

In-situ Conservation of Birds in Urban Ecosystem : Bird Habitat Enhancement Program @ TCS

Sector : IT Industry

Category : Biodiversity Management

Presenter

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Senior Consultant

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S.No	Name of Facility	Location	Total Area(acres)
1	Adibatata	Hyderabad	78.45
2	Banyan park	Mumbai	22.27
3	DeccanPark	Hyderabad	11.4
4	Garima Park	Gandhinagar	25.5
5	Gitanjali Park	Kolkata	40.0
6	Indore	Indore	100
7	Kalinga Park	Bhubaneswar	44.5
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	48.0
15	Think campus	Bengaluru	10.0
16	Yantra Park	Thane	13.5





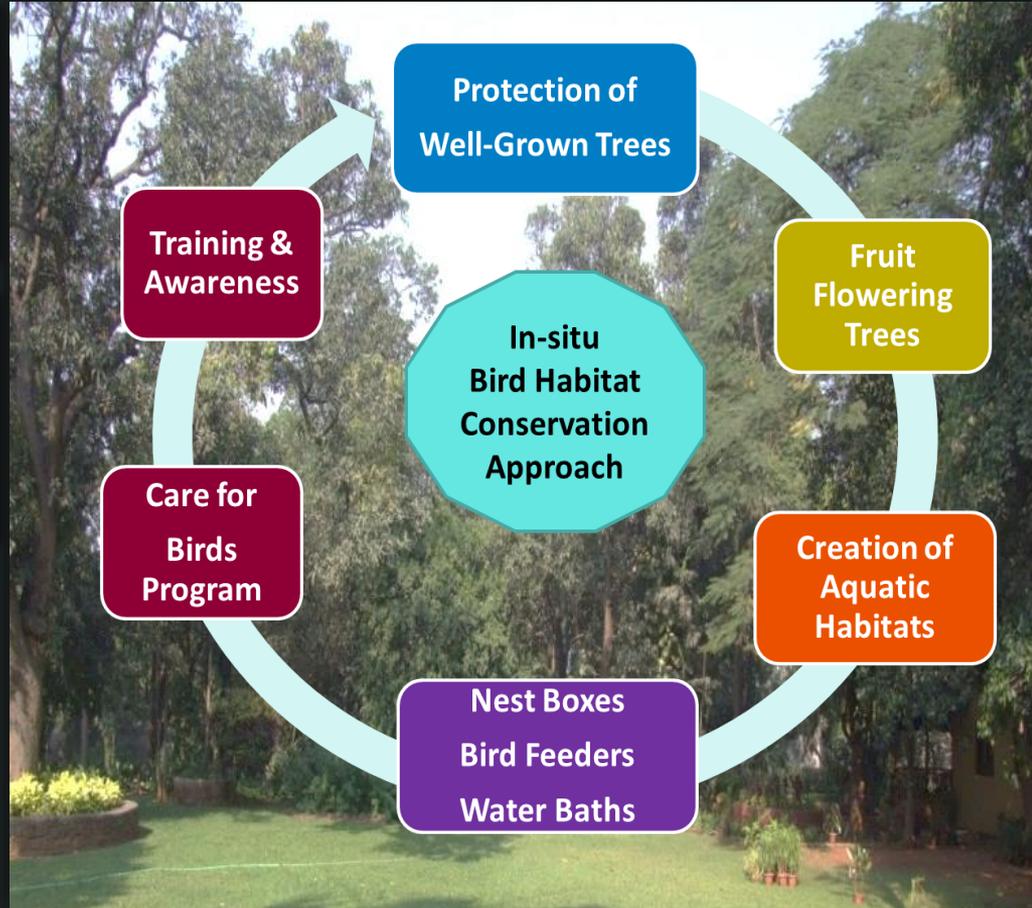
Rain Water Harvesting Lake



Provision of Reflecting Pool,



Water Tank /Fountain





Increased
Urbanization

Change in
Landscape
Design

Bird Friendly
Landscape
Design

Trigger
of
Project

Loss of
Habitat

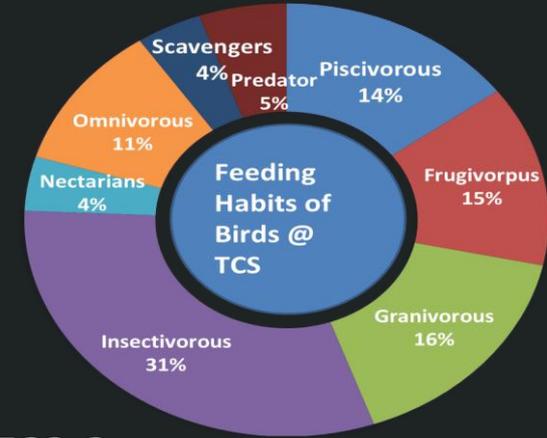
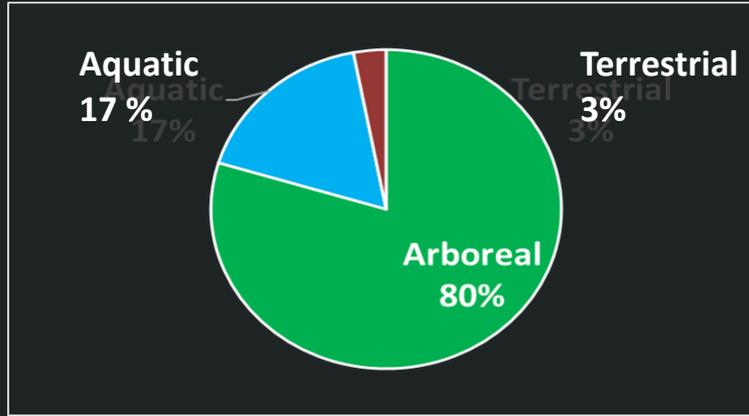
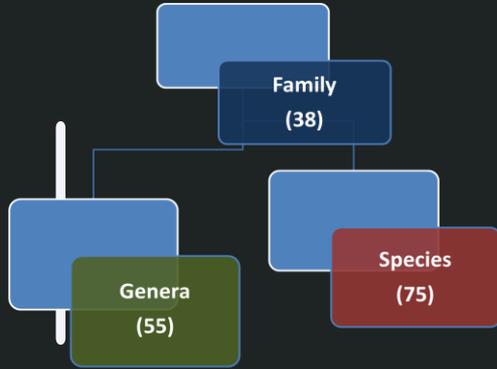
Hunting
Poaching
Trade

Use of
Insecticide
Pesticides

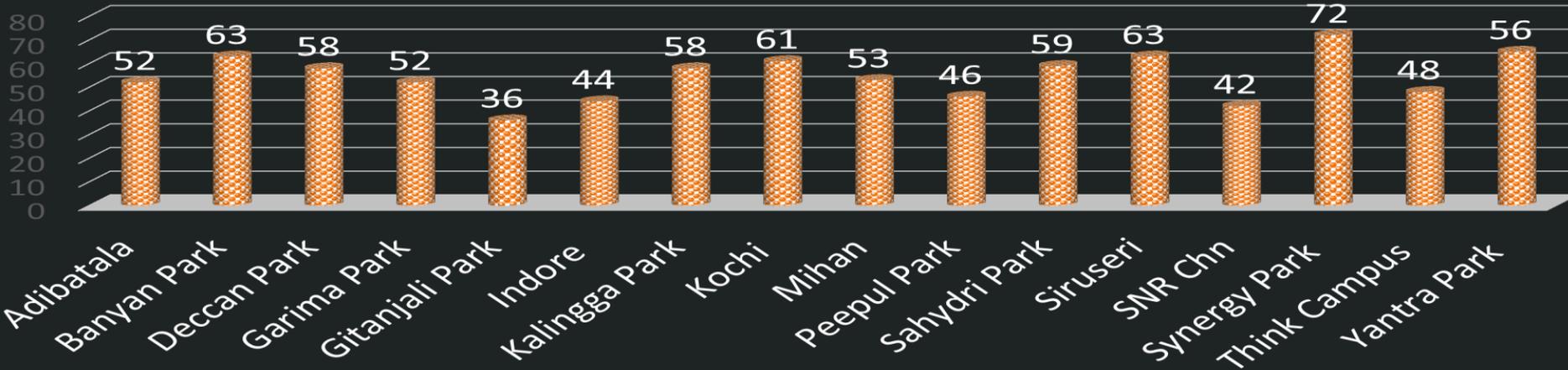
Uniqueness of the Project

Habitat Types , Composition & Feeding Habits of Birds

Building on belief



Variation in Number of Bird Species @TCS Campuses



Uniqueness of the Project :

Care for Injured Birds & Awareness Program

Building on belief



Care for Injured Birds
Provision of Stress Release
Drugs
Provision of Rescue Shelter
provision for Cage, food
water, medicines,
Provision for hospitalization



Site Visit for associates /
Visitors /Guests



Participation in TMC Public
Awareness Program

Nature Curiosity Context 2020 TATA Sustainability Month



What is the name of this bird :
This is the picture of Pariha Kite
Debkalpa Bhattacharya , Kolkata



whats the name of this bird? T
This is **Skylark bird** (Alauda arvensis)
is a small passerine bird species
Neeta Swarnkaar
Pune Sahyadri Park

List of Challenges Face & Brief on Countering



Challenges Faces & Overcome



- **Technical**
- Change in landscape design @ TCS campuses
- **Administrative** -
- Discussion & participation with architect & landscape planner. Site selection, Species recommendation i.e. butterfly host plants in designing of landscape
- **Maintenance**
- Training & Awareness to contractors /associates
- Continues monitoring of Nest Boxes, Feeders & Water Baths
- No use of insecticides/Pesticides during breeding season
- **Overcome issue** with integrating Bird Habitat Enhancement Program to landscape design of TCS Green Building

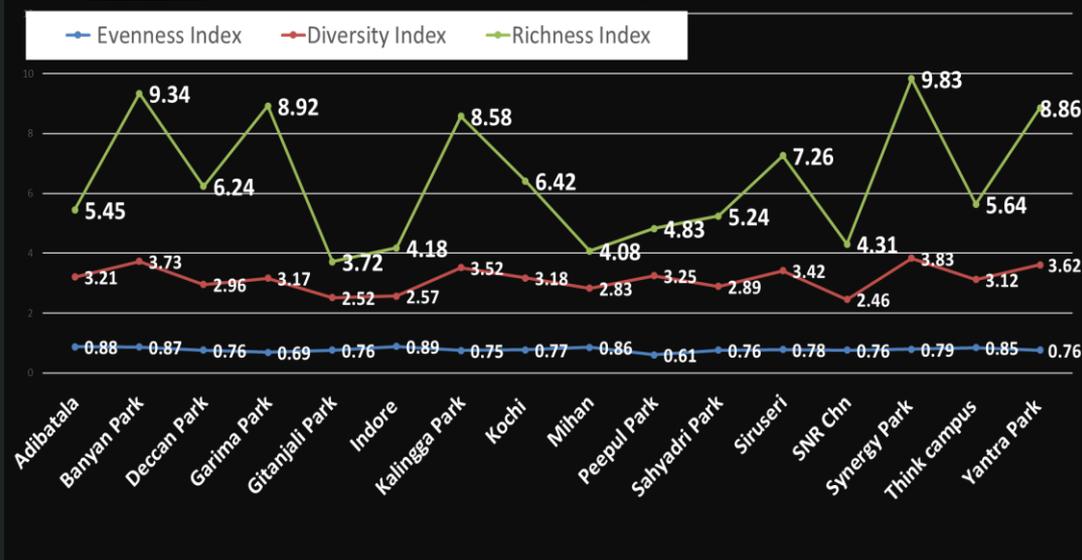
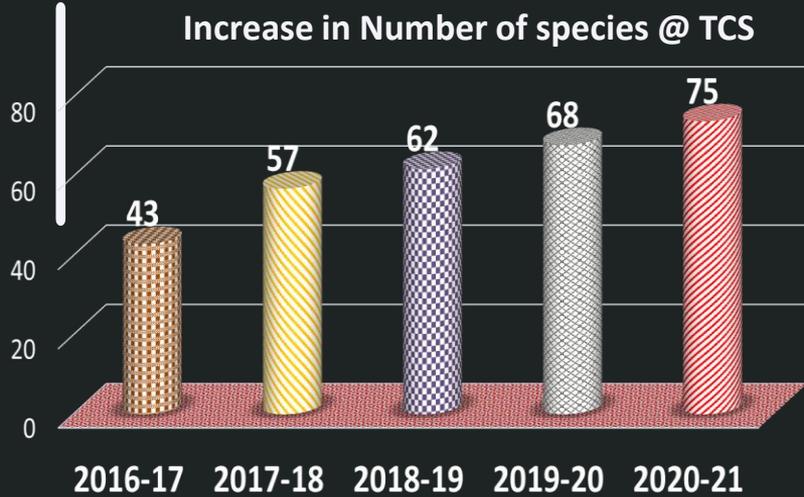


Tangible Benefits of Projects : Increase in Number of Species & Diversity



Building on belief

Increase in Number of species @ TCS



Tangible Benefits : Birds are Back to Ecosystem

100% Occupancy of Nest Boxes & Uses of Water Baths/Feeders

Building on belief



Tangible Benefits of the Project

Presence of IUCN Red Listed & Migratory Birds

Building on belief



Black-headed ibis (Thre)

Pseudibis papillosa



Psilopogon viridis (End)

White Cheeked Barbet



Peacock (EN)

Pavo cristatus



Sarus Crane (Vul)

Antigone antigone



White Eye

Zosterops palpebrosa



Rosy Pastor

Sturnus roses



Large Pied Wagtail

Motacilla maderaspatensis

Intangible Benefits of the Project

Building on belief



Intangible

- **People & Society** : Increase in Bird species abundance & diversity /endangered of species scared grove in fragmented Urban Landscape.
- In-situ conservation also lead to conservation of habitat for several life forms in ecosystem
- **Moral & Motivation** : Increase in aesthetic environment by adding colors to wilderness & source of environmental education
- **Skill Upgradation** : Skill development for contract staff for creation of nest boxes for birds /conservation
- **Attitude Shift/ Development** : Change in attitude of senior management/associates towards birds due to BHEP



Replication potential of project within group

Building on belief



Visit by TATA Sustainability Group

Replication
Potential



Visit by Chairman Kerala State Biodiversity Board

- **Step Initiated**
- Creating awareness about significance of Birds i.e. Bird Habitat Enhancement Program
- **Achievement Sharing**
- Conducting awareness presentation, site visits (TATA Sustainability Group/ KSBB)
- **Other Knowledge Sharing Platforms**
- Conferences, Symposium (Maharashtra /Kerala State Biodiversity Boards) Awards etc



Visit by Swatch Bharat Survekshan Team
Govt of India



Achieving International /National Benchmark /Standards/ Awards

International Standards

- Convention on Biological Diversity
- United Nation Sustainability Development Goals (SDC No -15, SDG-13, SDG -3)
- International Union for Conservation of Nature



**Indian Chamber of Commerce
Environment Excellence
Award 2020**

National Standards

- India's National Biodiversity Targets (Sustainable Landscape, Awareness, Genetic Diversity Ecosystem Services)
- National Biodiversity Action Plan
- State Level Biodiversity Action Plan



**Most Useful Environmental
Project Award 2020
CII - EBP Award**

**CII (WR) SHE Excellence
& Innovation Award 2020**



**BCCI Bombay Chamber
Civic Award 2019**

Learnings

- 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 et
- Increase in biodiversity ensured to strengthen ecosystem services



Thank You

ॐ सह नावतु ।
सह नौ भुनक्तु ।
सह वीर्यं करवावहै ।

सर्वस्वि नावधीतमस्तु मा विद्विषातु ।

TCS holistic approach towards
sustainability & Coexistence