixing



## Post plantation

### Drip Irrigation system





### Rain gun installed



### Pond development for rain water harvesting





## Mulching of Biomass



## Regular weeding

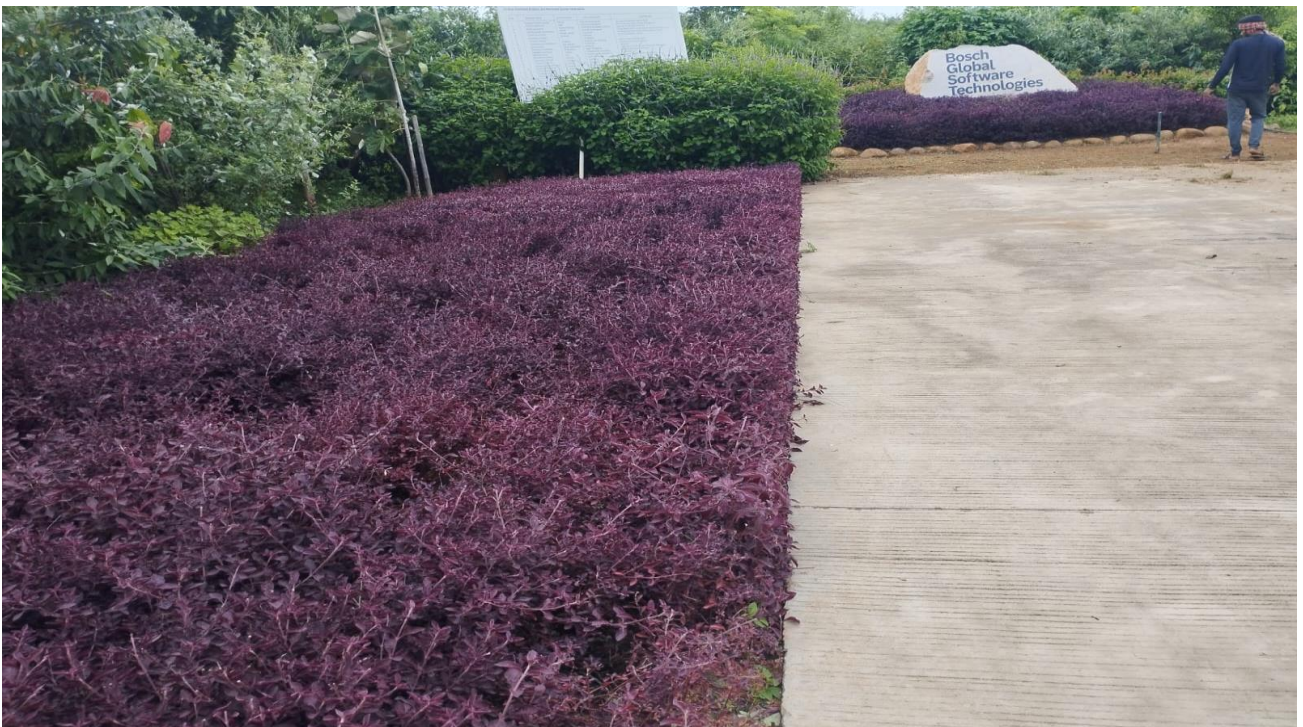




### Nutrition and Medicine spray





### Hedge Trimming





**Special species planted across the sites that contribute to biodiversity**

	<p><b>Common names:</b> Camphor Tree. Evergreen large tree up to 30 m.</p> <p><b>Distribution:</b> World: Bolivia, China, El Salvador, Honduras Japan, Korea, North America, Viet Nam and India.</p> <p><b>Conservation status:</b> Least Concern.</p> <p><b>Medicinal uses:</b> Essential oil and Camphor is used for the treating of inflammation, infection, congestion, muscle pain and irritation in various regions.</p>
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	<p><b>Common names:</b> Iluppai. Deciduous tree up to 15 m.</p> <p><b>Distribution:</b> World: Endemic to South India (Karnataka and Kerala)</p> <p><b>Conservation status:</b> Critically Endangered.</p> <p><b>Medicinal uses:</b> Used in Indian traditional medicine as anti diabetic, antiulcer, hepato protective, anti pyretic, anti fertility, analgesic, anti oxidant, swelling, inflammation, piles, emetic, dermatological, laxative, tonic, anti burn, wound healing, headache and many more problems.</p>
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**Common names:** Wild Jack Fruit tree.  
Semi Evergreen tree up to 20 m.

**Distribution:** World: India (Karnataka, Kerala, Goa, Maharashtra and Tamil Nadu).

**Conservation status:** Least Concern.

**Medicinal uses:**

**Bark:** Used in Indian traditional medicine for treating of diabetes, tapeworm infection, anemia, malaria fever, asthma, dermatitis, diarrhea, pimples and ulcers also used in Chinese medicine for curing of many diseases.



**Common names:** Coffee plant.  
Small Evergreen tree up to 5 m.

**Distribution: World:** Ethiopia, South Sudan and introduced to many places of the world.

**Conservation status:** Endangered.

**Medicinal uses:**

**Leaf and Bark:** Used for treating influenza, anemia, edema, asthenia and rage.

**Fruit and seed:** Used for stress relief.





**Common name:** Malabar Jamon, Vallamanchi  
Evergreen tree up to 15 m.

**Distribution:** World: Endemic to South India, especially to Western Ghats of Kerala and Karnataka.

**Conservation status:** Endangered, Native (Karnataka and Kerala).

**Medicinal uses:**

**Fruits:** edible good for diabetes.

**Leaf:** Used for anti-microbial and anti-bacterial also leaf juice for diabetes.

**Major Deliverables for the next reporting period (July to Sep 2023)**

Activity	Expected Outcome
Replant shrubs in Bangalore Kathriguppe site	Gap filling completed and site replanted to original capacity of 5000 saplings
Re-do the plantation project in Coimbatore (Subject to BGSW finalizing the site)	Replant the 5000-sapling forest in Coimbatore