

REJUVENATION OF PAVI SADAKPUR WATER BODY, LONI GHAZIABAD, UTTAR PRADESH

INTRODUCTION

The **Pavi Sadakpur Water Body Rejuvenation Project** under **AMRUT 2.0** restores a heavily polluted pond in **Loni, Ghaziabad**, using **NbS** and **Cownomics Technology**. The pond faced severe contamination from waste and 5–7 MLD of untreated sewage.

The project is being monitored by IIT Delhi, which has been conducting the Environmental Impact Assessment (EIA) since the project's inception.



Launched in March 2024, the project uses **Cownomics® Technology**, a proprietary **NbS** that restores water bodies & wet lands to their natural native state. It achieves **zero discharge** and a **zero-carbon footprint** without mechanical, chemical, or biological interventions, and operates **IN-SITU** without any machinery.

The proprietary concentrate of Cownomics Technology is amalgamated with clean water and is dozed in the waterbody regularly

Treatment Process (March–April 2024)

- Survey & Clean: Waterbody surveyed and cleaned.
- Embankment Strengthening: Strengthened with natural soil.



12 MONTH WATER BODY REJUVENATION PROCESS



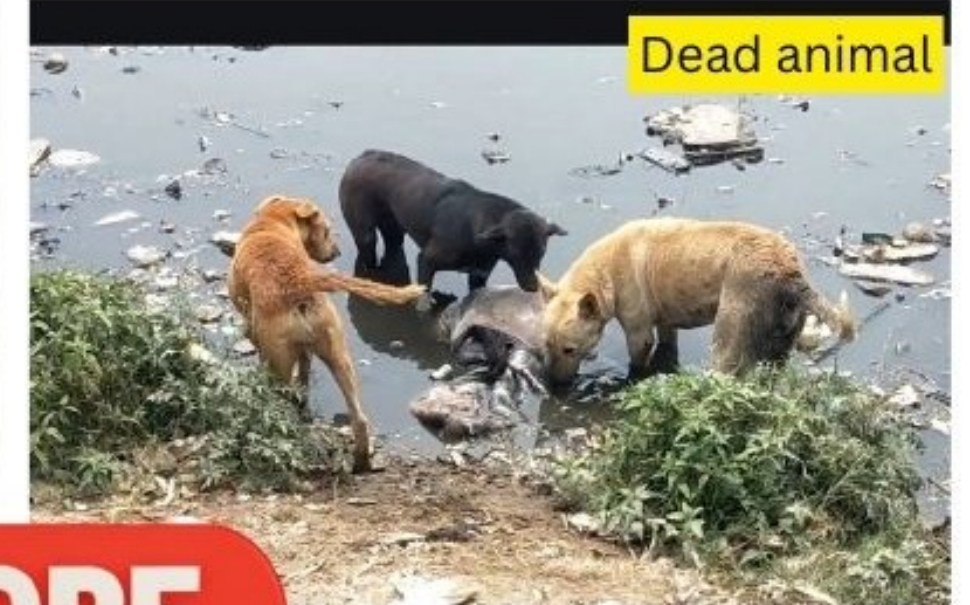
- Foul odour & mosquitoes eliminated
- Reduced TDS, TSS, COD & BOD
- Improved water clarity, viscosity & movement



- Eco-dredging to remove sludge
- Increased water holding capacity & DO levels
- Prevented flooding, benefiting locals



- Metabolic calibration for pollution digestion
- Fine-tuned capacity for daily contamination
- Water body becomes perennial & fully restored



BEFORE

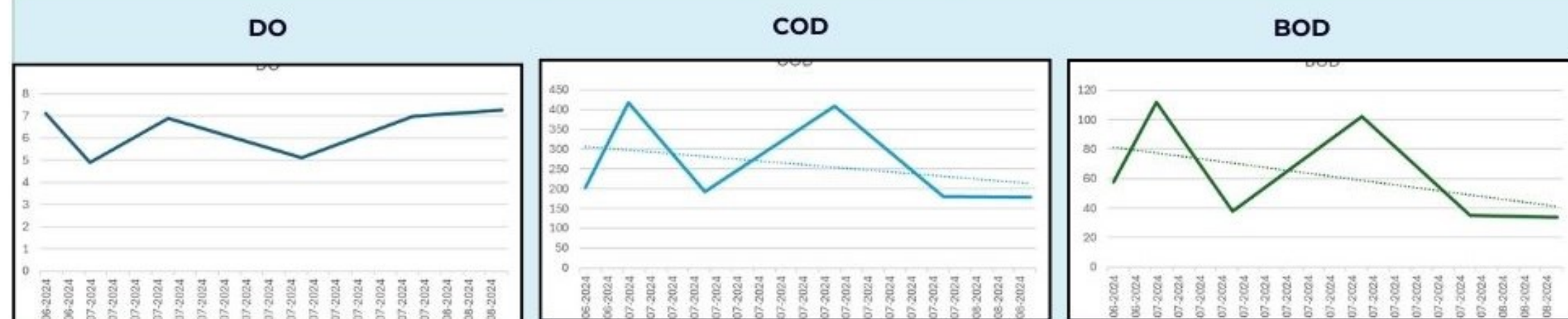


Documentary on Pre-Intervention Of Pavi Sadakpur Waterbody

[SCAN TO WATCH]

Documentary on Post-Intervention Of Pavi Sadakpur Waterbody

PROGRESS CHART



Note The treatment is 100% INSITU therefore Due to a surge in the inflow of contaminants, the fluctuations appear naturally*

Another distinct feature of the project is the Recording and Documentation of key parameters of air, water and soil on EVERY DAY basis such as :

Water : Fertility, PH, H2 - Ppb, ORP -Mv, Res, us/cm, TDS -ppm, Salt %, Salt sg.
Soil : Moisture, Light , pH
Air : Temperature, Humidity, Air pollution level, PM2.5 (AQI), HCHO, TVOC

SDG & COMMUNITY IMPACT

Defining Feature: Community-centric approach

Local residents actively involved in cleanup efforts

Door-to-door promotion for maintaining cleanliness of the pond

Organization of local events and plays to convey impactful messages about the benefits of the project

Fostered a sense of ownership among residents and raised awareness about sustainable water management practices

Survey & Impact Assessment:

Surveys conducted by private and semi-government institutions (e.g., IIT Delhi, Giri Institute of Development, Lucknow)

Data collected to understand the transformation's impact on people's lives

Data serves as evidence of the success of the technology and its positive influence on the community

