

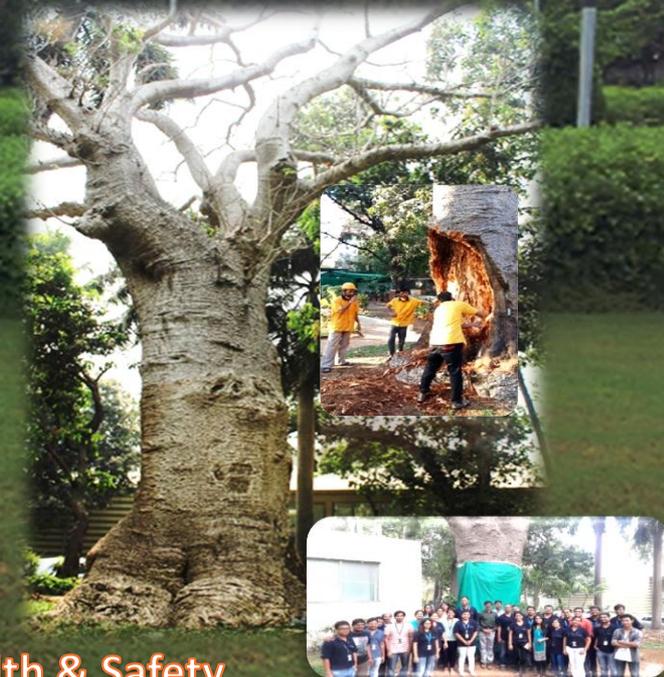
Project No-1:

Urban Wildlife Conservation @ TCS



Project No-2

In-situ Conservation of Rare & Threatened Baobab Tree "Adansonia digitata" @ TCS Yantra Park, Thane



Sector: IT Industry

Category: Biodiversity Management

Presenter

Dr. Laxmikant Naik
Senior Consultant

Environmental Sustainability, Health & Safety

TCS Campuses Under Consideration for Project

S.No	Name of Facility	Location	Total Area(acres)
1	Adibatala	Hyderabad	78.45
2	Banyan park	Mumbai	22.27
3	DeccanPark	Hyderabad	11.40
4	Garima Park	Gandhinagar	25.50
5	Gitanjali Park	Kolkata	50.00
6	Indore	Indore	100.00
7	Kalinga Park	Bhubaneswar	44.50
8	New campus	Kochi	15.72
9	Mihan	Nagpur	53.9
10	Peepul Park	Trivandrum	12.0
11	Sahyadri Park	Pune	48.0
12	Siruseri	Chennai	70.5
13	SNR	Chennai	8.59
14	Synergy Park	Hyderabad	69.23
15	Think campus	Bengaluru	10.00
16	Yantra Park	Thane	13.50

Increased Urbanization

Awareness

Loss of Habitat

Trigger of Project

Hunting Killing Poaching

Conservation of urban wild habitat

Human Wildlife Conflict

Conservation of Wild Habitat

Successful release to natural habitat

Creation of Habitat/ Waterfront

Uniqueness of the Project & Milestones

State Forest Dep/ NGO's

Rescue of Displaced Animals

Rescue of Orphaned & Injured Animals

**Duration of Project
2016-17-2022-23**



Conservation of Sacred Grove @ Kochi



Conservation of Bat Colony @ Mumbai



Protection of Honeycomb



Creation of Nature Habitat @ Hyderabad



Creation Aquatic Habitat @ Hyderabad



Rainwater Harvesting Lake @ Chennai



**Indian Dhole
(Cuon alpinus)**



**Indian Monitor Lizard
(Varanus bengalensis)**



**Russell's Viper
(Daboia russelii)**



**Indian Cobra
(Naja naja)**



**Indian Sand Boa
(Eryx johnii)**



**Indian Rat Snake
(Ptyas mucosus)**

- ❖ Chamaeleon zeylanicus (Indian Chameleon)
- ❖ Ahaetulla pulverulenta (Brown Vine Snake) (En)
- ❖ Bungarus caeruleus (Indian Common Krait)
- ❖ Craspedocephalus gramineus (Indian Green Pit Viper,)
- ❖ Sus scropha (Indian Wild Boar)End



**Small Indian Civet
(*Viverricula indica*) @ Kochi**



**Indian Blue Bull
(*Boselaphus tragocalamus*) @ Indore**



**Sparrow Hawk
(Accipiter nidius)**



**White-breasted Waterhen
(Amaurornis phoenicurus)**



**Barn Owl
(Tyto alba)**



**Indian Peafowl/ Peacock
(Pavo cristatus)**



**Black-necked Ibis
(Threskiornis melanocephalus)**



**White-throated Ground Thrush
(Zosterops citrina cyanotus)**

**Project Title : In-situ Conservation of Rare & Threatened Baobab Tree
"Adansonia digitata" @ TCS Yantra Park, Thane**

Building on belief





Long Horn Beetle

Female lays egg on bark/in crevices/ around wounds

The young larvae quickly tunnel beneath the bark

They feed on the bark, phloem, or xylem tissue

making it harder for the trees to transport materials

Leave frass (a sawdust-like waste) around the bases of tree

Leaf discoloration

Branch die back

Recovery from infestation very slow

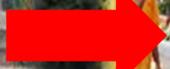
Death of the tree



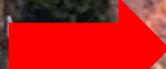
Treatment during 2012 & 2013



Infested Tree trunk



Scratching of Tree trunk



Larva in Heartwood



> 200 Larvae extracted



Pest control for termites



Tree Basin treatment



Treated Trunk



Trunk covered with net

Caring & monitoring over decade results in successful survival of Baobab Tree



Recovery of Heartwood



Fully Recovered Baobab Tree



Mass Budding & Flowering of Baobab Tree

Tangible & Intangible benefits of the Project

Building on belief

Tangible

- NA . Not as such, however appreciation by Clients/Visitors /Guests/Associates is value add to the business .
- Further those initiatives have helped TSC build a reputation and demonstrate its commitment towards protection of Urban biodiversity

Intangible

- **People & Society** : Conservation & creation of habitat, successful release of wildlife species/ IUCN category species of flora & fauna increases urban biodiversity & as well as strengthen ecological services which benefits to people & society
- In-situ conservation also leads to conservation of habitat for several life forms in ecosystem
- **Moral & Motivation** : Increase in biodiversity increase aesthetic environment increases moral value & motivate for environmental conservation
- **Skill Upgradation** : Skill development for contract staff for urban wildlife protection / conservation of Baobab Tree
- **Attitude Shift / development** : Yes Biodiversity conservation need efforts towards change in attitude at all levels within organization



Visit by TATA Sustainability Group

Replication Potential

- **Step Initiated**
- Creating awareness about significance of conservation of urban wildlife program & protection of Baobab Tree
- **Achievement Sharing**
- Conducting awareness & site visits for employees, Customers, Guests & visitors
- **Other Knowledge Sharing Platforms**
- Presentations to external forums
Conferences Symposiums & Awards etc.



Site Visit by TCS associates



Visit by Chairman Kerala State Biodiversity Board



Visit by Swatch Bharat Survekshan Team
Govt of India

Challenges Faced

Technical

- Providing protection to wildlife within campus till forest team reaches: Training
- Getting expertise vendor for carrying out wood borers treatment : Help for Forest Dept.

Administrative

- Implementing wildlife Rescue & Release program: Training to Admin staff
- Successful Baobab Tree Treatment : Vendor selection

Maintenance Related

- Maintenance of wild habitats : Admin training
- Maintaining Baobab Tree Health & no further Wood borers infestation :Tree trunk covered with green net





Green Crest Award 2022 under "Diamond" category by Green Maple foundation, Lucknow



TCS -Kochi received "Kerala State Biodiversity Award 2022 under category "Private Sector"

International Standards

- Convention on Biological Diversity
- United Nation Sustainability Development Goals
- Business Responsibility and Sustainability Reporting, Global Reporting Initiatives
- International Union for Conservation of Nature

National Standards

- India's National Biodiversity Action Plan
- State Level Biodiversity Action Plan



CII -GBC National Award for Environmental Best Practices 2021



TCS-Yantra Park received "Environment Excellence Award 2020 by Indian Chamber of Commerce, Kolkata

Learnings

- Urban wildlife & In-situ conservation is challenging in terms of site /species specific conditions
- Changes in landscape design is an important issue for accommodating conservation program
- Identification of various internal & external stakeholders, their role & involvement in conservation program
- Conducting training & awareness program for stakeholders to achieve desired output of conservation program
- Competency building & skill enhancement of stakeholders is essential for ensuring the sustainability of project
- Continuous monitoring & measurement of different aspects of projects i.e. Habitat status/appearance/disappearance of species etc.
- Increase in Urban biodiversity ensured to strengthen ecosystem services
- Conducting site visits of project with Senior Management/Guest/Visitors/Associates etc.





**TCS holistic approach towards
Sustainability & Coexistence**



Building on belief

