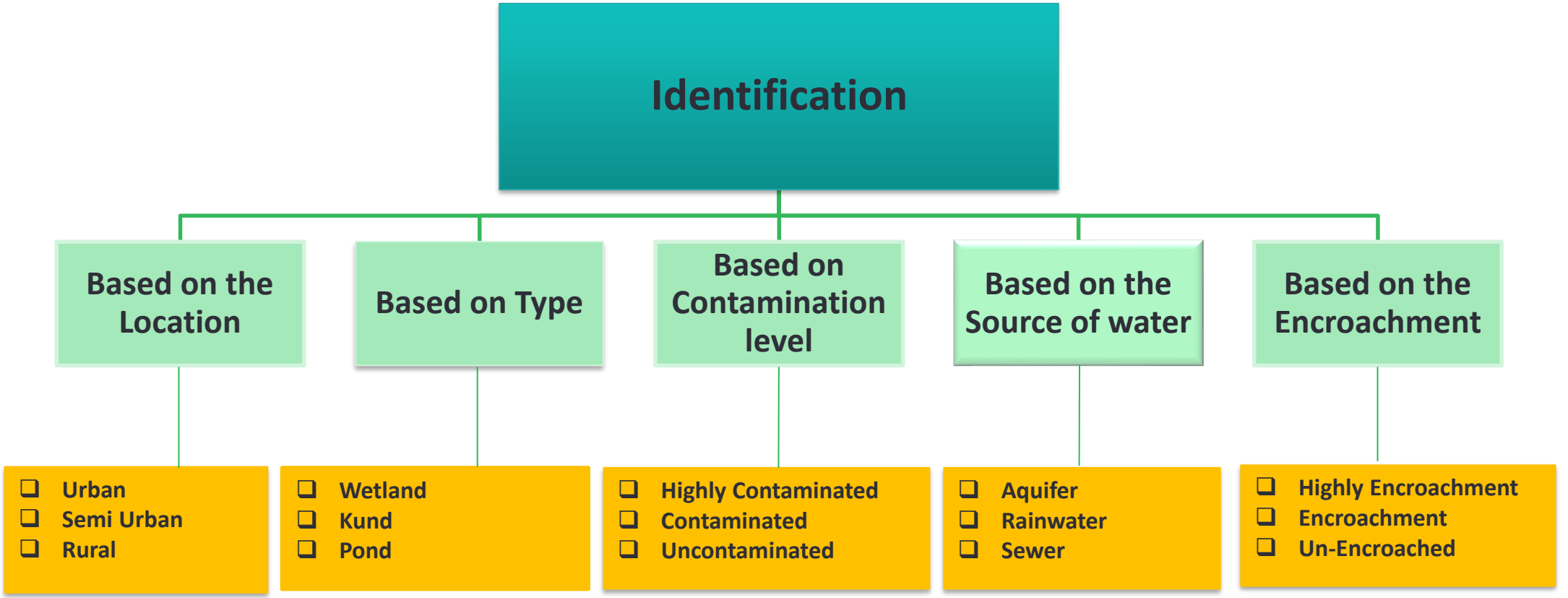
Conservation, Augmentation & Preservation of Water Bodies in Ayodhya

Water bodies management

108 *water bodies have been identified in Ayodhya for water rejuvenation.*



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Challenges

15-20ft of sludge in existing waterbodies

Waterbodies left unattended since years

Encroachment

Sites overflowing with waste specially Chappals

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Solutions implemented

- Natural sewage treatment system was adopted
- Separation of rainwater and sewerage by earthen bund to form treatment canal and the lagoons
- Trapping of large size waste like plastic bottles, theramocoal, household waste etc. via inlet chambers through bamboo frame
- Execution on the basis of earth work, minimal civil work and plantation required on ground along with Community Engagement
- Sedimentation & decomposition of sewage effluents while passing through one lagoon to another via hume pipes

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Outcomes of the project

Low Operational & Maintenance costs by avoiding concrete, steel etc.

No STP & FSTP, resulting in electricity saving in thye project

Ecological rejuvenation of lost biodiversity

Excavated soil used for Bund formation and avoided using foreign earth material in bund formation

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Ongoing Interventions and Progress achieved


LAAL DIGGI
(SANDHYA
SAROVAR)

Sandhya Sarovar (Laal Diggi)

BEFORE

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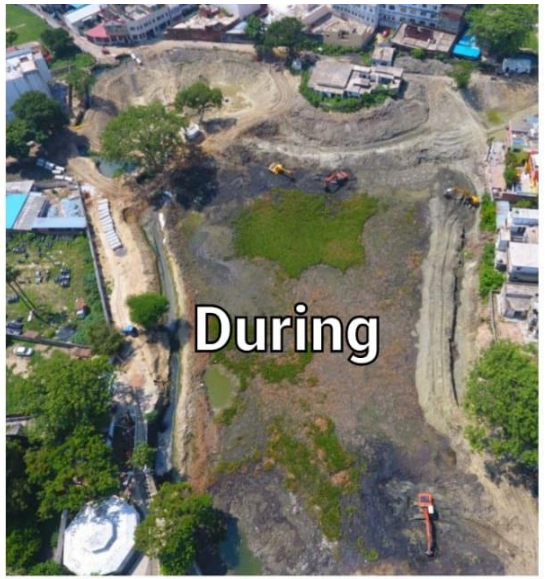
Sandhya Sarovar (Laal Diggi)

WORK DURING IMPLEMENTATION

अयोध्या विकास प्राधिकरण

Sandhya Sarovar (Laal Diggi)



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Sandhya Sarovar (Laal Diggi)

AFTER IMPLEMENTATION

अयोध्या विकास प्राधिकरण

Sandhya Sarovar (Laal Diggi)

ART WORK AFTER IMPLEMENTATION

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Agni Kund

BEFORE

AFTER

Case Study 2 : Samda Lake

Strategized Planning & Design

1

Desilting

Excavation and removal of sludge layer which was used for Bund formation

2

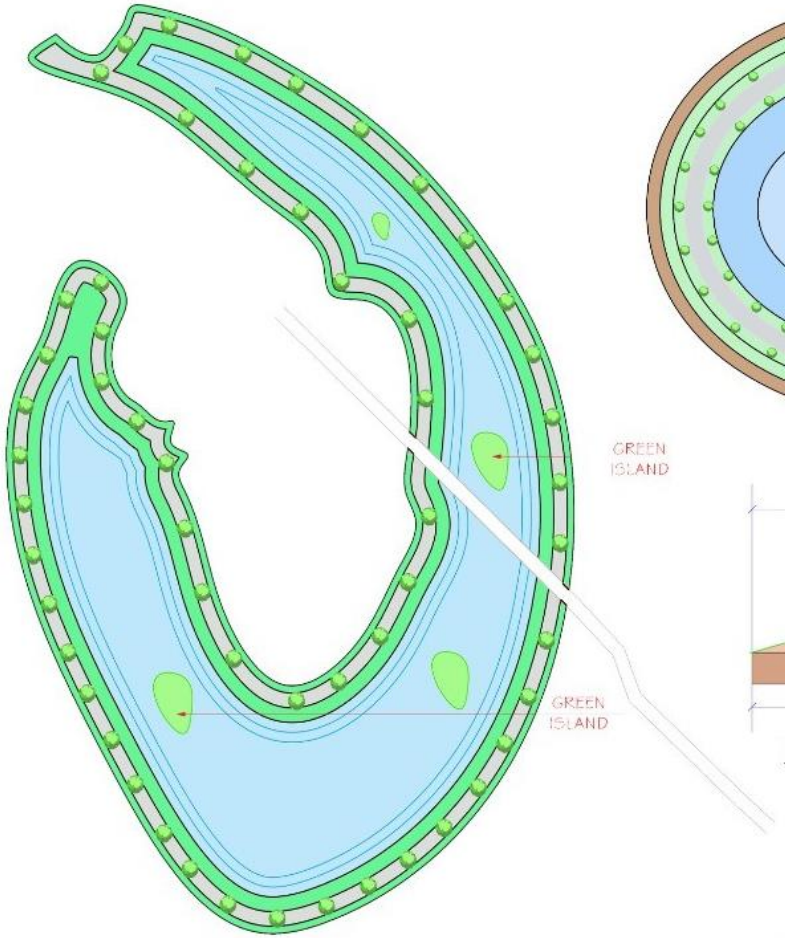
Bund Formation

Slope of 1:3 & walking pathway 4m wide with 2.50 m wide followed by trench/silt trap

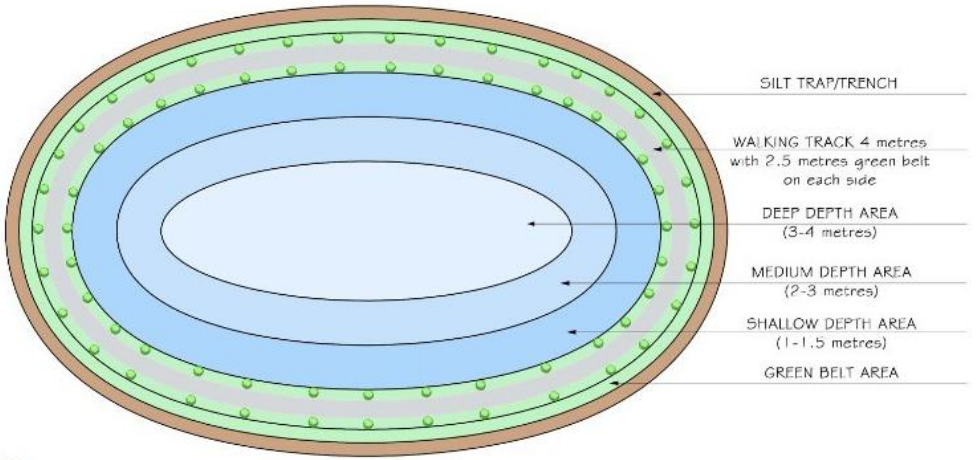
3

Plantation

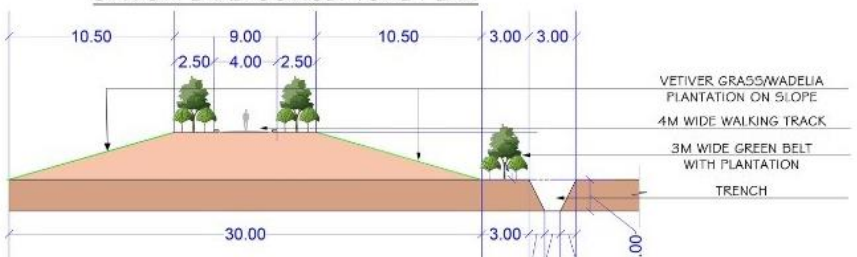
Green island creation, vetiver/aralia grass plantation along the slopes & islands



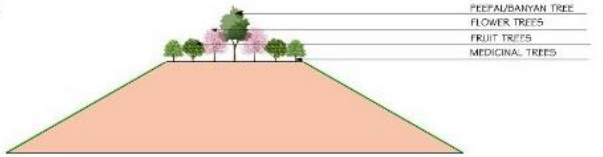
SAMDA LAKE CONCEPTUAL PLAN



SAMDA LAKE CONCEPTUAL PLAN



SCHEMATIC SECTIONAL ELEVATION



GREEN ISLAND PLANTATION SCHEME

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Case Study 2 : Samda Lake

Samda Lake in 2022

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Samda Lake

BEFORE

AFTER

Case Study 2 : Samda Lake

Case Study 3: Tilodaki Ganga

Tilodaki Ganga in 2022

अयोध्या विकास प्राधिकरण

Tilodaki Ganga

BEFORE

AFTER

Progress Achieved

Floating wetlands at Suryakund to absorb impurities and utilise in growth of plants

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Progress Achieved

COMMUNITY ENGAGEMENT

Sita Kund

Samda Lake

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Progress Achieved

BIODIVERSITY CONSERVATION

Turtles rescued from working sites and released in Suryakund & Sita Kund

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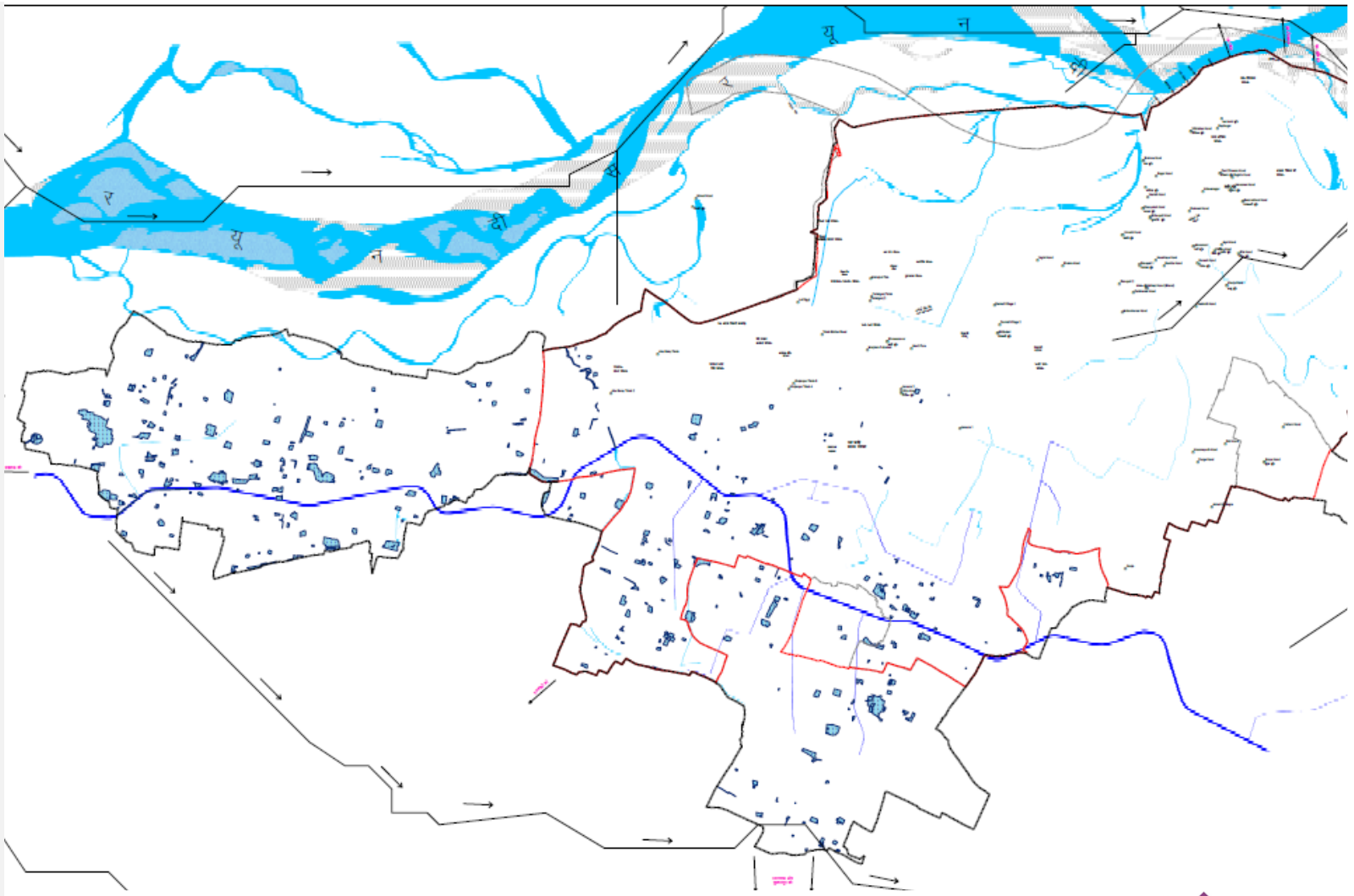
Progress Achieved

अयोध्या विकास प्राधिकरण

Other interventions on Blue infrastructure

- *Identification of blue infrastructure through GIS mapping – 200 water bodies*
- *Delineation of water flow routes through contour mapping*
- *6 m buffer(no development zone) provided around each water body*
- *Rejuvenation and mapping of existing drains(nalas)*
- *Treatment of water stagnated areas through pumping station scheme*
- *Development of land through land development mechanisms such as TDR and TPS in urban area*
- *Development of Urban Water Management Plan*
- *INR 200 crores allocated for development of blue infrastructure*



Ayodhya watershed management map

अयोध्या विकास प्राधिकरण

THANKS

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