



WATERBODY IN-SITU ECOLOGICAL REJUVENATION



PROBLEMS ADDRESSED

- Water Quality:** Removal of nutrients from wastewater
- Biodiversity Enhancement:** Provide habitat for native flora and fauna
- Reduced freshwater consumption :** Storage of stream water for planation
- Groundwater Recharge:** Replenishing the recharge zones
- Carbon Sequestration:** Through increased flora and phytoremediation
- Community Engagement:** Awareness amongst stakeholders
- Aesthetic Improvement:** Create visually appealing environments



SOCIAL BENEFITS

- Community empowerment:** Builds local ownership and responsibility
- Public health:** Reduces waterborne diseases.
- Enhanced life quality:** Recreational spaces promote mental and physical health.
- Capacity building:** Awareness on conservation and ecosystems
- Reduced Littering:** Due to aesthetics
- Social Cohesion:** community interactions



ECONOMIC BENEFITS

- Cost-effective solution:** Low CAPEX and OPEX and use of local material
- Reduced infrastructure costs:** Efficient decentralized treatment systems
- Employment:** Direct and indirect opportunities
- Increased property values:** Enhanced aesthetics attract investment
- Healthcare savings:** Reduced water-borne diseases
- Carbon credits:** Monetizing environmental benefits

BEFORE



AFTER



ENVIRONMENTAL BENEFITS

- Restore ecological functions
- Biodiversity improvement
- Effective treated water reuse
- Minimal energy use
- No chemicals needed
- Improved water quality
- Groundwater recharge
- Locally sourced material
- Reduced freshwater demand

BEFORE



AFTER

