

As global temperatures continue to rise and have a cascading impact on lives and living systems, urban areas that have concentrations of population and drive economic activity will be the worst affected. In urban areas there is a growing challenge of precious water bodies turning into wastelands – a place where the community around it use it to dump household waste, construction debris, or using them to build illegal structures.

Saving our cities

The SEEDS Urban Resilience, Governance and Enablement (SURGE) Initiative is being carried out in the Delhi National Capital Region and Bengaluru. Protecting and rejuvenating lakes are solutions to build sustainable environments and resilient societies. Waterbodies and wetlands are sponges that can check urban flooding. They are also precious carbon sinks that support communities around them. Water bodies and wetlands thrive when biodiversity, water quality, and ecosystem services are maintained. Essential for the environment and when healthy, these water bodies are beneficial for local communities too!



Drone capture of the Wazirabad Lake post restoration and intervention.



Jharsa Lake, Gurugram; After restoration

Once an ailing lake in in the Saraswati Kunj. Haryana, the **Wazirabad Lake** in Gurugram has now become an active catchment for run-offs from the Aravalli range.

The **Jharsa Pond** also in Gurugram has become a site for recreation. From a encroached piece of land, today it is filled with activity.

Engineering Measures and Implementation Strategies for Restoration

- *Levelling, Filling, and Dressing the Ground*
- *Phytoremediation*
- *Erosion Control*
- *Stormwater Management*
- *Setting up a Track for Cycling and Jogging*
- *Public Awareness and Education*

Engineering Measures and Implementation Strategies for Restoration

- *Water Body Rejuvenation*
- *Sediment Removal*
- *Hydraulic Excavation*
- *Bank Stabilisation*
- *Greenway Development and Chain-link Fencing*
- *Bioremediation*
- *Vegetative Buffers*

Quantification of impacts

- *Biodiversity Enhancement*
- *Habitat Quality*
- *Enhanced Recreational Activities*
- *Improved Physical and Mental Well-being*
- *Economic Impact*



Quantification of impacts

- *Improved Water Quality*
- *Increased Biodiversity*
- *Flood Mitigation*
- *Community Well-being*
- *Urban Heat Reduction*



About SEEDS

Born in 1994, **SEEDS** (Sustainable Environment and Ecological Development Society) has dedicated all actions towards protecting the lives and livelihoods of people in the 225 vulnerable districts of India by partnering with them in building resilience to disasters and climate change impacts.

To know more, Visit, www.seedsindia.org