



STRIIM ENGINEERING SERVICES
INDIA PRIVATE LIMITED

PROJECT COMPLETION REPORT

MARCH 2024

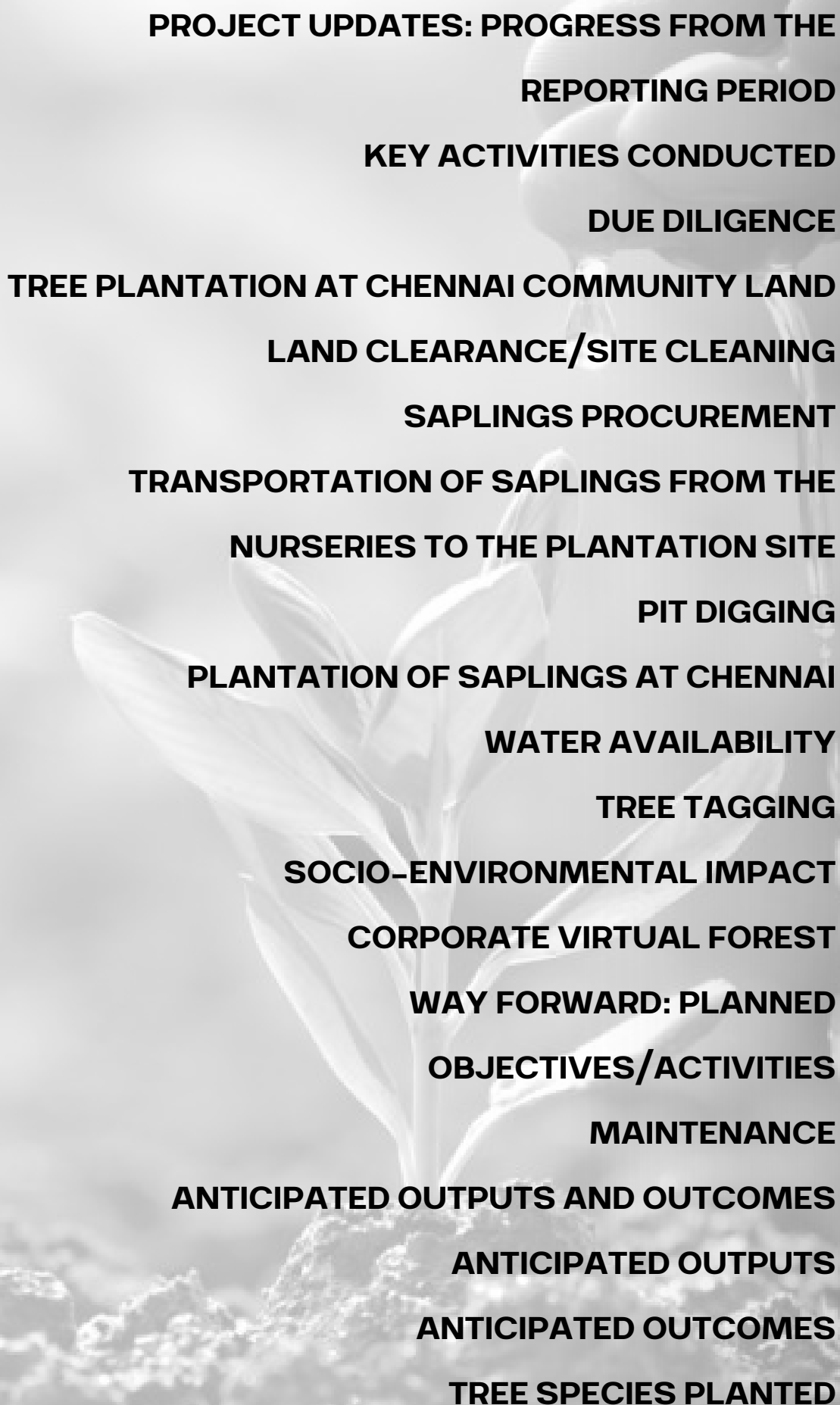
21 February 2024 to 31st March 2024

Submitted by:

SanalpTaru.org®
We don't just plant!



Chennai



**PROJECT UPDATES: PROGRESS FROM THE
REPORTING PERIOD
KEY ACTIVITIES CONDUCTED
DUE DILIGENCE
TREE PLANTATION AT CHENNAI COMMUNITY LAND
LAND CLEARANCE/SITE CLEANING
SAPLINGS PROCUREMENT
TRANSPORTATION OF SAPLINGS FROM THE
NURSERIES TO THE PLANTATION SITE
PIT DIGGING
PLANTATION OF SAPLINGS AT CHENNAI
WATER AVAILABILITY
TREE TAGGING
SOCIO-ENVIRONMENTAL IMPACT
CORPORATE VIRTUAL FOREST
WAY FORWARD: PLANNED
OBJECTIVES/ACTIVITIES
MAINTENANCE
ANTICIPATED OUTPUTS AND OUTCOMES
ANTICIPATED OUTPUTS
ANTICIPATED OUTCOMES
TREE SPECIES PLANTED**

We are the leading IT enabled NGO working in environment sector

MESSAGE FROM THE FOUNDER

In 2012, the SankalpTaru Foundation embarked on a mission to promote functional greenery nationwide while simultaneously nurturing delicate ecosystems. Since its inception, the foundation has been dedicated to creating a diverse network of interconnected habitats, laying the groundwork for sustainable environmental practices. We have planted and survived 7+ million trees, and have maintained a survival rate of 80-85% even in difficult terrains of the Sundarbans, Lower Himalayas, cold deserts of Ladakh, coastal areas where there are always probabilities of salt ingressions, and in arid to semi-arid edaphic conditions



Apurva Bhandari
Founder

Recently we have been acknowledged as,

- **Top Innovator by @UpLink World Economic Forum for the Trillion Trees: Restoration at Scale Challenge**
- **Actor for the UN Decade on Ecosystem Restoration 2021-2030**
- **Received Special Mention for our noteworthy contributions to Digital Innovation in the Environment and Climate Change category at the esteemed 8th e-North East Award 2023.**

Key activities conducted

Due Diligence : Site Survey, Travelling, Mobilization, Initiation of Discussion with Authorities, Examine of land, Soil, Location & water availability.

Tree Plantation at Chennai Community Land

After doing a site survey in and around Chennai, where there is a need for trees. The SankalpTaru team held multiple meetings with the relevant authorities to obtain the necessary permission/NOC of approval for the tree plantation activity at the designated site.

Chennai Tree Plantation Location:

Kannapalayam Panchayat land, Mahalakshmi Nagar, Avadi Chennai

Google map location:

<https://maps.app.goo.gl/1kbiGF3GJmXNi1SSA>

**PROJECT
UPDATES :
PROGRESS
FROM THE
REPORTING
PERIOD**



Land Clearance/Site Cleaning

Removal of the weeds, invasive plants, and rocks from the land.

To ensure that we can undertake the plantation program on the finalized plantation site, SankalpTaru's on-ground operations coordinators begin with clearing the land. This includes clearing the rocks, invasive plant species, weeds and other elements on the plantation site which might hamper the plantation activity. Mature trees which are existing on the plantation site are left unharmed as they are vital additions to the plantation site. For the land clearance activity, we employ labour, JCB's and other machines to help expedite the process so as to progress to the next step in the execution of the program.



Site clearance activity- Chennai

Fencing

We completed the fencing for the tree plantation site following the site clearing.



Saplings Procurement

Transportation of saplings from the nurseries to the plantation site

SankalpTaru had procured the tree saplings from the local nurseries (our focus was on procuring the native species which grow in and around the plantation site).

For the plantation, we had planted grafted saplings as they are more resistant to diseases and pests. The average age of the saplings were 8 months to 1 year. The height of the saplings ranged from 2.5 feet (guava, custard apple) to 6-8 feet (forest species)

For the community land transformation model, we have tried to replicate a mini forest wherein we have planted native trees and a mix of fruit bearing trees, shade giving trees and flowering trees.

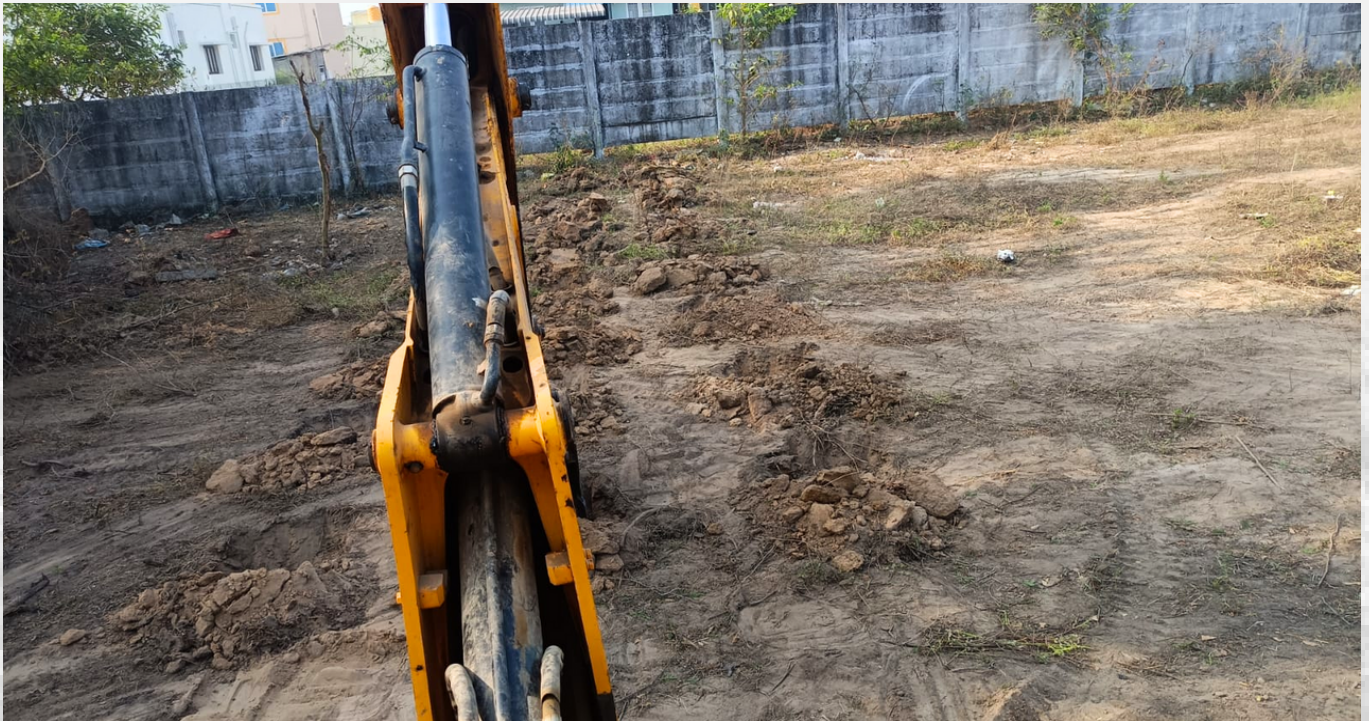


Sapling transportation from nursery to plantation site

Pit digging

To hasten the process of creating pits for the saplings to be planted, pit digging requires the use of employing the manual labour, JCBs, and equipment like augers.

Pits were dug with the help of machineries on an interval of 5 feet x 5 feet and 6 feet x 6 feet



Plantation of saplings at Chennai

Trees are planted in High-density trees plantation method.

In the High-density tree plantation, trees are planted 4-5 feet spacing between each sapling, which means 2640 trees planted in approx. 1 acre.



Tree Plantation Block Chennai

Water availability

The Chennai tree plantation site lacks nearby lakes or ponds, thus drip irrigation and a borewell is using to supply water



Borewell Digging

Tree Tagging

Trees are photographed and geotagged

Geo-tagging- Every tree planted is tagged by our on-ground coordinators through our G-5 app developed by SankalpTaru R & D team. By using geo-tagging corporates can locate the exact location of a plants.

What is geo-tagging?

Geo-tagging the tree refers to the process of attaching geographical coordinates to a tree's location using GPS technology - tracking methods. This allows individuals or organizations to precisely identify where a specific tree is located on the Earth's surface. Geo-tagging trees can be useful for various purposes such as environmental monitoring, forestry management, urban planning, and conservation efforts.



Socio-Environmental Impact :

Chennai



3443.17 tons

O₂ to be generated at an average



4732.75 tons

CO₂ to be sequestered at an average



Approx 32.19 acres

Area greenified approx

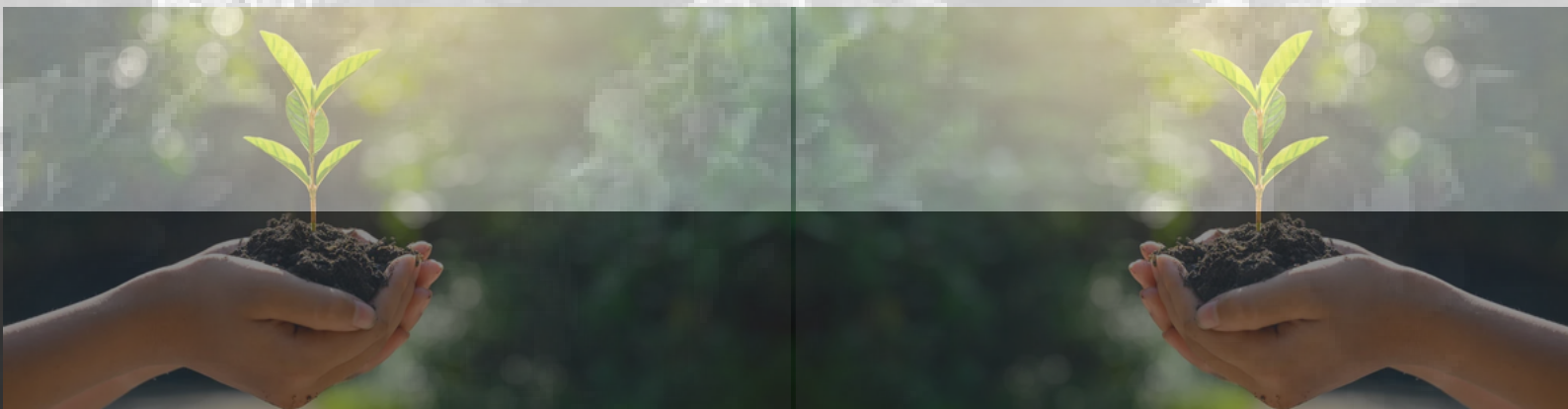


Corporate Virtual Forest



Corporate Virtual Forest Link:

<https://sankalptaru.org/c/Striim-Engineering-Services-India-Pvt-Ltd-Tree/>



Anticipated outputs and outcomes

Anticipated Outputs

- 1.maintenance and monitoring of the plantation block

Anticipated Outcomes

- 1.Creating a green patch in the barren land- These trees will also help in sequestering carbon emission, hence better air quality.
- 2.Promoting biodiversity conservation by planting native tree species

Tree Species Planted in Chennai

Sl	Common Name	Scientific Name
1	Arjun	<i>Terminalia Arjun</i>
2	Spanish cherry	<i>Mimusops elengi</i>
3	Mahua	<i>Madhuca longifolia</i>
4	Amla	<i>Phyllanthus emblica</i>
5	Pungan	<i>Pongamia pinnata</i>
6	Badam	<i>Terminalia catappa</i>
7	Cottan tree	<i>Bombax ceiba</i>
8	Vanni plant	<i>Prosopis cineraria</i>
9	Rain tree	<i>Samanea saman</i>
10	Malabar Nut	<i>Justicia adhatoda</i>
11	Neem	<i>Azadirachta indica</i>
12	Mahogany	<i>Swietenia mahagoni</i>
13	Cashew	<i>Anacardium occidentale</i>
14	Rosewood	<i>Dalbergia Sissoo</i>

Way Forward

Planned Objectives/Activities

Regular maintenance

- The planted trees will be monitored and maintained for a period of 2 years by our project coordinators and team..
- Project Update annual report on the survival of the trees for 2 years.



Visit our website
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Thank you for planting with us.

<https://sankalptaru.org>

Our Social Media

