

CSE IMPACT WORKSHOP *Alumni stories...*

KNOWLEDGE SHARING

BETWEEN

CSE & SPA, DELHI



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ASPECTS OF COLLABORATION

Collaboration of Center of Science with School of Planning and Architecture, New Delhi

In 2019 , Department of Landscape Architecture, SPA, New Delhi was invited to collaborate and share their Study on the Studio Project : Landscape Planning for Lake Conservation : A Case Study of Damdama Lake for the Urban Lake Management Workshop held at AAETI Nimli.

The Department presented their work for the subject which became the basis of Case Study for the Workshop.

6 students from 1st year MLA attended the 4 day workshop and learnt the aspects of Urban Lake Management.

LANDSCAPE PLANNING FOR LAKE CONSERVATION - A CASE OF DAMDAMA LAKE

STUDIO FRAMEWORK

DATA COLLECTION

Site Visits

Generating drawings of different physical aspects of site
Collection of the detail knowledge and history of all layers of study
PHYSICAL
SOCIAL
ECOLOGICAL
VISUAL

SITE ANALYSIS

Analysis of site based on the drawings generated
GEOLOGY AND GEOMORPHOLOGY
HYDROLOGY
TOPOGRAPHY AND SLOPE ANALYSIS
ACTIVITY
TRANSPORTATION
CULTURAL AND RELIGIOUS VALUES

SYNTHESIS

Identification of the issues and potential of the site

STRENGTH
WEAKNESS
OPPORTUNITY
THREAT

STRATEGIES AND MASTER PLAN POLICY

Action plan and strategies for the proposal.
Policies for tackling the major issues of the site.

VISION
GOAL
OBJECTIVE

DESIGN PROPOSAL

Detail design proposal for the project based on the analysis

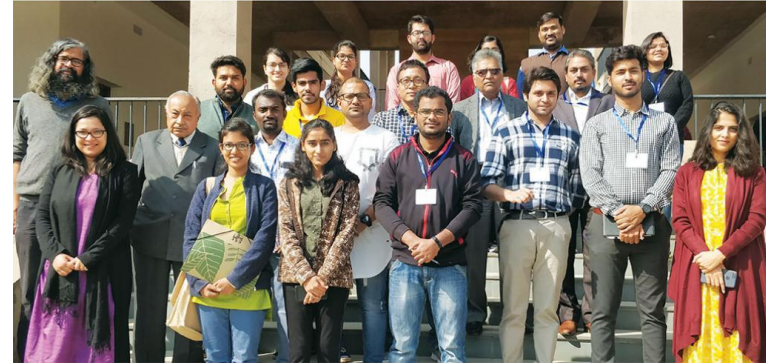


Centre for Science and Environment

Advanced Training on

Urban Lake Management, held at AAETI

19 to 22 February, 2019 • Anil Agarwal Environment Training Institute, Nimli, Rajasthan



Department of Landscape Architecture, SPA Delhi at the Urban Lake Management Workshop at AAETI, Nimli



View of Damdama lake, 2018. Source: Department of Landscape Architecture, SPA, New Delhi.

URBAN LAKE MANAGEMENT WORKSHOP, 2019

WORKSHOP FRAMEWORK

DATA COLLECTION

Literature study on the site and collecting associated data

STAKEHOLDERS

Visiting the local community and conducting survey to identify stakeholders

LOCAL COMMUNITY
STATE AUTHORITIES
LOCAL HOSPITALITY BUSINESSES

SITE VISIT

Understanding the scale of the site along with guides.

FINDING OUT ISSUES
GATHERING DATA

INTERACTION WITH OTHER PROFESSIONALS

Working in groups with a variety of people from different professions helps in exchange of knowledge.

3 groups working on same project with different lens

PEOPLE (Community)
PROFIT (Economic)
PLANET (Ecological)

STRATEGY PROPOSAL

Learning from different types of proposals

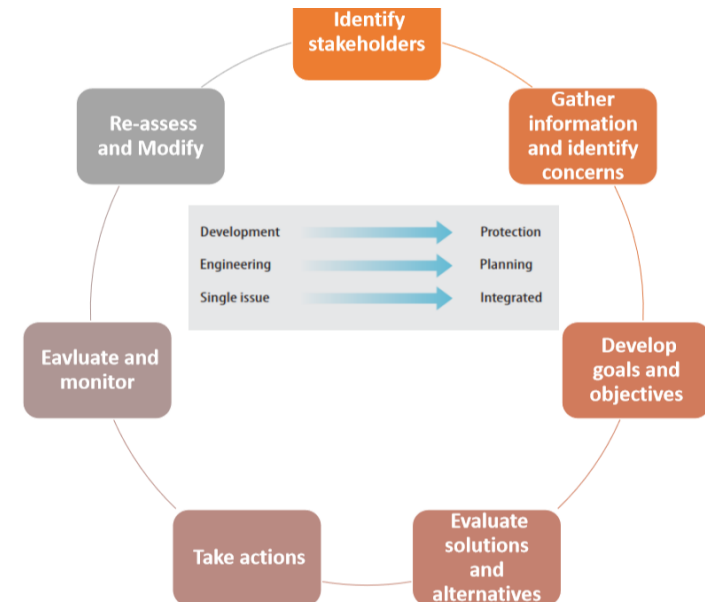
WORKSHOP LEARNINGS

1. Management Process and Practical Exposure.

2. Interaction with Professionals in Multidisciplinary fields.

3. Community Participation

4. In depth Understanding of Natural Systems.



Process of Management Plan



Day 1: Lectures during Workshop



Day 2 : Interaction with Stakeholders during Site Visits



Day 3: Development of Lake Management Plan



Day 4: Proposal Presentation

APPLICATION OF LEARNINGS

URBAN OPEN SPACE SYSTEMS - NAJAFGARH, DELHI

STUDIO FRAMEWORK

URBAN OPEN SPACE SYSTEMS - NAJAFGARH,

SITE VISITS

Study of the site done in groups of 5 By dividing the stretch in 4 parts.
Data collection about the immediate surrounding, authorities, physical condition, Edge condition of the stretch along the 50km of Najafgarh drain.

STUDY OF THE 50KM STRETCH

Analysis of different Physical and Social Layers of Site

REGIONAL STUDY

CITY STUDY

HISTORY AND CONTEXT

GEOLOGY AND GEOMORPHOLOGY

HYDROLOGY

TOPOGRAPHY

INFRASTRUCTURE

VEGETATION

VISUAL ANALYSIS

SOCIAL ANALYSIS

LITERATURE ANALYSIS

STUDY OF THE 5KM STRETCH

Detail study and development of the drawings of different layers of site.

DETAIL ANALYSIS

SYNTHESIS OF ALL SPACES ALONG THE 5KM STRETCH DOWNSTREAM

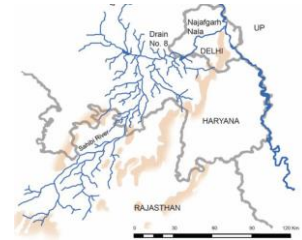
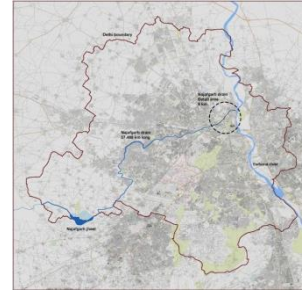
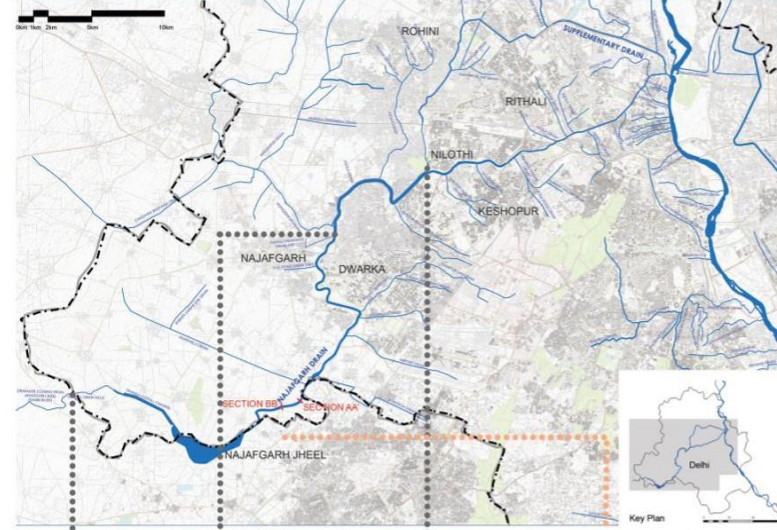
MASTERPLAN POLICY

Individual exercise of proposing large scale policies for 1.2km stretch after identifying the potential and issues especially regarding the water level

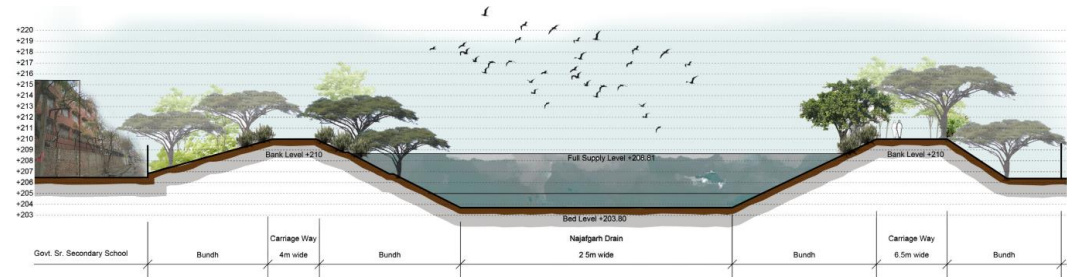
DETAIL DESIGN PROPOSAL

Detail design proposals of spaces along the stretch creating connected open spaces in the city as a whole

PLAN OF NAJAFGARH DRAIN IN DELHI



NAJAFGARH WATER CHANNEL



SECTION THROUGH WATERCHANNEL



View of Najafgarh Drain, 2019. Source: Department of Landscape Architecture, SPA, New Delhi

STAKE HOLDER INVOLVEMENT

STAKEHOLDER IDENTIFICATION

Identification of Stakeholders through Primary Research like Site Visits and Site Surveys and Secondary Research Methods.

UNDERSTANDING TYPOLOGY OF STAKEHOLDERS

1. Authorities associated with Water Channel
 - Flood and Irrigation Department
 - Water Board
 - Maintenance Workers
2. Community associated with Water Channel
 - Nearby Residents - MIG, LIG and EWS
 - Users of the Nearby Infrastructure
3. Institutions
 - Religious Institutions like Temples, Gurudwaras
 - Learning Institutions like Schools.

STAKEHOLDER INTERACTION

Site Visits, Social Surveys, Verbal Interaction

STAKEHOLDER INPUTS

Issues like Lack of Recreational spaces, Lack of Infrastructure, Unsafe Living Environment.

INTEGRATION IN DESIGN PROPOSAL

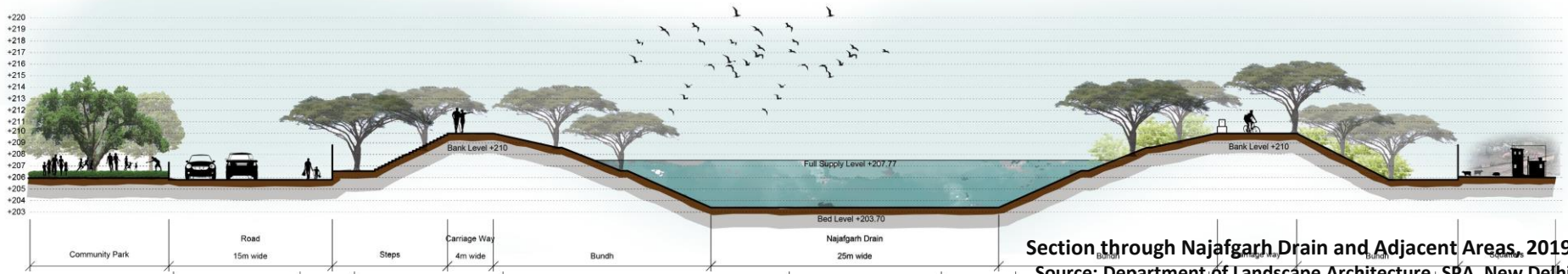
Childrens play and Recreational Spaces, Proper Infrastructure for safe living conditions.

USER ACTIVITY

Locals	
Young Adults	
MIG Residents	
PG Residents	
Parking	
College Students	
Young Adults	
Children (7 - 16 yrs)	
Senior Citizen	
Children	
Young Adults	Street Side Cricket Burning Effigies on Dushera
Economic Weaker Section	
Police Men	
All locals	Prayer, PHC, Primary School, Public Facilities



Site Visits and Stakeholder Interaction



INTEGRATED LEARNINGS FROM WORKSHOP

Inspirations from the training at AAETI helped the students come up with a better understanding of managing a natural resource like this.

Learnings from workshop used in the Project:

1. **Identification of Stakeholders** and **inclusion of Community:** *Going beyond the government organisations and including residents and local users of the space.*

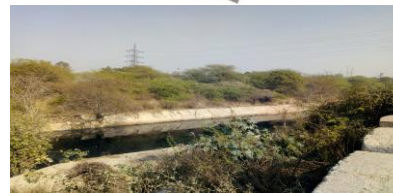
2. Improvement of Water Quality through **Bio remedial proposals:** *Improve quality of water through STPs, constructed wetlands and bio-filtration processes*

3. **Reconnecting** people back **with the Channel** and therefore improving it's stature: *Development of open space systems along the banks for recreation and treatment of concreted and boulder edges with vegetation*

4. Providing **Long, Medium and Short Term** Strategies for the Proposals.



Selected Stretch of 5 km for Detailed Proposals



Student Proposals

Above: Existing Visuals, Below: Proposed Design

THANK YOU...

LOOKING FORWARD TO A LONG TERM ASSOCIATION