



14 Trees

14 Trees Foundation

(A Section 8 Company)

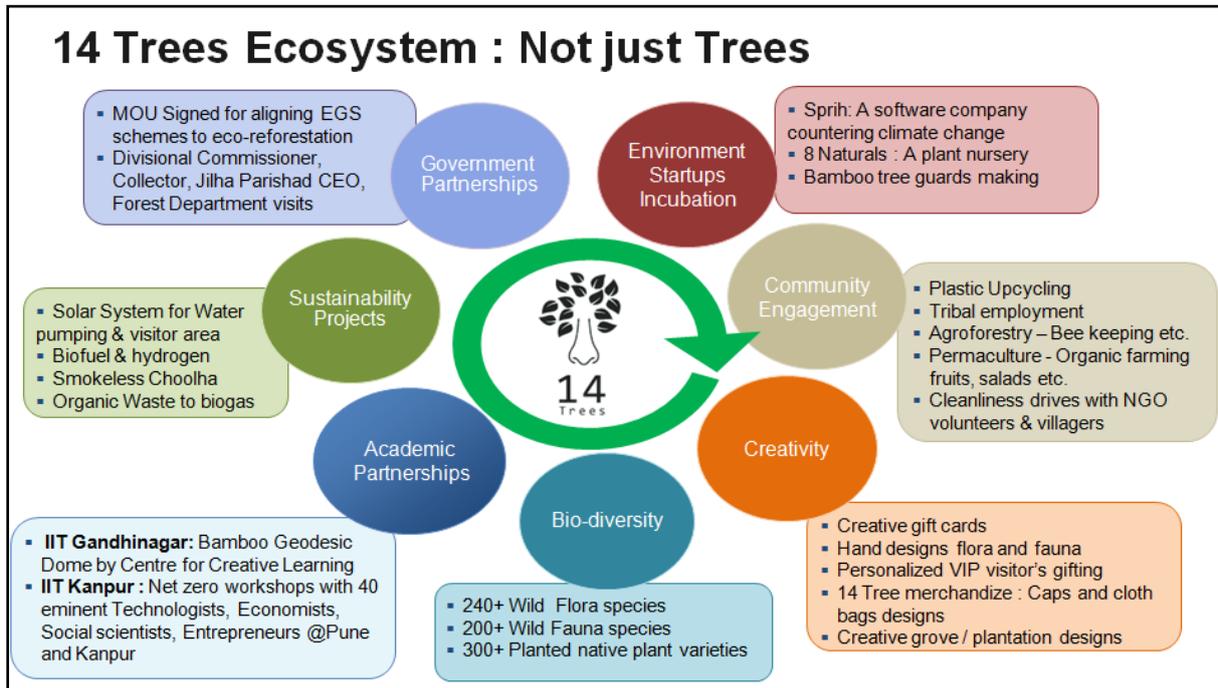
Annual Report

FY 2022-23





From the Founder's desk:



At a Glance:

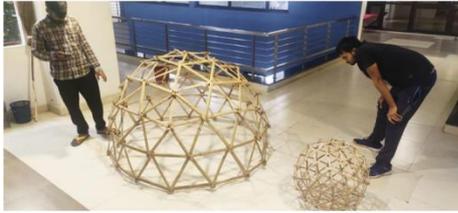
Trees 80K	Ponds 85	Land -Acres 200	Growth -Acres 1000	Schools 90+
Livelihood 150+ tribals	Partners 10	Native Plants 300+	Bio-Diversity 300+ Species	Sites 250+
Farmers 100+	Corporates 10+	Gram Panchayats 30+	Visitors 4000+	Events 6





Innovation with Academic Partnerhips:

Academic Partnerships – IIT–Gandhinagar, IIT-Kanpur



IIT Gandhinagar: Children from the Siddheshwar School at Vetale learnt making their first Geodesic Dome out of Bamboo, Conducted by Centre for Creative Learning, IIT Gandhinagar. Bamboo Bin workshop began with a few Scientific toy exercises.

IIT Kanpur: 40 eminent Technologists, Economists, Social scientists, Entrepreneurs, Ecologists and Policy Makers to participate in an interdisciplinary workshop on achieving carbon neutrality & sustainability in Pune (March) and at IIT Kanpur (October).
Participants: 14 Trees Foundation, Ecological Society, - Pune International Center (PIC), Pune Knowledge Cluster (PKC), IISER, Pune, - ATREE (Ashoka Trust for Research in Ecology & the Environment)



Great Circles are called Geodesics:

14 Trees completed a workshop for children from the Siddheshwar School at Vetale making their first Geodesic Dome out of Bamboo. It was conducted by Centre for Creative Learning, IIT Gandhinagar. The faculty skill-fully led the kids to a hands down experience with Bamboo sticks. The Bamboo Bin workshop began with a few Scientific toy exercises. Despite rainy day, a full house of 100 school kids turned up for the workshop and created 3 domes.

These domes are a work play of bamboo sticks of three slightly different sizes named A, B, C and constructed as Pentagons and Hexagons before they are joined at vertices with screws and nuts. Obviously, bamboo sticks cut to size and holed on both ends were provided to the kids. But the speed with which they absorbed the technique was a thing to see. 2 batches consisted of 5 th to 9 th graders mixed to form a batch each. Finally 2 domes were woven together with ropes to make a sphere and one kept half. 14 Trees trusts that once the construction of the basic structure is learnt with more such workshops many more uses other than a garbage bin can be thought off. The ball is set rolling.

Just a little about Geodesic Domes

Insights into patterns that nature comes up with were first put to use by a German, Dr Walther Bauersfeld, and then later by an American architect Richard Fuller to create these sturdy Geodesic Domes that can be used for purposes that one could imagine. Matrimandir at Auroville is one of the best applications of a Geodesic Dome structure in India.





Government Partnerships

Collaboration with Government officials from the beginning of the project has lead to formal partnership opportunities

Big step forward with positive discussions with Deputy commissioner, EGS. Proposal of aligning EGS schemes to eco-restoration efforts. MOU signed with 14 Trees for collaboration.



निकृष्ट, नापीक, पडीक जमिनींचे होणार पुनरुज्जीवन

विभागीय आयुक्त कार्यालय आणि १४ ट्रीज फाउंडेशनमध्ये करार

अहमदनगर - जिल्हा परिषद कार्यालय येथील पर्यावरण वृक्ष कर्मिणी, कर्मिणी केंद्र वगैरे वरून होत असलेल्या जमीन क्षेत्रात पुनरुज्जीवन करणारे होणार असल्याचे ठरविले आहे. या कराराच्या अंतर्गत १४ ट्रीज फाउंडेशनच्या मदतीने जमीन क्षेत्रात पुनरुज्जीवन करणारे होणार असल्याचे ठरविले आहे. या कराराच्या अंतर्गत १४ ट्रीज फाउंडेशनच्या मदतीने जमीन क्षेत्रात पुनरुज्जीवन करणारे होणार असल्याचे ठरविले आहे.

Dedicated groves for various thematic areas

Groves

- Birthday Grove
- Anniversary Grove
- Memorial Grove (Smritivan)
- IITK Faculty Grove
- Nature Love's Grove
- Corporate Grove
- Family Grove
- IITK diamond Jubilee Grove
- Ecological Society Founder Prakash Gole Memorial Grove





Volunteers driven creative zone @ 14 Trees

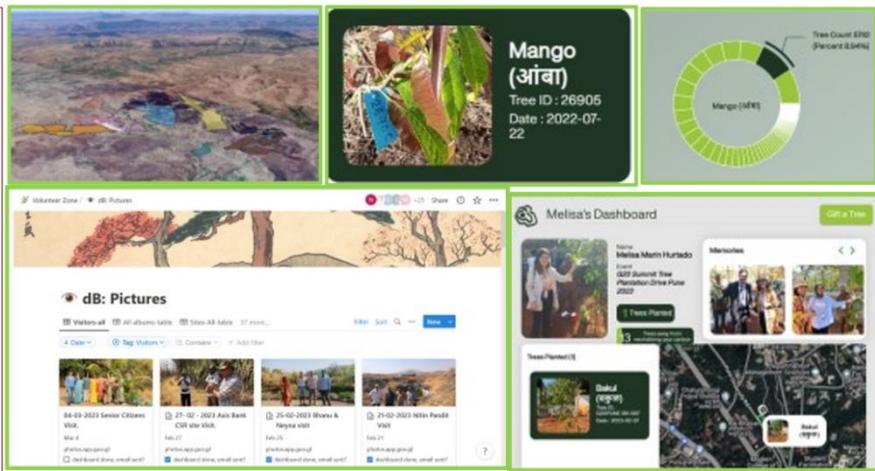
Creative Gift Cards, Festive Wishes, Grove Signatures by natural materials, creative bamboo structures, 14 Trees site and flora fauna sketches and much more ..



Use of Technology for 14 Trees administration

Optimization of admin costs by use of technology for data, visitors, volunteers, and project management

- **Notion** for Content Management
- **Google Earth** for zones mapping
- **Geo tagging** for tree tracking
- **Google forms and sheets** for financials, ponds, trees, water level tracking
- **Dashboards** for tree reporting





G20 Collaboration with 14 Trees for tree plantation



Prakash Gole Memorial Grove:

11-Jan-2023 marked the Birth Anniversary of noted ecologist Prakash Gole Founder of the Ecological Society, Pune. For the past 25+ years Ecological society has been conducting one year diploma in “Sustainable Management of Natural Resources and Nature Conservation”. In late 2022, discussions between Pravin Bhagwat, FES volunteers, KPIT CSR team and some of the 14 Trees Foundation volunteers led to the conception of grove in the memory of Prakash Gole. A grove which will be planted by Ecological Society Alumni over the course of four weeks ends in January and February 2023.

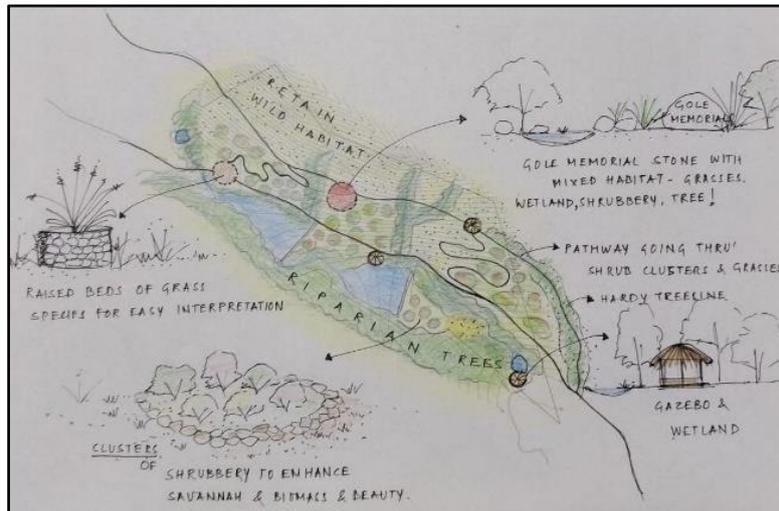




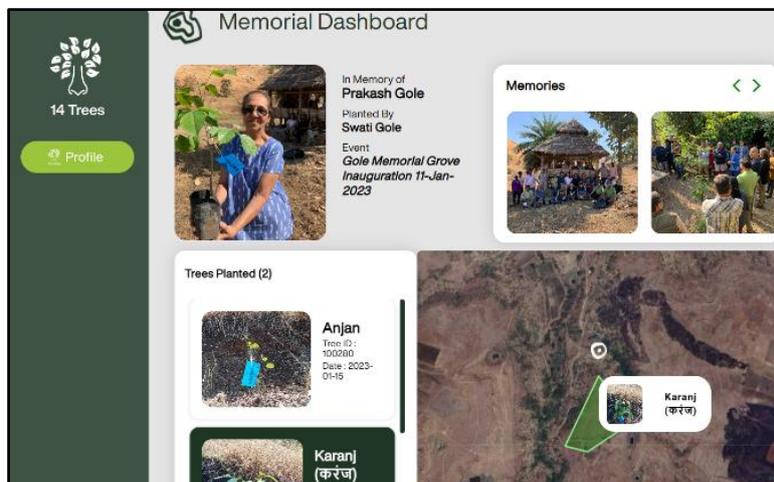
Ecological Society Alumni visited in groups:



The layout for the Gole Grove is well planned:

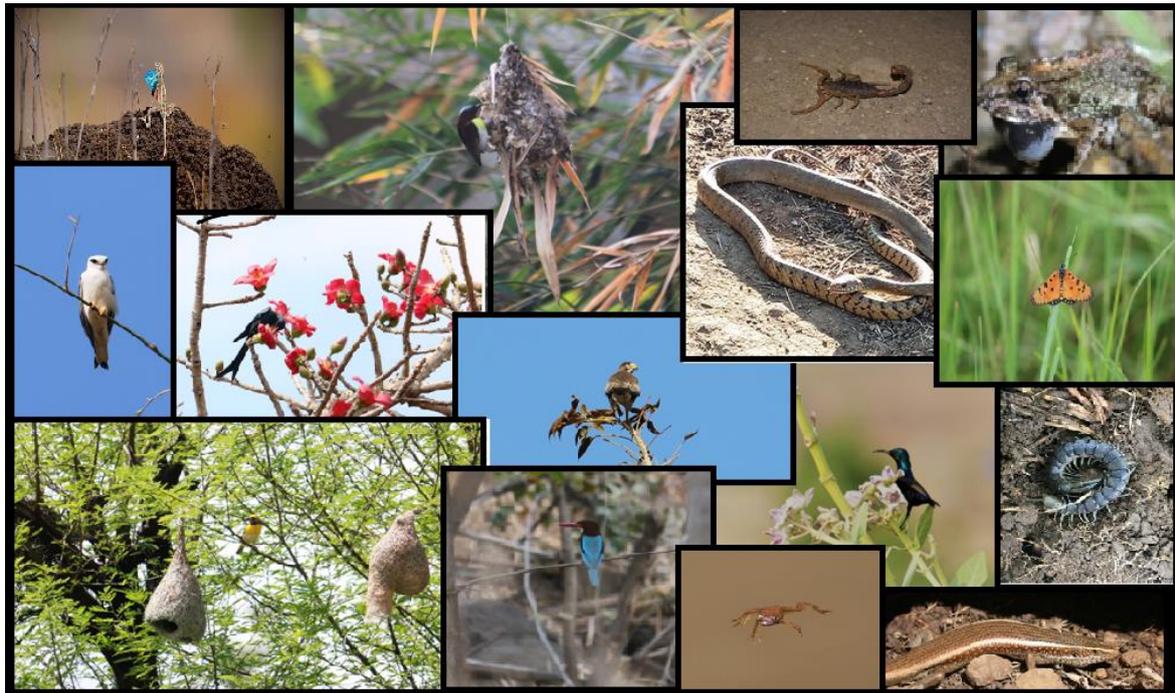


Dashboards were created for every sapling planted:

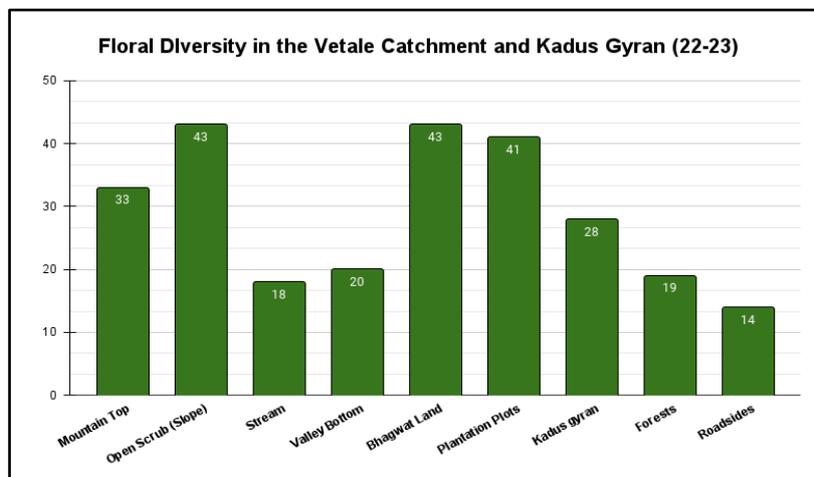
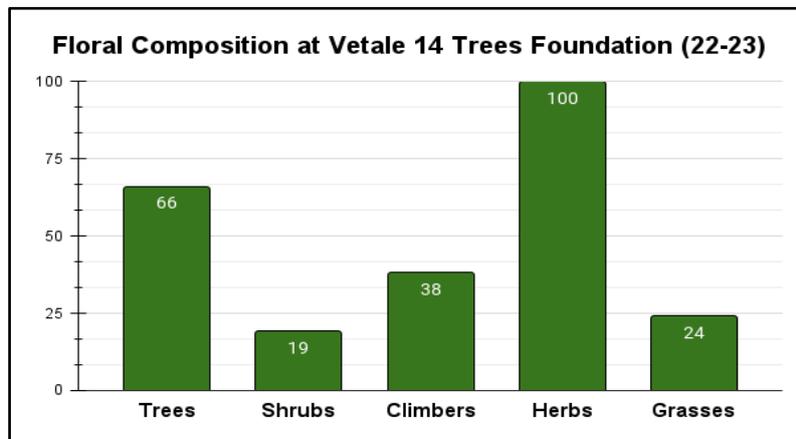




Bio-diversity:

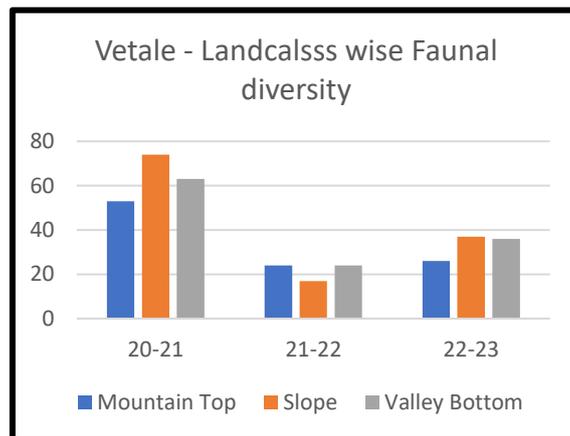
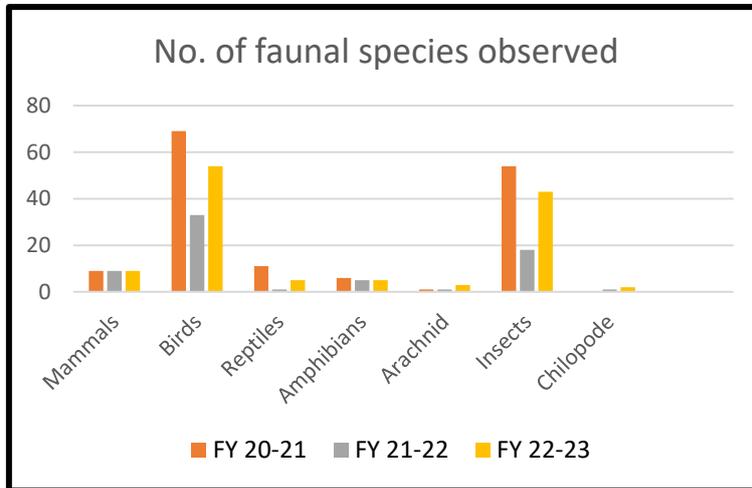


FLORA: 247 species in total listed so far.





The floral diversity at the Vetale catchment is changing gradually with new additions and deletions in number of according to the changing ecology within the time and space. However there is significant retaining of species at Bhagwat Land since it is protected. There is also an increase in number of wild species in this area. Plantation plots are exhibiting newly recorded species from the site. This underlines the positive impact on land use and land changes with possible enhancement in biodiversity in future.



Comment on ecology & biodiversity of the area – (Fauna)

Ecology: Area of Vetale catchment is mainly open scrub with mixed habitats such as forest (plantation), Plateaus, Grassland, and Streams. Forest floors are devoid of vegetation in certain patches. However, good riparian zones are formed wherever there is vegetation on the sides of a water body. Mountain tops and grassland patches associated with streams and streamlets, farm-fields in the valley bottoms also show diversity of fauna. Bamboo & Teak plantations are seen on slopes.

Biodiversity: Birds of prey such as **Black-winged Kite** were observed nesting on Teak Trees near water bodies. **Migratory birds, like Common Kestrel, Common Sandpiper,** were observed. In late winter, Golden Jackal, **Grey Wolf,** and Bengal Fox were sighted by locals in the project area. Water birds, such as Common Sandpiper and Little Grebe, were observed in newly formed water body near the 14 trees foundation site. Few species were newly observed in FY 22-23 (May '22 to Dec '22). Species viz. Common Sandpiper, Little Grebe (Birds), Blue Oakleaf, Common Silverline, and Tawny spotted Grass Dart (Butterfly), Hooded Grasshopper, Convolvulus Moth (Insects), Rock Gecko, Brook's Gecko (Reptile) were also seen.





Garbage Free Vetale Village: A beginning

Prayas Youth Forum an NGO for facilitating Volunteering in Engineering Colleges in and around the city had planned a visit to 14 Trees to do cleanliness drive and plant 14 Trees. We decided to experiment with a different, out of the box, idea which enabled us to channel their energy into a task that was pending in our todo list for a very long time.

Some highlights of the garbage cleaning events.

- The group walked upto Thakarwadi Vasti on the top most part of the hill and did a cleanliness drive on our way up as well in and around the Vasti.
- The school headmaster of the Zilla Parishad school ushered the team with available flowers to welcome.
- Like always, different kinds of 14 Trees related information was discussed in a question answer kind of format all through the walk and near the Zilla parishad school at Thakar wasti.
- The Geodesic Dome made by Zilla Parishad school under the guidance of CCL IIT Gandhinagar has been installed as a garbage bin at Thakarwadi yesterday to collect plastic.
- We were able to impress young minds and productively engage them in nature conservation activities resulting in their motivation and inspiration towards environmental issues.
- A young leader of Thakarwadi wasti came forward to take ownership on Geodesic garbage bin. He will spread the message in the community to start dumping waste in the garbage bin.





Stories of 14 Trees:



Special Memories

Ms. Vijaya Kortikar (85 year old lady) arrived from Mumbai today to plant 15 trees in the name of her son's 60th birthday on 2nd Feb 2023.



Senior Citizen's Visit

We had Super seniors women (4 of them above 75 years of age) visiting 14 Trees to bless the project with plantations and loads of good wishes. Hope to make many more seniors happy with such healthy happy trips.



Distinguished Guest

Ajit Ranade the Economist, reporter and Vice Chancellor of Gokhale Institute.





About 14 Trees Foundation:

14 Trees Foundation is a charitable organization dedicated to building sustainable, carbon-footprint-neutral ecosystems through reforestation. The Not-for-profit company has an ambitious goal of transforming barren patches of land into sustainable forests.

For more information on 14 Trees Foundation, please visit www.14trees.org

About the founder: Pravin Bhagwat

Pravin Bhagwat is an entrepreneur and a wireless security researcher. He was Co-founder & CTO of Mojo Networks -- a product venture which started in year 2003 from Pune and grew to become a leading provider of Cloud Managed Secure Wi-Fi for the global market. In 2018, the company was acquired by Arista.

Prior to starting his entrepreneurial journey, Pravin served as a Visiting Faculty at Computer Science Department, IIT Kanpur. In 2005, Pravin was awarded MIT's Global Indus Technovator Award for successfully engineering the world's first multi-hop WLAN network. Pravin is also the recipient of IIT Kanpur Distinguished Alumnus Award of 2019.

*14 Trees can absorb every bit of CO₂
you breathe out over your lifetime.*



*Start planting your 14 trees now! Leave no
carbon footprint behind.*



www.14trees.org

