

A Sub-Scheme under Atal Mission for Rejuvenation and Urban Transformation 2.0



Formulation of GIS based Master Plans of Class-II Towns with population of 50,000 - 99,999




Town & Country Planning Organisation
Ministry of Housing and Urban Affairs
Government of India

December 2025

A Sub-Scheme under Atal Mission for Rejuvenation and Urban Transformation 2.0

**Formulation of GIS-based Master Plans for cities with population
99,999 – 50,000**

OBJECTIVE



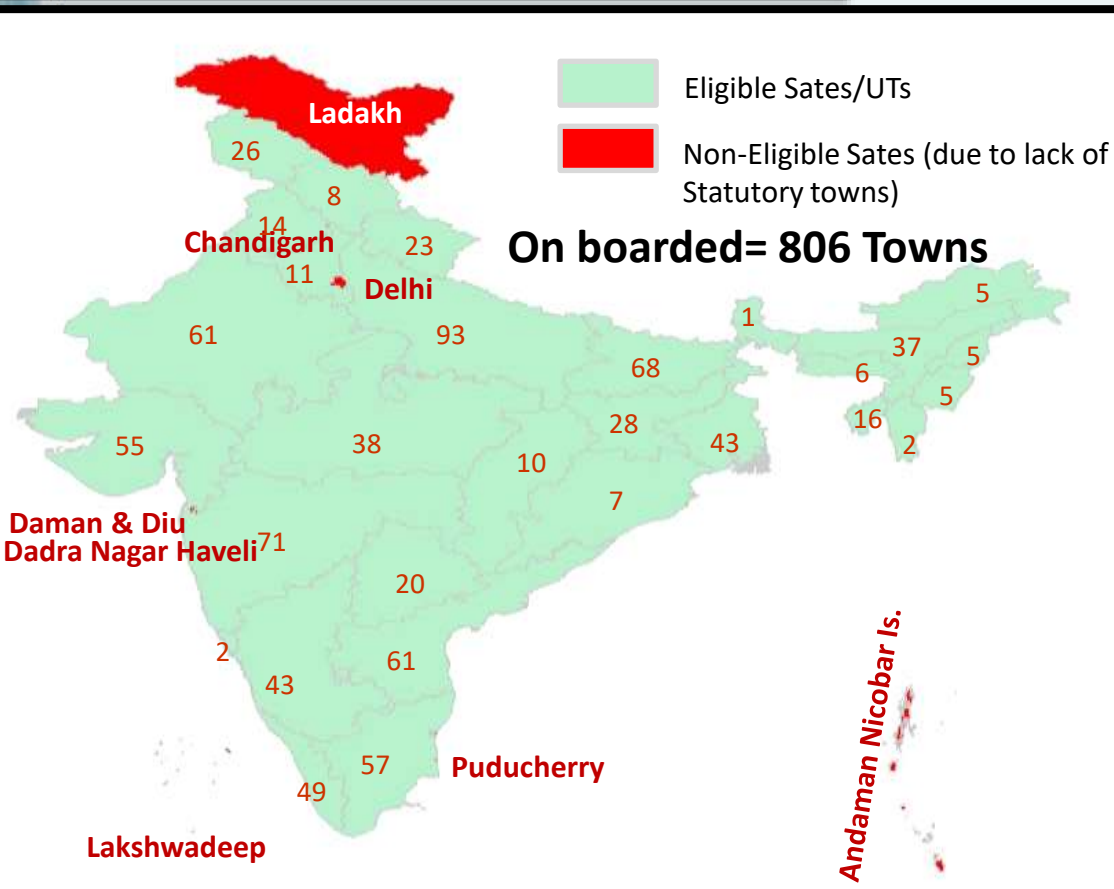
The objective is to **develop** standardized **digital base maps/land use maps using Geographical Information System (GIS)** in each AMRUT 2.0 city (preferably Class II towns having population 50,000 - 99,999.) to enable them to make more informed strategic decisions for Master Plan Formulation.

MAJOR DELIVERABLES

1. [Creation of Geo-database](#) as per Design & Standards documents published by Ministry of Housing and Urban Affairs (MoHUA) in May, 2016 and October, 2020.
2. [Formulation of GIS based Master Plan](#) as per State Town & Country Planning Act using the geo-database created as per Design & Standards documents.
3. [Capacity Building](#) amongst State/UT town planning departments and other concerned personnel in the use of GIS technology.
4. [Development of Centralized National Urban Geo-portal / Feeder Portal](#) provide a single window services to States/ UTs/ ULBs and other departments.
5. [Development of Integrated Mobile Application](#) for Vetting and Attribute Data collection and primary data collection for Master Plan Formulation.

COVERAGE

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Criteria:

- ✓ Class-II (50,000 - 99,999 pop)
- ✓ Holding statutory status
- ✓ Hilly and north-eastern States and UTs, may include the next class of statutory towns alongside Class II towns

Proposed = 875 Towns

Implementing Agency:

State Town Planning Departments/ State Mission Directorates of AMRUT

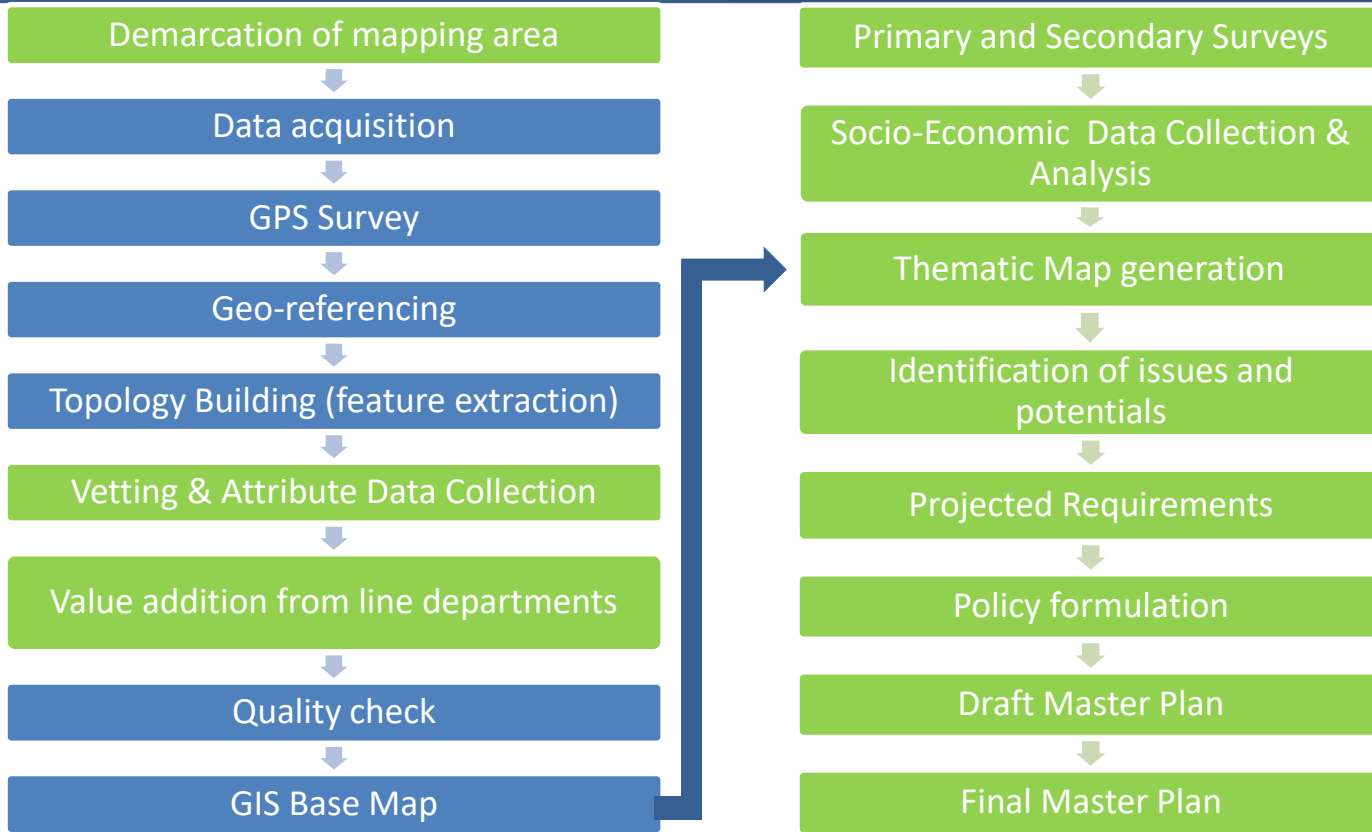
- ✓ prioritize
- ✓ intimate the number of cities to be taken up
- ✓ Submit duly approved State Action Plan (SAP).

Formulation of GIS-based Master Plans for cities with population 99,999 – 50,000

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PROCESS OF FORMULATION OF GIS-BASED MASTER PLAN



Responsibility
Index

State/UT/ULB

Mapping
agency/
consultant

TIMELINES

Components	2022	2023	2024	2025	2026
Creation Of Geo-database		[Red bar spanning 2023, 2024, and 2025]			
Master Plan Formulation		[Red bar spanning 2023, 2024, and 2025]			
Capacity Building		[Red bar spanning 2023, 2024, and 2025]			
Integrated Mobile Application			[Red bar spanning 2024]		
Centralized National Urban Geo-portal				[Red bar: Development]	[Orange bar: Uploading]

ESTIMATED BUDGET

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S. N.	Components	Cost * (Rs. In Cr.)
1.	Creation of Geo-database	157.50
2.	Formulation of GIS based Master Plan	612.50
3.	Capacity Building	18.00
4.	Centralized GIS Feeder portal	12.18
5.	Integrated Mobile Application	0.90
TOTAL		801.08

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FUND FLOW –
State/ UT Governments:

PATTERN OF RELEASE OF FUNDS 20-40-20-20

20% of the project cost will be released as an **advance** on approval of the SAP for image acquisition and collection of socio-economic data.



40% of the project cost on **completion of draft geo-database creation, vetting and attribute data collection uploading of final geo-databases and approved GIS based master plans created/ formulated under AMRUT Sub-Scheme or through any other State/UT Initiatives on Centralized National Urban Geo-portal.**



Next **20%** on creation of final geo-database, **submission of draft master plan and uploading of final Geo-databases of towns/cities created under AMRUT 2.0 Sub-Scheme on Centralized National Urban Geo-portal.**



Final **20%** installment on **approval of final master plan and uploading the same on Centralized National Urban Geo-portal.**

Funds at every stage will be released subject to furnishing of the utilization certificate and physical milestone achievement of deliverables duly reported by competent authority.



State Holders

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Formulation of GIS Based Master	State	In-house/Out sourcing
CREATION OF GEODATABASE	State	Satellite/Drone As Per MoU
	NRSC	
	SOI	
Centralized National Urban Geo-portal	NIC	As per MoU
Integrated Mobile Application	IIRS	As per MoU



For Official Use Only

Formulation of GIS-based Master Plans for cities with population 99,999 – 50,000

State Action Plan (SAP) Template

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Formulation of GIS based Master Plans of Class-II Towns
with population of 50,000 - 99,999
State Action Plan (SAP) Template



Town & Country Planning Organisation
Ministry of Housing and Urban Affairs
Government of India

May 2022

(PRE-BID STAGE)

Table 1: TEMPLATE FOR STATE ACTION PLAN

Table 2: TEMPLATE FOR CAPACITY BUILDING ACTION PLAN

Table 3: ESTIMATED BUDGETARY REQUIREMENT FOR STATE ACTION PLAN

(POST-BID STAGE)

Table 4: TEMPLATE FOR CITY ACTION PLAN & TIMELINES

Table 5: ACTUAL BUDGETARY REQUIREMENT FOR STATE ACTION PLAN

Available at: [Reforms Listing \(mohua.gov.in\)](https://mohua.gov.in)

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Atal Mission for Rejuvenation and Urban Transformation 2.0
 Ministry of Housing & Urban Affairs
 Government of India

AMRUT 2.0
Collaboration Platform



AMRUT 2.0 Collaboration Platform



- 27 SAP Approved
- 26 SAP in Progress
- 1 SAP Not Started
- 1 SAP Not Started

Sub-Scheme on Formulation of GIS Based Master Plans of Class II Towns with Population 50,000 - 99,999

Select State

SAP Summary

27 SAP Approved	26 SAP in Progress	1 SAP pending for approval	1 SAP Not Started
2 SAP in Progress	55,949.75 Mapping Area (in Sq. Km)	728 Towns Covered	

Financial Summary

560.54 Estimated Amount (in ₹ Cro)	605.66 Actual Amount (in ₹ Cro)	548.05 Approved Amount (in ₹ Cro)
108.19 Sanctioned Released (in ₹ Cro)	0 SAP Released (in ₹ Cro)	

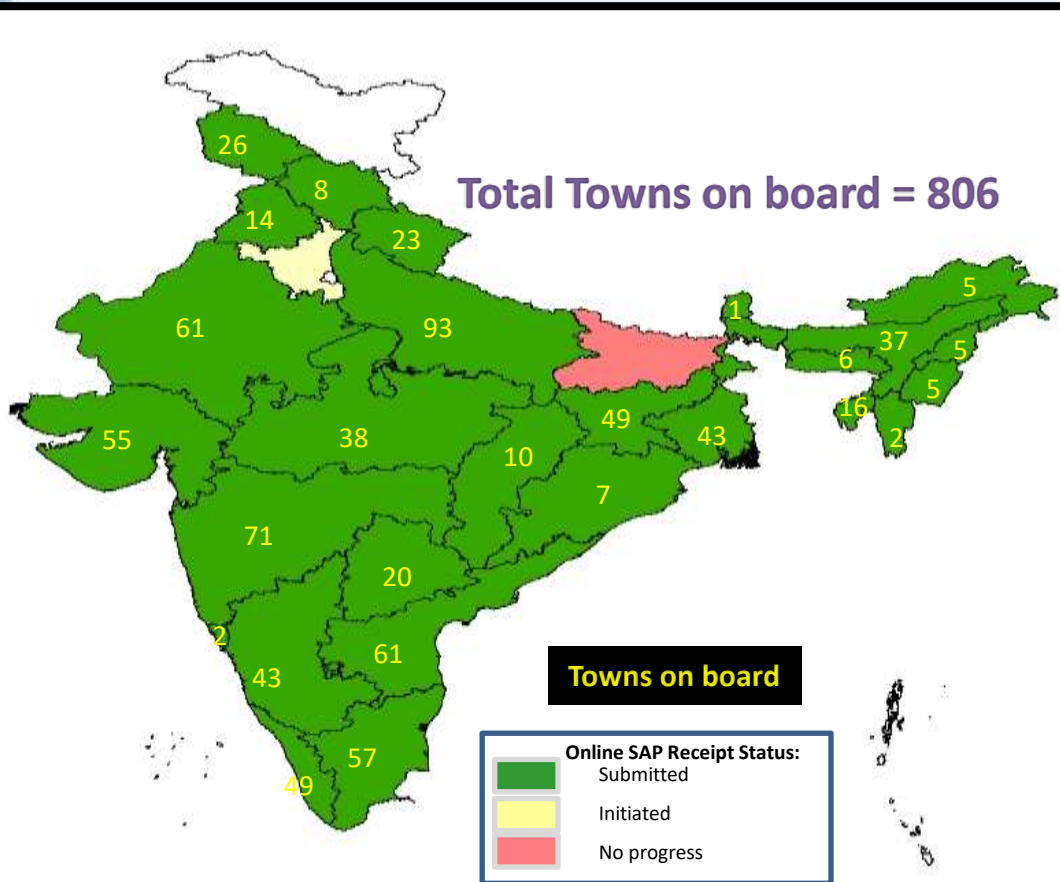
Agencies Involved

RFP and Contract Status

State	RFP Issued	Contract Awarded
Uttarakhand	1000	1000
Uttar Pradesh	1000	1000
Madhya Pradesh	1000	1000

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SAP Receipt Status



Twenty-seven (27) approved SAPs along with SHPSC/SLTC recommendation/s have been received from Andhra Pradesh, Arunachal Pradesh, Assam, Chhattisgarh, Goa, Gujarat, Himachal Pradesh, Jammu And Kashmir, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Mizoram, Nagaland, Odisha, Punjab, Rajasthan, Sikkim, Tamil Nadu, Telangana, Tripura, Uttar Pradesh, Uttarakhand, West Bengal.

The Ministry has released the 1st Installment to all the above States (except Jharkhand as it is under consideration) and Mapping Agencies and other Stake holders.

For a few States, the Ministry has also released the 2nd Installment.

Physical

1. Geo-database Creation

Activities	Satellite Data Acquisition	Draft Maps	Geo database vetted	Final Maps Delivered
States	16	14	4	3
Towns	386	277	162	90

2. Master Plan Formulation

Activities	Draft Master Plan	Final Master Plan
States	4	4
Towns	117	55

3. Capacity Building

Training Organised	<u>24</u>
Officials trained	1032

Financial

1. Allocation	: Rs. 801.08 Cr.
2. Funds approved	: Rs. 548.05 Cr.
3. Total Funds Released	: Rs. 113.43 Cr.
4. UCs Received	: Rs. 10.12 Cr.

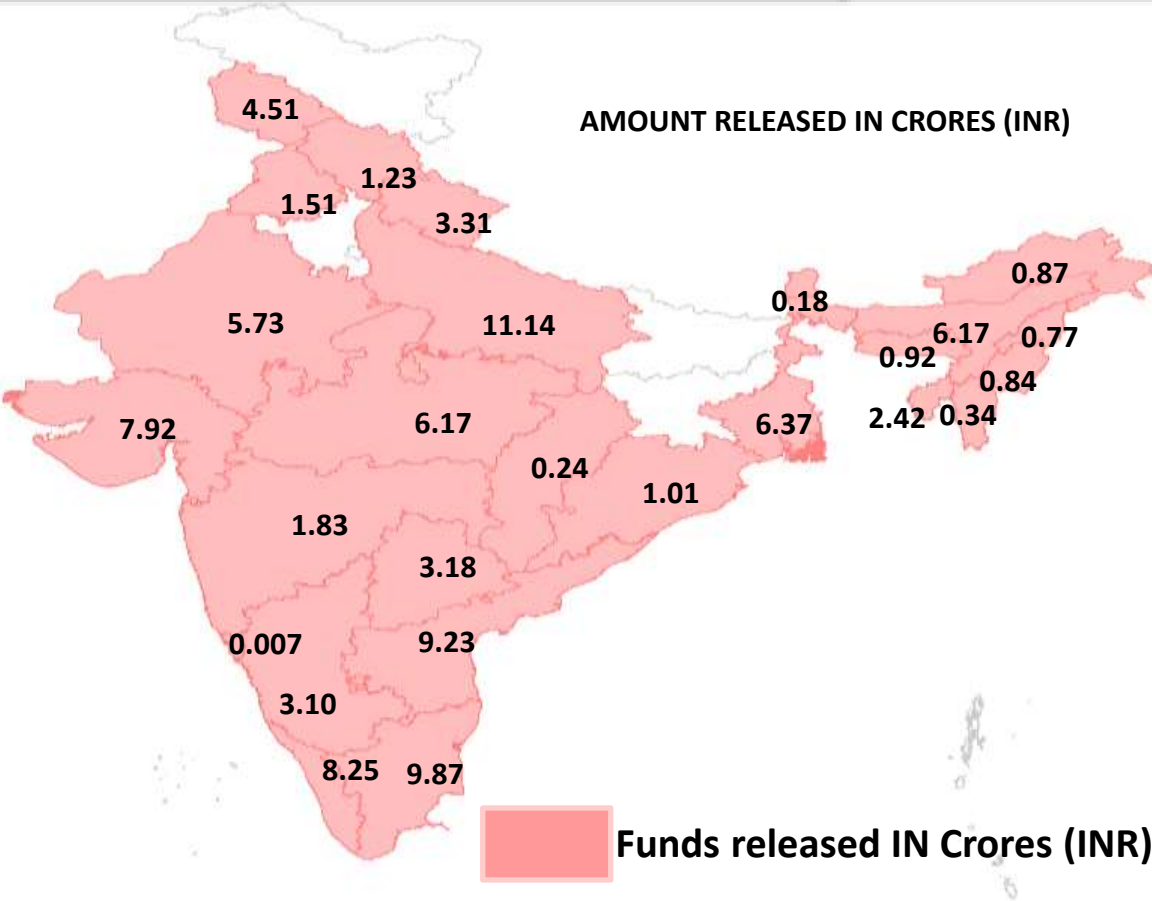
Details of First installment (20% Advance)

A. Funds released to States:	: Rs. 108.2 Cr.
B. Funds released to NRSC	: Rs. 1.38 Cr.
C. Funds released to Sol	: Rs. 14.77 Cr.
D. Funds released to NIC	: Rs. 4.87 Cr.
E. Funds released to IIRS	: Rs. 0.36 Cr.

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Financial Progress



Funds have been released to **Twenty-four (26) States** namely Andhra Pradesh, Arunachal Pradesh, Assam, Chhattisgarh, Goa, Gujarat, Himachal Pradesh, Jammu And Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Mizoram, Nagaland, Odisha, Punjab, Rajasthan, Sikkim, Tamil Nadu, Telangana, Tripura, Uttar Pradesh, Uttarakhand, West Bengal.

States are mandated to create a separate SNA account “GIS based Master Plan” under PFMS for smooth release of funds.

Total Approved Amount = Rs.548.05 Cr.
 Total Released Amount = Rs.113.42 Cr.
 Total Amount released to State = Rs.92.00 Cr.
 Total Amount released to SOI = Rs.14.77 Cr.
 Total Amount released to NRSC= Rs.1.38 Cr.
 Total Amount released to IIRS = Rs.0.36 Cr.
 Total Amount released to NIC = Rs. 4.87 Cr.



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Model Request for Proposals (RFP) Template

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Atal Mission for Rejuvenation and Urban Transformation 2.0

Formulation of GIS based Master Plans of Class-II Towns
with population of 50,000 - 99,999

Model Request for Proposals



Town & Country Planning Organisation
Ministry of Housing and Urban Affairs
Government of India

September 2022

Section 1: Letter of Invitation

Section 2: Terms of Reference

Section 3: Information to Consultants

Section 4: Prequalification

Section 5: Technical Proposal - Standard Forms

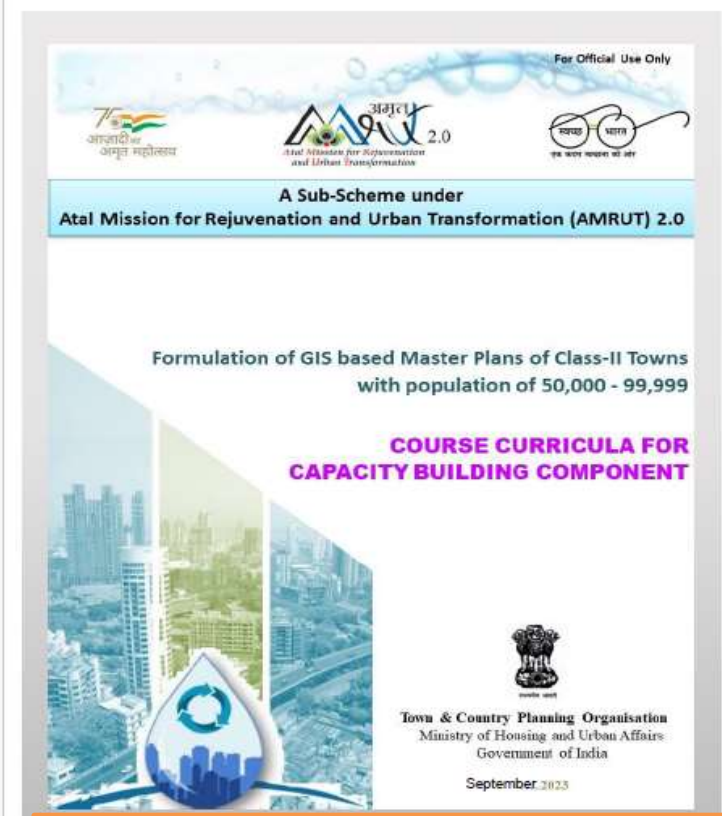
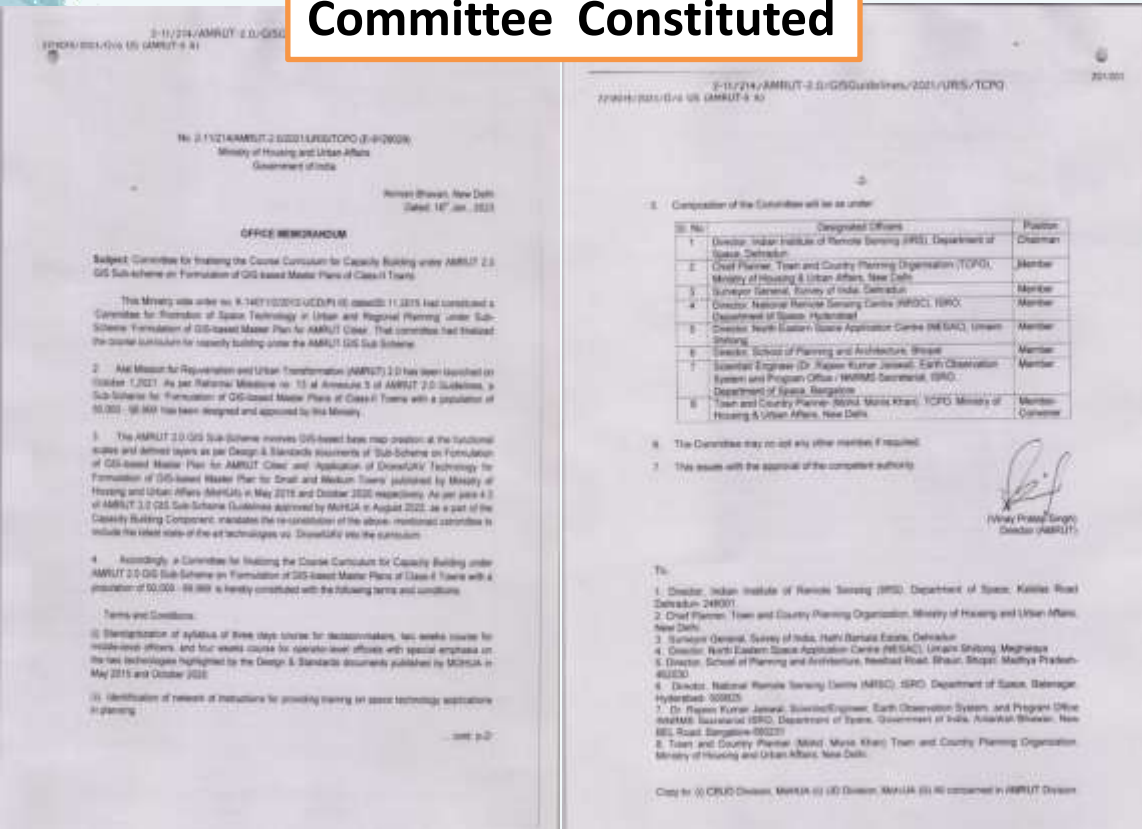
Section 6: Financial Proposal - Standard Forms

Section 7: Standard Form of Contract

Available at: [Reforms Listing \(mohua.gov.in\)](https://mohua.gov.in)

A Sub-Scheme under
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Committee Constituted



Course Curriculum approved

A Sub-Scheme under
Atal Mission for Rejuvenation and Urban Transformation 2.0

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आज़ादी का
अमृत महोत्सव

अमृत
Atal Mission for Rejuvenation
and Urban Transformation
2.0

स्टारबर्क
भारत
एक कदम स्वच्छता की ओर

Development of a Mobile App for Vetting, and Attribute
and Primary Data Collection for Master Plan
Formulation (Sankalan 2.0)
for the Sub-Scheme on Formulation of GIS based Master
Plans of Towns with population of 50,000 - 99,999 under
AMRUT 2.0



Memorandum of Understanding

BETWEEN

Indian Institute of Remote Sensing
Indian Space Research Organisation
Department of Space
Government of India
Dehradun, Uttarakhand

AND

Ministry of Housing and Urban Affairs
Government of India
New Delhi

Signed on 13th March 2024

Memorandum of Understanding (MoU)

MoU for Development of Integrated
Mobile Application by IIRS, ISRO, GoI
has been approved by the Ministry.

MoU has been signed 13th March
2024

NIC/NICSI MoU

Project Proposal

for

Urban Geoportal for AMRUT 2.0

Project ID: 3088

Submitted to:

Ministry of Housing and Urban Affairs

Submitted by:

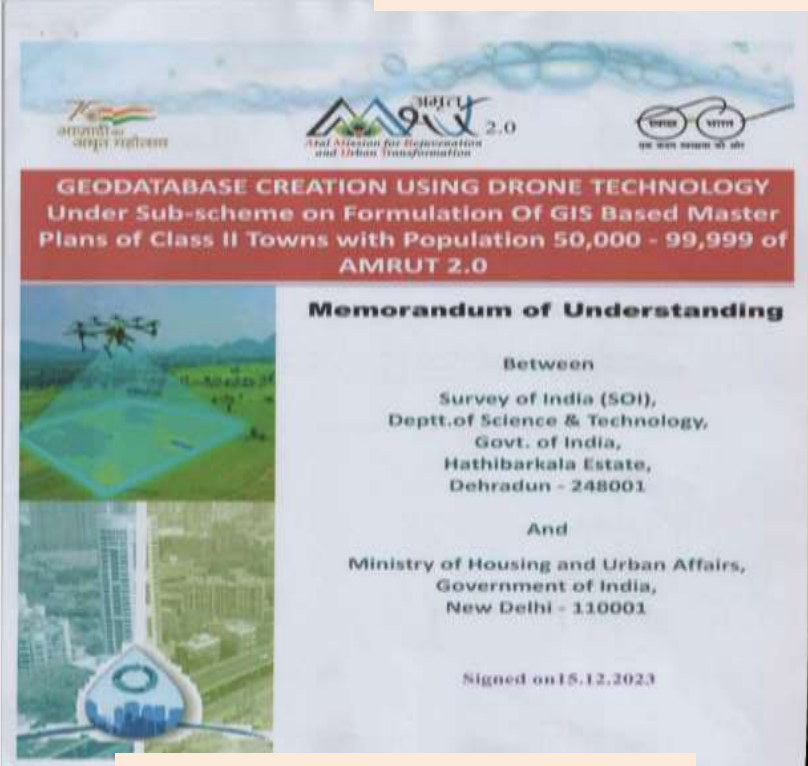


Geo Spatial Technology and Services Division
National Informatics Centre
Ministry of Electronics & Information Technology
Government of India
A Block, CGO Complex, Lodi Road, New Delhi
July, 2022



Memorandums of Understanding for Creation of Geo-database signed

Targeting to map approximately 87,500 Sq. Km



GEODATABASE CREATION USING DRONE TECHNOLOGY
 Under Sub-scheme on Formulation Of GIS Based Master Plans of Class II Towns with Population 50,000 - 99,999 of AMRUT 2.0

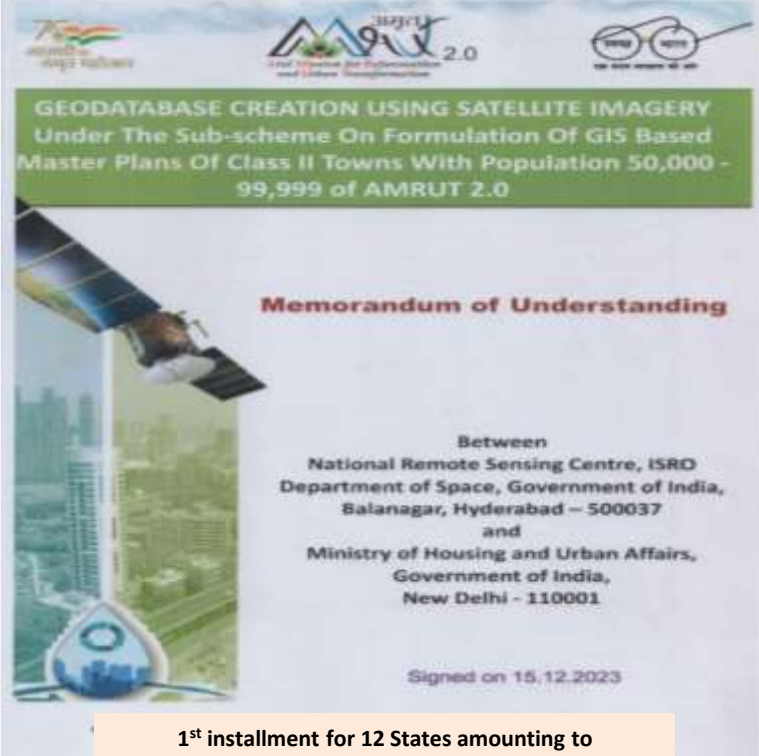
Memorandum of Understanding

Between
 Survey of India (SOI),
 Deptt.of Science & Technology,
 Govt. of India,
 Hathibarkala Estate,
 Dehradun - 248001

And
 Ministry of Housing and Urban Affairs,
 Government of India,
 New Delhi - 110001

Signed on 15.12.2023

1st installment for 6 States amounting to Rs.13,816,694/- released



GEODATABASE CREATION USING SATELLITE IMAGERY
 Under The Sub-scheme On Formulation Of GIS Based Master Plans Of Class II Towns With Population 50,000 - 99,999 of AMRUT 2.0

Memorandum of Understanding

Between
 National Remote Sensing Centre, ISRO
 Department of Space, Government of India,
 Balanagar, Hyderabad – 500037
 and
 Ministry of Housing and Urban Affairs,
 Government of India,
 New Delhi - 110001

Signed on 15,12,2023

1st installment for 12 States amounting to Rs.8,17,55,568/- and 2nd installment for 4 States amounting to Rs. 6,59,92,752/- released

Thank you



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Atal Mission for Rejuvenation and Urban Transformation 2.0

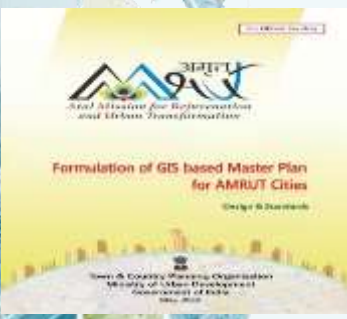
ESTIMATED BUDGET
Cost of Creation of Geo-database

No. of towns	Avg. Area/ Town (sq. km.) #	Total Area (Sq. Km.)	Cost * (Rs. in Cr.)
875	100	87500	157.5

* The Cost is based on SOI estimates for creation of geo-database using drone technology @ **Rs. 18000/- per sq. km** (approx) excluding vetting and attribute data collection.



* In case States/UTs desires to create geo-database using VHRS data, the unit rate cost of **Rs. 12894/- per sq. km** (approx), (as per NRSC estimates) excluding vetting and attribute data collection.



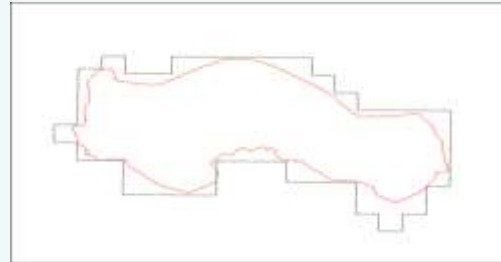
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ESTIMATED BUDGET
Cost of Creation of Geo-database

No. of towns	Avg. Area/ Town (sq. km.) #	Total Area (Sq. Km.)	Cost * (Rs. in Cr.)
875	100	87500	157.5

Average area of a town calculated as per information obtained from State/UTs.

Actual area will be worked out in SAP by State Government for each town and accordingly cost will be calculated.



ESTIMATED BUDGET

Cost for Formulation of Master plan

No. of towns	Unit Cost (Rs. crores/town)*	Total Cost (Rs. in crore)
875	0.70	612.5

*Average of rates obtained from State Government



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ESTIMATED BUDGET Cost of capacity Building

S. N.	Capacity Building	Total Cost (Rs. in crore)
1.	GIS-based master plan formulation and Integrated Mobile App*	17.50
2.	National/Regional Workshops**	0.50
Total		18.00

* Includes Cost for Capacity Building @ **Rs. 2 lakhs per towns for 875 towns.**

** Includes Cost for organizing National/Regional Workshops



ESTIMATED BUDGET

Cost of Development of Centralized National Urban Geo-portal/Feeder Portal

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Atal Mission for Rejuvenation and Urban Transformation 2.0

Portal Content:

1. existing and proposed geo-databases of AMRUT and AMRUT 2.0
2. master plans of towns/cities created/formulated under various Centrals Schemes like AMRUT and AMRUT 2.0 alongside State funded Schemes/ Projects available with State Governments are to be uploaded and integrated.
3. In case of States/UT Governments will not be engaged with the said Sub-Scheme of AMRUT 2.0, however, are also to upload final geo-database/s and approved master plans created/formulated under Sub-Scheme on 'Formulation of GIS based Master Plan for AMRUT Cities' on the.

Objective:

A single window services to States/ UTs/ ULBs and other departments to increase the efficiency, productivity and transparency.

MoHUA has signed MOU with NIC/NICSI on 16th January 2025



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ESTIMATED BUDGET

Cost of Development of Integrated Mobile Application



Objectives:

- ✓ **Vetting and Attribute Data collection** to incorporate inputs from Satellite Imagery and Drone Technology in accordance with the Design & Standards documents published by MoHUA and
- ✓ **primary data collection** for Master Plan Formulation in an integrated manner.

The rates for development of Integrated Mobile Application have been obtained from IIRS, DoS, Dehradun.

SANKALAN 2.0 launched on November 9, 2025



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STRUCTURE OF FUND MANAGEMENT

Creation of Geo-database

The creation of Geo-database may be taken up

- in-house,
- out-sourcing or
- through **National Mapping Agencies** like National Remote Sensing Centre (NRSC) and Survey of India (SOI).

Based on requirement of State/UTs Governments, MoHUA will sign Memorandum of Understanding (MoU)s for geo-database creation with NRSC and SOI.



Ministry of Housing and Urban Affairs
Government of India



nrsc



payments directly to National Mapping Agencies on pro-rata basis for the extent of area mapped as proposed and required by State/UT Governments, calculated on the basis of the cost provided by the National Mapping Agencies.



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STRUCTURE OF FUND MANAGEMENT Formulation of GIS-based Master Plan



सत्यमेव जयते

Ministry of Housing and Urban Affairs
Government of India



The State Mission
Directorate/State Town
Planning Departments

SNAs will manage the funds through PFMS account in accordance with the Memo of DoE, MoF, GoI dated 28.9.2022.

The exact quantum of funds to be sanctioned and released will depend upon the following:

- The total number of cities
- Whether work is taken up in-house or it is outsourced to a Consultant.
- Exact cost quoted by the Consultant



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STRUCTURE OF FUND MANAGEMENT Capacity Building



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Ministry of Housing and Urban Affairs
Government of India



Funds will be managed
by - The State Mission
Directorate/State Town
Planning Departments

The pattern for fund sanction and release will be as per the cost and schedule of training proposed by the State Mission Directorate



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STRUCTURE OF FUND MANAGEMENT

Development of Centralized National Urban Geo-portal



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Ministry of Housing and Urban Affairs

Government of India



NIC National
Informatics
Centre

The pattern for fund sanction and release will be as per the approved cost proposal



STRUCTURE OF FUND MANAGEMENT
Development of Integrated Mobile Application

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Ministry of Housing and Urban Affairs
Government of India



The pattern for fund sanction and release will
be as per the signed MoU



Creation of Geo-database

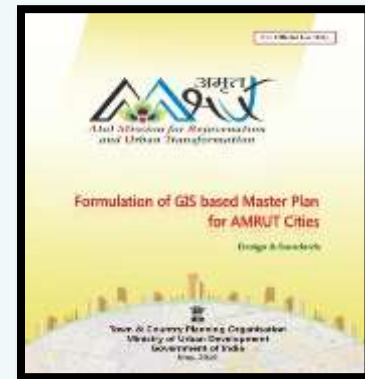
Final GIS based base maps at the functional scales and defined layers as per any of the below:



'Application of **Drone/UAV Technology** for Formulation of GIS based Master Plan for Small and Medium Towns' published by Ministry of Housing and Urban Affairs (MoHUA) in January, 2020



Design & Standards documents of 'Sub-Scheme on Formulation of GIS based Master Plan for AMRUT Cities' published by Ministry of Housing and Urban Affairs (MoHUA) in May 2016



Formulation of GIS-based Master Plan

Formulation of GIS based master plans of cities **as per State Town & Country Planning Act**, which includes sector-wise data collection & analysis, demand assessment, identification of issues, projected requirements, development strategies and draft and final master plans using the geo-database created as per Design & Standards documents.

The GIS based master plans will be formulated by State Governments **in-house or through out-sourcing as per the State Town Planning Acts**.

As per data received from States/UTs till March 2022.

Total No. of Class II Cities = 664

□ Cities having no MP = 313

■ Cities having DMP = 42

■ Cities having MP = 309

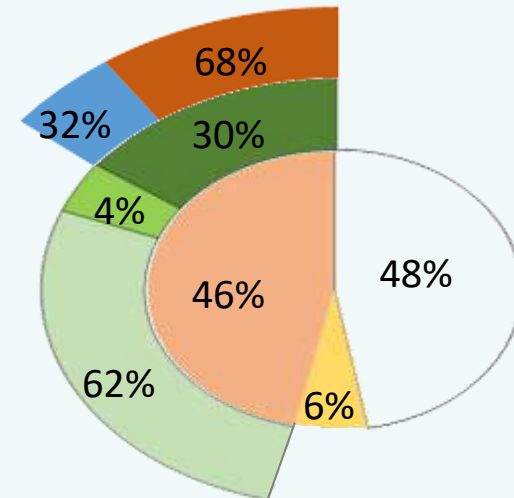
■ MP expired = 191

■ MP will expire by 2026 = 24

■ MP valid after 2026 = 94

■ MP not in GIS Platform = 30

■ MP in GIS Platform = 64



Capacity Building

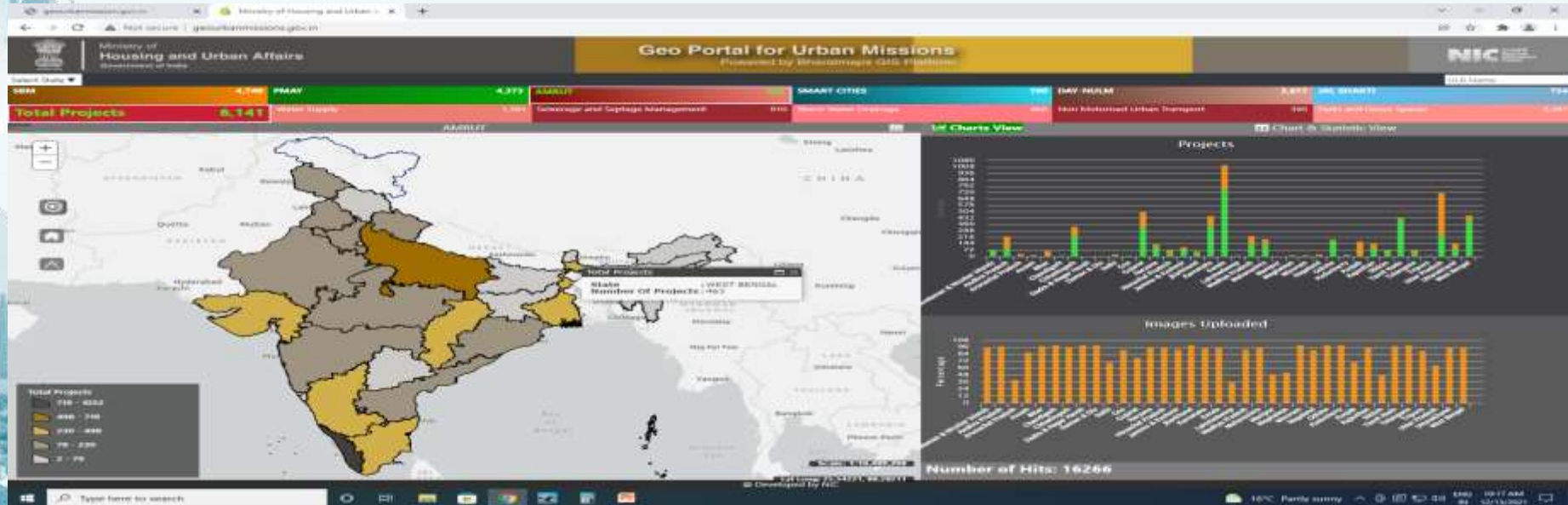


- To create a cadre of professionals proficient in the **use of GIS technology**
- Build capacity amongst town planning, line departments and other concerned personnel at State and local levels
- 3 Tier training program –
 - **Administrators level** –three days duration.
 - **Planning level** –two weeks duration.
 - **Operators and Technicians level** –four weeks duration.
- The course curriculum under Sub-Scheme will be revised as per the requirements of Sub-Scheme under AMRUT 2.0.
- National and Regional Workshops to be organized
- **Capacity building for uploading geo-database and Master Plan on proposed National Urban Geo Portal by NIC and Use of Mobile app for ground truthing by IIRS.**



Centralised National Urban Geo Portal/ Feeder Portal

The existing and proposed geo-databases and master plans of towns/cities created/formulated under various Centrals Schemes like AMRUT and AMRUT 2.0 alongside state funded Schemes/ Projects available with State Governments are to be uploaded and integrated on a **‘Centralized National Urban Geo-portal/ Feeder Portal’**.



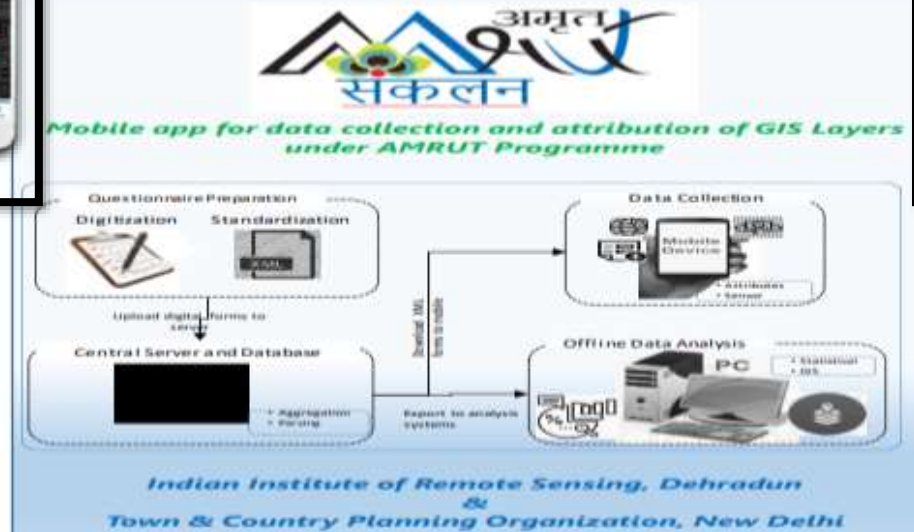
Components:- Mobile App

MOBILE BASED DATA COLLECTION



Development/Re-development of an **Integrated Mobile Application** for Vetting and Attribute Data collection and Social – Economic Survey for Master Plan Formulation

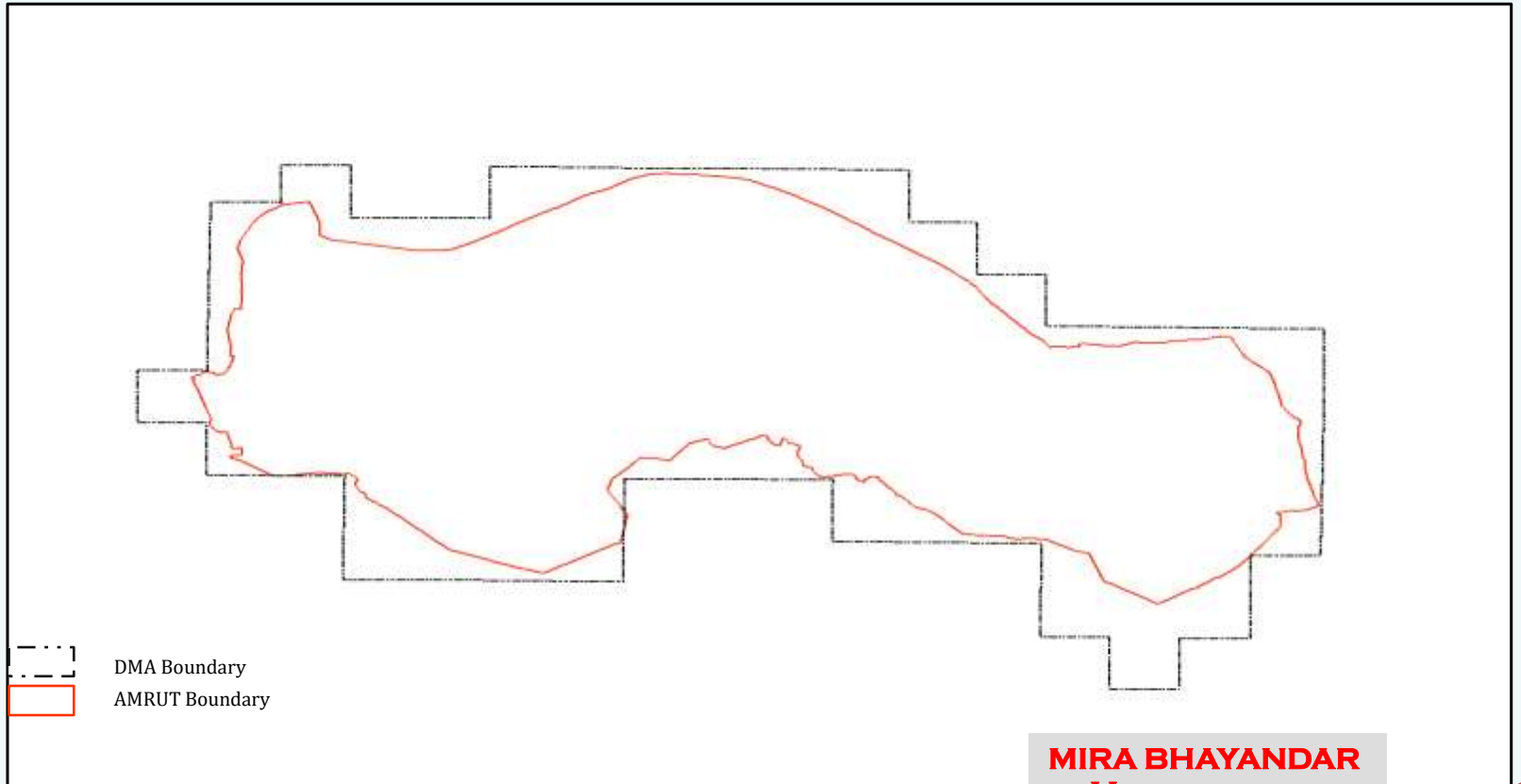
SOCIAL SURVEY



The Sankalan 2.0 Mobile Application has been launched by Hon'ble Minister of State of Housing and Urban Affairs, Govt. of India on November 9, 2025 during the Urban Conclave.



Demarcation of Mapping Area



**MIRA BHAYANDAR
MAHARASHTRA**

Data Acquisition



Very High Resolution
Satellite Data



Drone/ UAV Data



GPS Survey



Geo-referencing



Trainings on Vetting & Attribute Data Collection



Madhya Pradesh



Chattisgarh



Uttar Pradesh



Mizoram



Puducherry



Kerala



Punjab



Telangana



Himachal Pradesh



Uttrakhand



West Bengal



Tamil Nadu



Assam



Kargil (Ladakh)

Value addition from line departments WATER NETWORK LINE



**MIRA BHAYANDAR
MAHARASHTRA**

Value addition from line departments SEWERAGE NETWORK LINE AND POINT



**ICHALKARANJI
MAHARASHTRA**



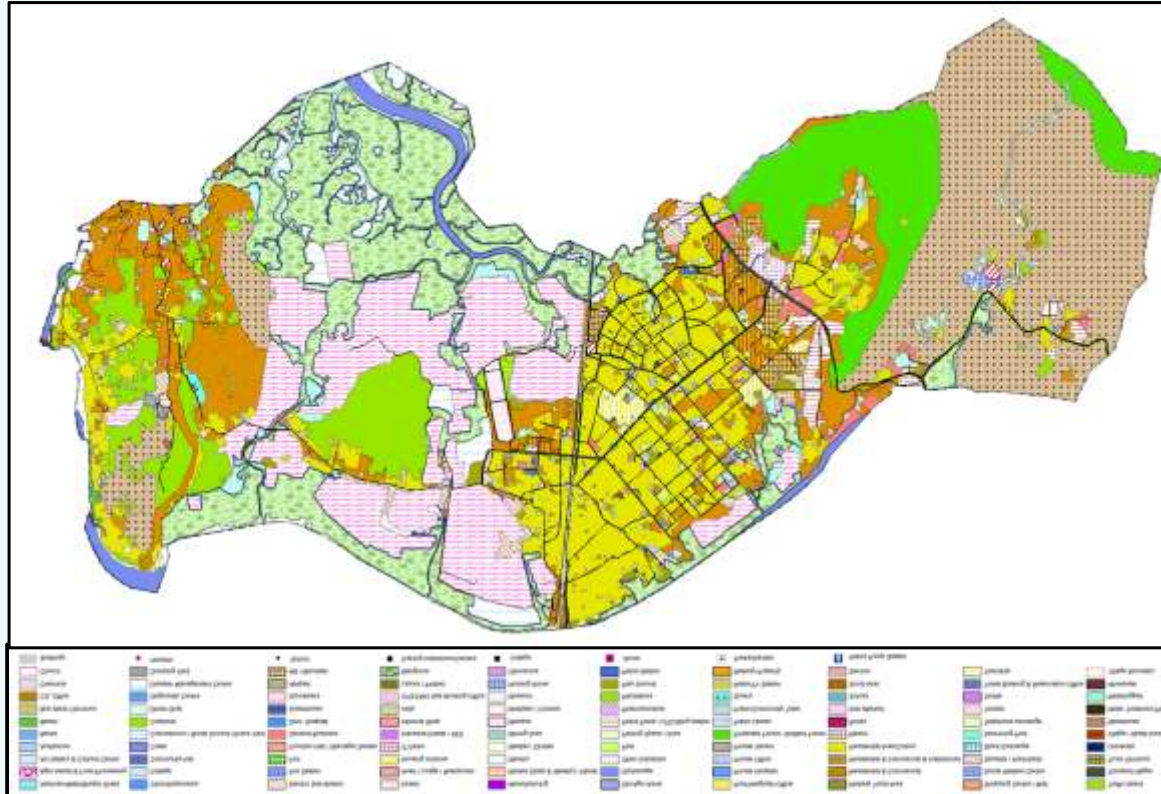
Quality Checks



Internal and External Quality Checks at regular intervals to be conducted by Mapping Agency/ Consultant



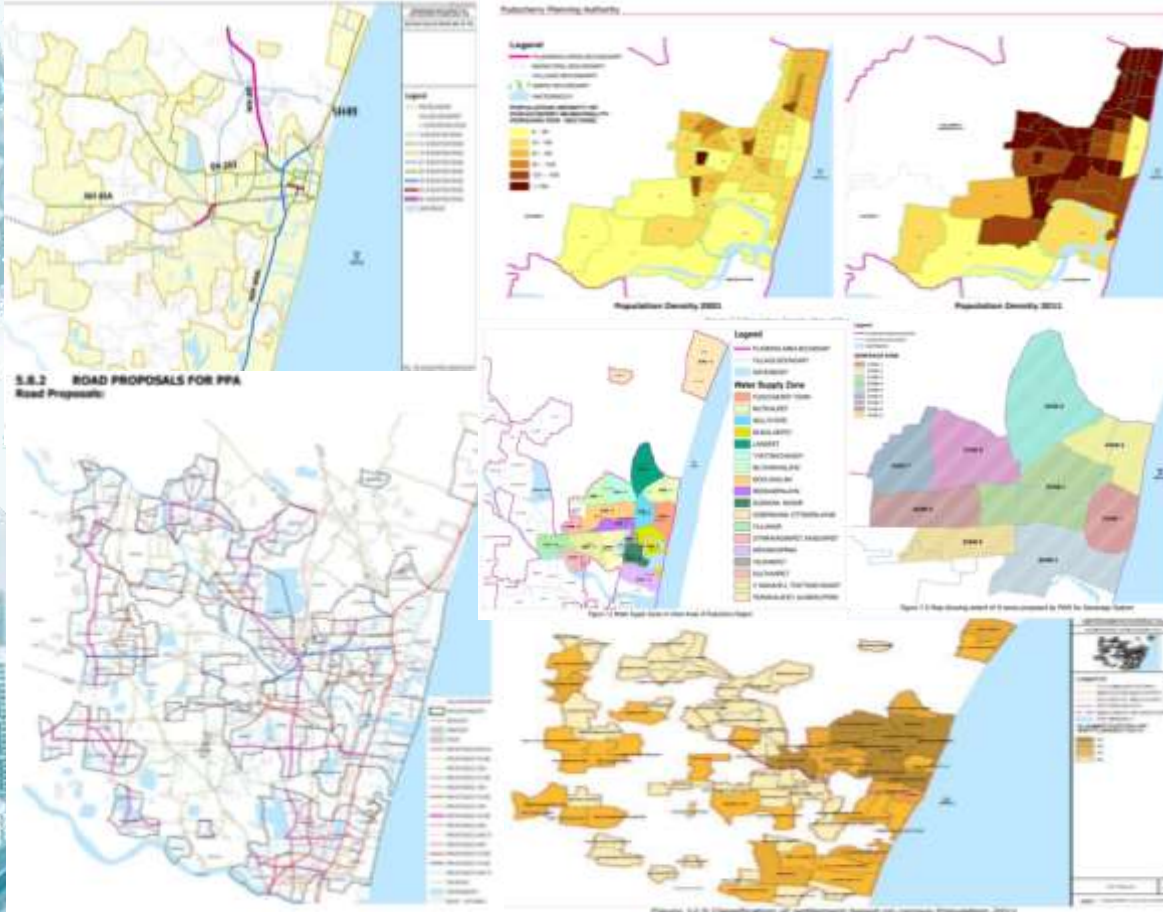
GIS Base Map



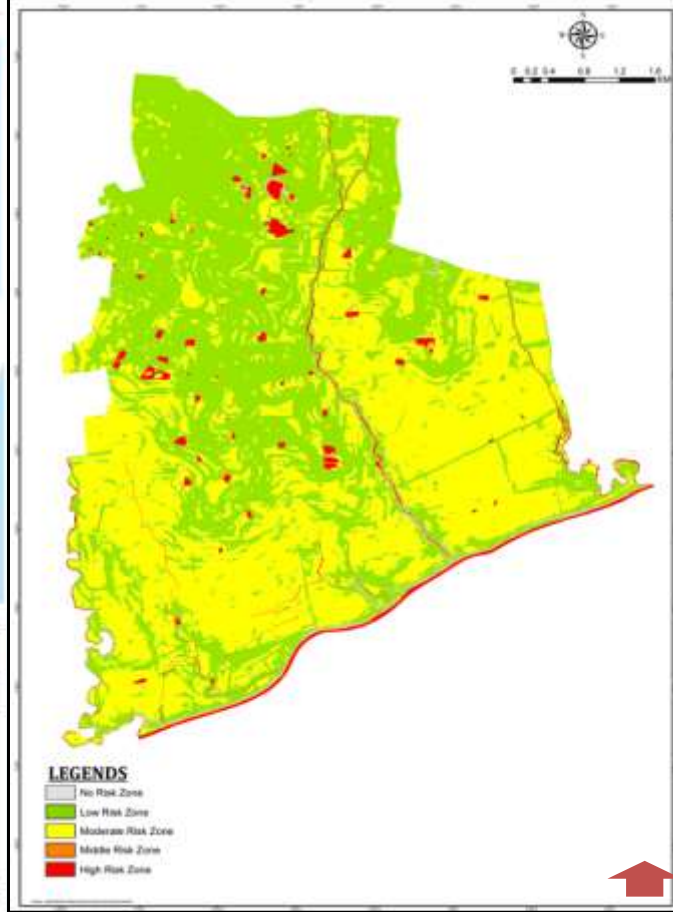
**MIRA BHAYANDAR
MAHARASHTRA**



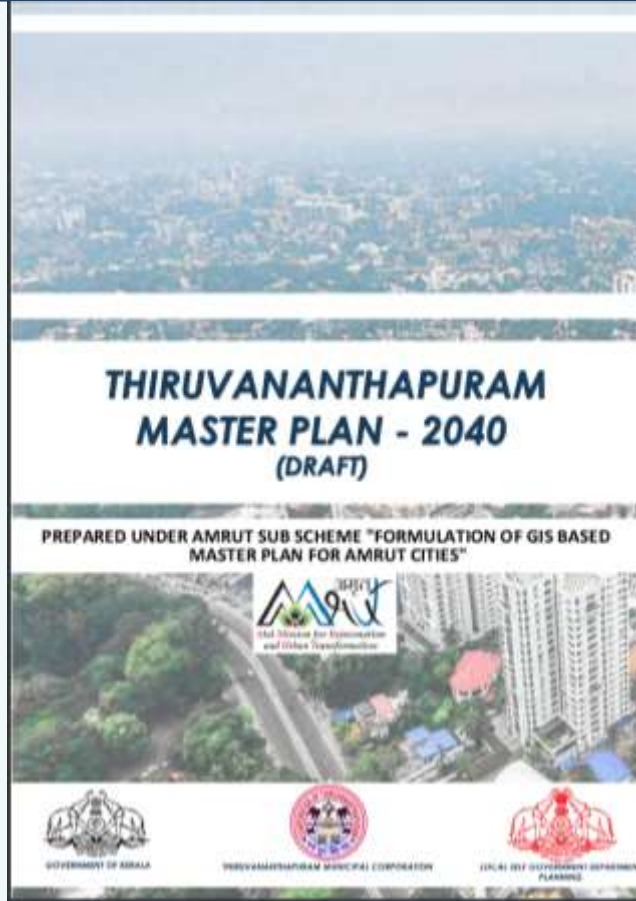
Thematic map Generation



S.B.2 ROAD PROPOSALS FOR PPA
Road Proposals



Draft Master Plan



Formulation of GIS-based Master Plans for cities with population 99,999 – 50,000

REVISED Reform Agenda/Sub-Scheme Guidelines



Original version Available at:
[Reforms Listing \(mohua.gov.in\)](https://reforms.listing(mohua.gov.in))



- The **Reform Agenda** was initially published in **August 2022** for **675 towns**, with a **budgetary outlay of ₹631.13 crore**.
- The Ministry has received **duly filled State Action Plans (SAPs)** from **26 States**, covering **728 towns**.
 - During review meetings and via email communication
 - Few States have indicated they will submit **revised SAPs**.
 - **Three States** are yet to submit their SAPs.
- Based on this, the Ministry has published/circulated the **Revised Reform Agenda in July 2025**, now covering:
 - **875 towns**
 - **revised budgetary outlay of ₹801.08 crore**
 - **Subsuming** previous **GIS Sub-Scheme under AMRUT** on 'Formulation of GIS-based Master Plans' to support States in completing **pending activities**
 - Enable States unable to access AMRUT 2.0 GIS Sub-Scheme funds due to non-achievement of prerequisites
 - The '**Formulation of GIS-based Master Plans**' has been extended till **December 2025**, with a **budgetary implication of ₹146.81 crore**.
 - The Sub-Scheme will continue to operate as per the **Reform Agenda and Design Standards** issued by **MoHUA in May 2016**.
- **Total revised budgetary outlay** under the GIS component now stands at **₹947.89 crore** for both the Sub-Schemes