



Course Code: AR711

Course: Training Viva

Name : Apurva Gupta
Roll No : MUP/10015/21

Project Name: GIS based Property Tax System for all ULBs

Project Brief

Enhancing UPYOG Property Tax module and GIS Model options for implementing a GIS based online property tax collection system across India.

Tasks Assigned

- Research (Case Studies on property tax reforms, GIS mapping, cost models and tax collection websites of Smart Cities).
- Review of Issues in UPYOG backend website.
- Study of Guidelines and Framework Standards for GIS infrastructure of Smart Cities.
- Meetings, Discussions and review of Proposals by GIS Companies for Budget modelling.
- Review of problems associated with the proposal and listing framework for solutions.

INTERN'S DIARY Summer of 2022



Apurva Gupta
Masters of Urban Planning
(2021-2023)

NIUA

National Institute Of Urban Affairs

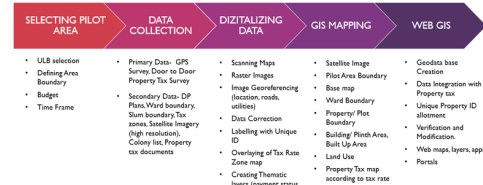
“The National Institute of Urban Affairs (NIUA) is India's leading National think tank on Urban Planning and Development.”

“My internship was within the Centre for Digital Governance (CDG) Team for the National Urban Digital Mission. I was part of the Urban Platform for delivery of Online Governance (UPYOG) programme, an effort to digitize and improve the Urban Service Delivery by ULBs across India.

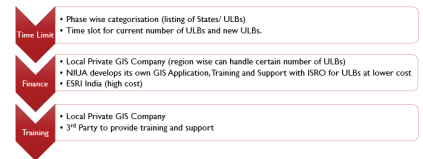
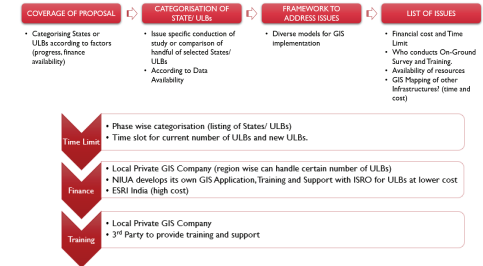
I was tasked with the Research for a GIS based Property Tax System to enhance the property tax module offered under UPYOG. I reviewed the online platforms, recommended changes in the implementation guidelines for the module and standards for the Property Tax Database. I also conducted discussion sessions with the GIS Companies, Experts, Fellows and proposed suitable cost models for project implementation.

My engagement with NIUA provided me with valuable insights about the future of Digital Governance.”

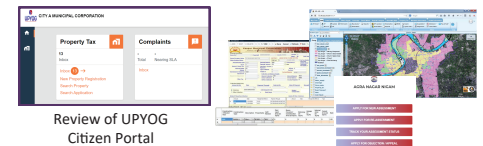
Work Sample



Pitch Presentations: Steps to Onboard States for GIS Implementation



Review of problems and Framework for solutions



Review of UPYOG Citizen Portal

Comparison of websites of various cities

Key Learnings: Through this project I studied the ground realities that ULBs face through implementation stages for GIS mapping and Online platforms for Property Tax Collection.



INTERN'S DIARY

Summer of 2022



Ashwani Kumar
Masters In Urban Planning
(2021-2023)

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” The National Institute of Urban Affairs(NIUA) is India's leading National think tank on Urban Planning and Development ”

“ My internship with the National Institute of Urban Affairs' Building Accessible Safe Inclusive Indian Cities (BASIC) programme was the most fulfilling and motivating experience I've had. I connected with my teammates,team leader, fellow associates, and other interns all of whom supported my growth both directly and indirectly

During my internship, I helped to prepare the compendium's summary report and technical report. I also participated in a webinar hosted by the Inclusive City Centre (ICC), where I contributed by drafting quotations for various media channels. I was also a co-author of an article in the magazine titled "Exclusively Inclusive.”

Project name: Cities Insights Report

Project brief

Cities Insights Report interlinks the drift of global urbanization and the need for adopting inclusive planning and designing approach by the cities.It is design for cities to address the barriers faced by persons with disabilities irrespective of age, gender and ability.

Task Assigned

To read the complete report and prepare a summary and technical report.

Project name:
City Audit Assessment Report:
Varanasi

Project brief

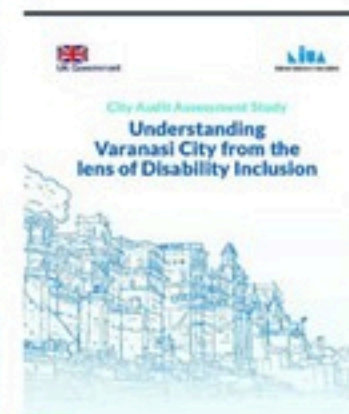
The report highlights the importance of adopting institutional and policy level changes which would act as key enablers for the adoption and replication of the recommendations at the grass-root level.

Task Assigned

To read the complete report and prepare a summary and technical report.

Key Learning: It helped me to understand the various aspects of inclusive city planning and to learn the strategies on developing the framework for disability inclusion.

Work Sample



INTERN'S DIARY

Summer of 2022



Krishna Varma
Masters In Urban Planning
(2021-2023)

" I worked with the Water & Environment Vertical of NIUA. I was majorly part of one of the draft knowledge products about Floods and Floodplain Management and I was also involved in the brainstorming stage for various capacity-building workshops on River Sensitive planning. While working on the knowledge product, I was involved in the research of best practices to support the facts and vulnerabilities of floods and floodplain management at the urban scale. The work experience at NIUA enabled me to have a handful of knowledge about the rivers in urban cities & the best practices. Moreover, it helped me to enhance my research skillsets, and knowledge about a few of the Planning Tools & Techniques, and Methodologies. The internship has encouraged me to explore various aspects of River Sensitive Urban Planning and made me enthusiastic to work on similar lines."

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Project Name: Floods and Floodplain Management in Urban Cities : Knowledge Product

Project Brief:

The thought was to prepare a guide which could help identify the issues due to which the flood like situation is occurring in the urban cities, how it is making the river as well as the city and people residing in it vulnerable and deriving a common set of tools, techniques and parameters under which cities can tackle the issues at urban scale.

Work Sample:

Types of Floods/Issues	Impacts on Urban Level
Increase in floodplain area	Decreases urbanization and increases rural population
Increase in floodplain area	Increases in the number of people living in flood-prone areas
Increase in floodplain area	Increases in the number of people living in flood-prone areas

Recommendations

- 1. The MPPZ explicitly mentions the first set of Core Policy Interventions (CPIs) which include:
 - 1.1. Floodplain Management
 - 1.2. Floodplain Management
 - 1.3. Floodplain Management
- 2. The NIMF addresses the second set of CPIs which include:
 - 2.1. Floodplain Management
 - 2.2. Floodplain Management
 - 2.3. Floodplain Management

About the Issue

Informal settlements encroaching the floodplain is identified as major issue across the world. Informal settlements have been situated in flood-prone areas, often in low-lying areas, often in flood-prone areas, often in flood-prone areas.

Impacts at Urban Level

- The following text explains the impacts of the flood plain in an urban area.
- The impact of flood and the flood plain on the urban area is explained in the figure below.
- In case of encroachment of the flood plain and urban areas, the nature of urban life is affected.

Flooding in Bihar

Bihar is one of India's worst flood affected states. About 5% of Bihar's total area is susceptible to flooding, accounting for about 1.5% of the country's total flood-prone area.

The increased exposure to floods from people building and living the floodplains directly affects the lives of the people living in the floodplains.

Recommendations

- 1. Social Concerns
- 2. Environmental Concerns
- 3. Urban Planning Concerns
- 4. Flood Management Concerns

Sabarmati Riverfront Development, Ahmedabad

The Sabarmati Riverfront Development Project (SRDP) is a major urban renewal project in Ahmedabad, Gujarat, India. The project aims to develop the riverfront area into a vibrant, multi-functional urban space.



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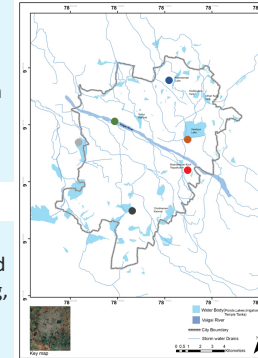
Name : Manish M Nair
Roll No : MUP/10002/21

Project Name: Baseline Study for 5 Cities informing Flood Vulnerability.

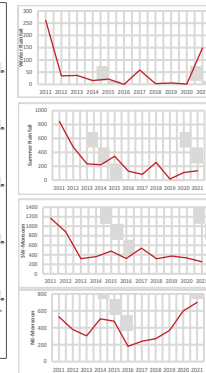
Project Brief

The project involves mapping the water bodies to inform the flood vulnerability of the city. Then the vulnerability and risk assessment in these cities will be undertaken and a spatial map will be developed to identify flood hotspots .

Work Sample



Historic Trend of Rainfall-Seasonal Variation:
(2011 – 2021)



Tasks Assigned

- Water Body Mapping using GIS
- Literature Study on Topics:Flood History,Factors causing Flooding, Hydrometeorological Parameter, City Profile.

Project Name: Compendium on best Practises that mitigates Flooding.

Project Brief

The project involves identifying some of the best interventions implemented all over the world under 5 Themes,” Urban Planning, Nature Based Solution, Infrastructure,Data and Technology which mitigates the risk of Flooding

Work Sample



Tasks Assigned

- 3D Visualization.
- Literature Study on Interventions that mitigates Urban Flooding.

Key Learning: Through this Internship I got an oppurtunity to do Hand’s on experience on Softwares Like GIS and learnt about various Strategies which mitigates Flooding.

INTERN’S DIARY
Summer of 2022



Manish. M. Nair
Masters In Urban Planning
(2021-2023)



National Institute Of Urban Affairs

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“ I was employed with the Climate Center for Cities (C3). I worked on a World Bank-funded project that entailed gathering best practises from around the globe in categories including urban planning, nature-based solutions, infrastructure, and data and technology that guided flood resilience in a city. Finding appropriate case studies and doing graphics-based visualisation required a lot of investigation. This training experience gave me the opportunity to learn a bit about the current best practises being used to reduce the risk of flooding. Additionally, it enhanced my research abilities, my ability to visualize information, GIS Knowledge and it helped me understand concepts like nature-based solutions. ”



INTERN'S DIARY

Summer of 2022



Vishwam Chandrayan
Masters In Urban Planning
(2021-2023)

“I did my internship with the Wastewater Intelligence Network (WIN) team at the National Institute of Urban Affairs (NIUA). During the tenure of my internship, I was tasked with research about Wastewater Based Epidemiology (WBE), and the various projects were undertaken across the world for the same as well as compiling and designing the product documents for the launch event. I was also tasked with cataloging and updating the glossary of GIS data of cities across the country on dataspace. mobi.

I feel that it was an enriching experience to be part of the program as I gained valuable technical knowledge and hands-on experience through my involvement. I also got the chance to attend meetings and discussions at the Ministry of Housing and Urban Affairs (MoHUA) which was a great opportunity to get first-hand experience of the inner workings of the ministry and the decision-makers involved.”

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Course Code:AR711

Course:Training Viva

Name : Vishwam Chandrayan
Roll No : MUP/10010/21

Project Name: Wastewater Intelligence Network (WIN)

Project Brief

This program is concerned with foreseeing governance in India taking a thought-level shift backed by an on ground action from a reactive approach to a pre-emptive and proactive approach.

Tasks Assigned

- Research
- Documentation
- Graphic Design
- Data Aggregation
- Data Digitization

Work Sample

Project Name: Dataspace.mobi

Project Brief

DataSpace is a public digital infrastructure that enables democratised sharing of high quality standardized datasets among various stakeholders in the quadruple helix model -Government, citizens, academia, and industry, in a secure and controlled manner.

Tasks Assigned

- GIS Data Aggregation
- Data Correction

Work Sample

Key Learning: This internship gave me a glimpse of how urban planning in India is undertaken and also helped me acquire skill that will be useful throughout my career