

Reimagining Urban Water Bodies

Rejuvenating Mahadevapura Lake with Treated Wastewater

— Ganapathy P.G



Urban water bodies are a neglected asset today



1

Water bodies suffer from multiple onslaughts

2

We have lost our connect with water bodies

3

Centralized models of public water provisioning ignore local surface water resources



60 % of urban India's sewage enters water bodies untreated

Rejuvenating Mahadevpura Lake with Treated Wastewater



Solving the pollution problem while also augmenting local water resource

Objectives:

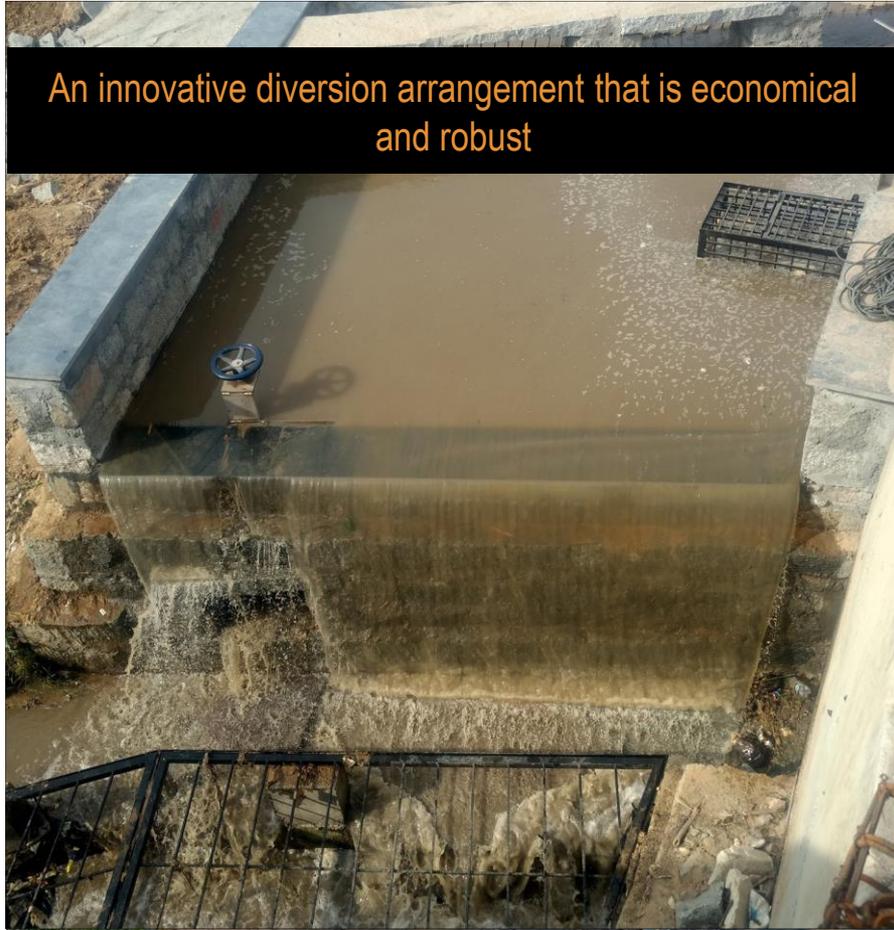
- Treat **1MLD** of wastewater inflow and discharge the treated water into the lake
- Leverage lake for water storage
- Aid groundwater recharge
- Enhance micro climate benefits in the area
- Improve urban aesthetics



Using a nature based solution to economically treat water to a desirable standard

Successful integration of modules in a new, dynamic context

An innovative diversion arrangement that is economical and robust



Intake
Structure



Solid Waste
Screen



Diversion
Channel



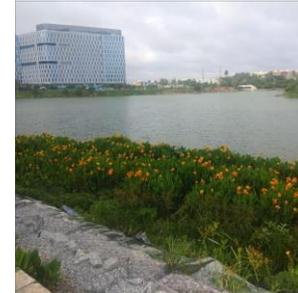
Sedimentation
Tank



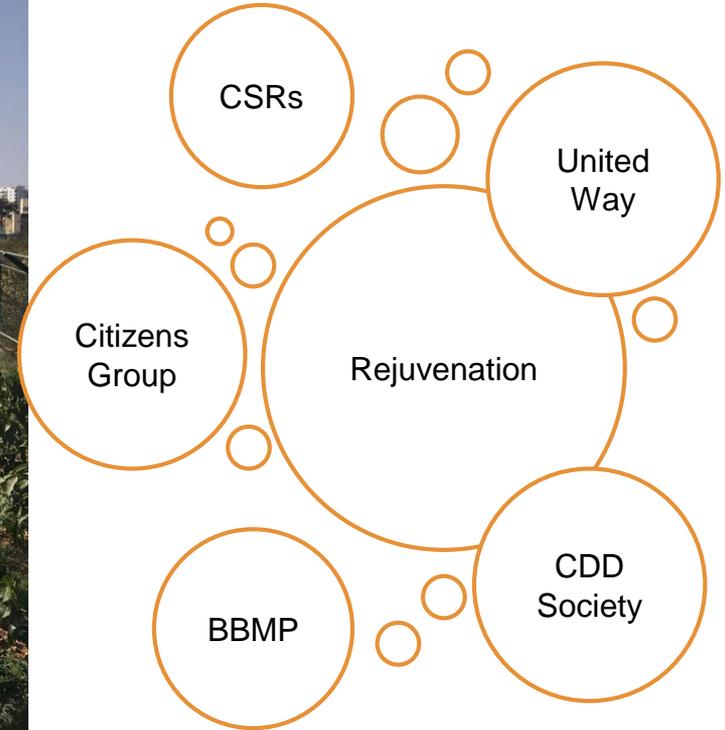
DEWATS



Gabions +
Floating
Wetlands



Successful collaboration between Govt., Corporates, Citizens



Summarizing achievements



1MLD of wastewater treated
@ Rs.1.25 per KL (Opex)

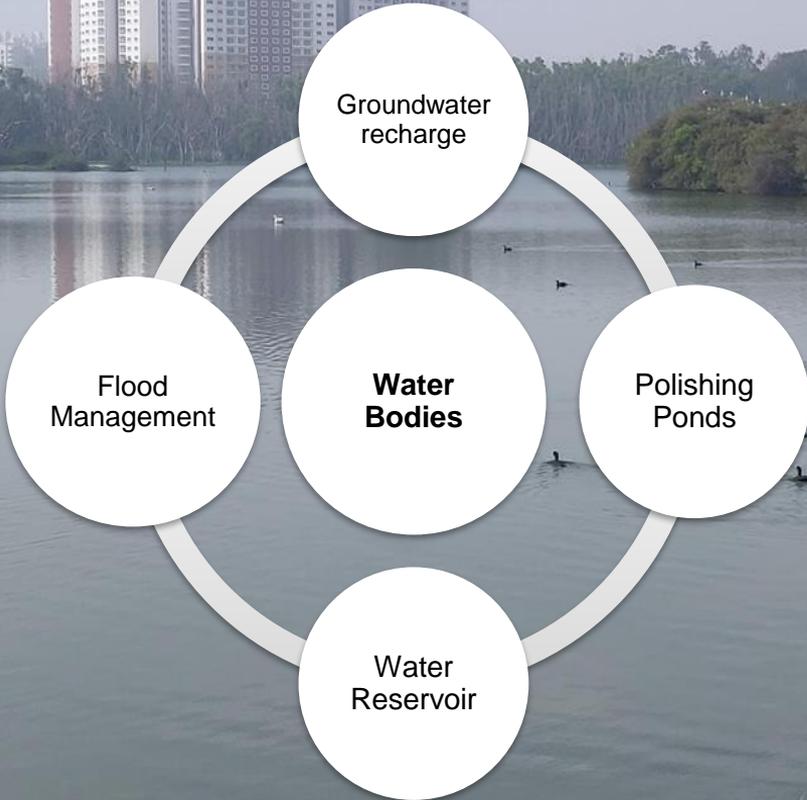
Aided by Nature Based
Solutions

Intake arrangements
functioning robustly after two
monsoons

Demonstrated successful
collaboration between CSR,
Govt and Citizens

Simple systems that can be
managed by community

The way forward



Imagining Water Body Rejuvenation as a
pathway to
Integrated Urban Water Management

Partner with us



Wastewater Treatment & Reuse



Waterbody Rejuvenation



Integrated Urban Water
Management

Nature based solutions for Water and Sanitation



Consortium for
DEWATS
Dissemination
Society

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