



ECOGRAM[®]

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Clean village, healthy future

Tarahunise Lake Project Y3 (July 2024- March 25) Annual Report

Created by TAICT.ORG

TARAHUNISE LAKE

AREA: APPROX 35 ACRES

DEPTH: 6 FEET

VOLUME: 275950 CUBIC METER

UPSTREAM: WATER PUMPED FROM BAGALUR LAKE

DOWNSTREAM: THIMMASANDRA LAKE

As part of the HN Valley project by the Minor Irrigation Department treated wastewater is being pumped into 124 lakes in Bangalore Urban, Bangalore Rural and Chikkaballapur Districts. Tarahunise lake is a part of this project in Bangalore Urban district. The first lake to receive this water is Bagalur lake. From here wastewater is being pumped into Tarahunise, Thimmasandra, Singanayakanahalli and Harohalli Lakes. Pumping treated wastewater into these lakes has seen a significant rise in the water levels in shallow aquifer (open wells) and also in the borewells. The Minor Irrigation Department (MID) has fenced and desilted the lake, created a bund around the lake by using the silt.



VISION

Tarahunise lake is the first in the series of lakes receiving treated water from Hebbal-Nagawara sewage treatment plants and as the volumes of treated water increase over the years, there is a possibility of reduction of quality in the treated water. Therefore we see Tarahunise lake playing an important role in further treating this waters so that downstream lakes remain protected. For the lake to be able to perform this function, over long term focus for this lake should be conservation of biodiversity and a robust wetland to be established. We should be able to create a quality neighbourhood community space for the residents of the village.



ACTION ITEMS COMPLETED IN YEAR 3

This year the focus was on maintaining what we have already built and to create a detailed project report for creating a wetland.

- **Bund Strengthening - 50 meters and Wetland**
 - Reinforced with Stone pitching
 - Developed a Detailed project report for wetland construction and bund strengthening.
 - Made 21 Floating island with help from Volunteers of WeWork and other companies



ACTION ITEMS COMPLETED IN YEAR 3



- **Community Spaces**

- Constructed a paved Medicinal herb garden
- Constructed 2 places for community to relax
- Installed Government Boards at Entry



ACTION ITEMS COMPLETED IN YEAR 3



- **Strengthening Lake Maintenance System**
 - Set up SOP's lake maintenance team for regular monitoring, clean ups, deweeding and watering of saplings
 - Bi-annual water testing
 - Community integration with workshops and lake walks



ACTION ITEMS COMPLETED IN YEAR 3

- **Biodiversity Enhancement**
 - Planted 40 species saplings
 - Controlled fishing at the lake and ensured that fishing is carried in a more sustainable way





BIO DIVERSITY THROUGH THE YEARS

Comparing biodiversity in a particular area over the years is a complex task basically due to nature of data and also due to several factors like lack of baseline data, seasonal and temporal variability, taxonomic issues and observer bias that can introduce inconsistencies or limit the availability of reliable data. However we have made an honest attempt in the past 2 years and the methodology will evolve in the coming years.

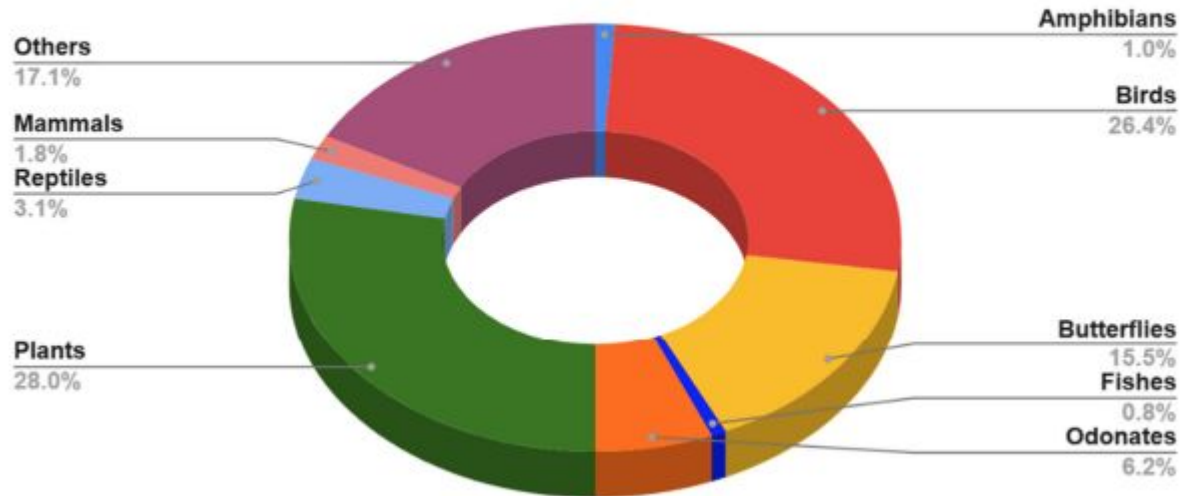
	NO OF MONTHS	SHANNON INDEX	SIMPSON INDEX	AVIAN SHANNON INDEX	AVIAN SIMPSON INDEX	TOTAL NO OF SPECIES
YEAR 2023-24	3	4.921	0.009768	4.02	0.98	232
YEAR 2024-25	12	4.98	0.00952	4.04	0.975	386

- 1.) The elevated shannon index demonstrates a high level of diversity, reflecting a relatively even distribution of species.
- 2.) This low Simpson index signals a lack of dominance by any single species, indicating a balanced distribution of species within the ecosystem. The absence of a singularly dominant species contributes significantly to the overall stability of the ecosystem.

BIO DIVERSITY 2024-25

Biodiversity Composition at Tarahunise Lake

April 2024 to March 2025





IMPACT

- Social Impact
 - Built a sense of pride and ownership amongst the villagers especially the women and children in the gram panchayat that has over 10,000 residents.
 - Fishermen sensitised to the biodiversity of the lake
 - Testimonials -
<https://www.youtube.com/playlist?list=PLrgMHIOPcA7xvOSQv5eXyO4JboGWS9ujG>
- Ecological Impact
 - Prevented bund breaching and flooding of Tarahunise village
 - Increased biodiversity
 - Maintained lake cleanliness

THANK YOU



THE ANONYMOUS INDIAN CHARITABLE TRUST