Sub-scheme on Formulation of GIS based Master Plan for AMRUT Cities

Training Report on Vetting and Attribute Data Collection of AMRUT Towns in Puducherry 26-27 February 2019

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

1.0   Introduction

Sub-scheme on Formulation of GIS based Master Plan for 500 AMRUT Cities is one of the important reforms under AMRUT Mission, which has been approved in October 2015 as a 100% centrally funded sub-scheme. The objective is to **develop common digital geo-referenced base maps and land use maps using Geographical Information System (GIS)** in each AMRUT city to enable them to make more informed strategic decisions. The major components are:

- **Generation of Base Map & Thematic Maps and Urban Database Creation** at the scale of 1:4000 as per Design & Standards
- **Formulation of Master Plan:** Formulation of Master Plan of city as per State Town & Country Planning Act on the GIS base map and sector-wise data analysis. The implementing agency is State Mission Director/ULBs.
- **Capacity Building:** The training is at 3 levels, Implementing agency State Mission Directors
  - **Administrators level** –three days duration.
  - **Planning level** –two weeks duration.
  - **Operators and Technicians level** –four weeks duration

2.0   Progress

There are 34 States/UTs with 458 towns are on board under the Sub-Scheme. A total of Rs.392.07 Crores have been sanctioned and Rs. 88.03 Crore has been released.The financial progress till date is as follows:

Funds approved	392.07 Cr
Funds released to States in first installment (20%)	70.97 Cr
Funds released to States in Second installment (40%)	14.23 Cr
Funds released to NRSC	7.36 Cr
Total fund released	92.57 Cr
Utilization Certificate Received	20.25 Cr

The Geodatabase creation is one of the important components of the Sub-Scheme. Here National Remote Sensing Centre (NRSC), ISRO, Hyderabad is the major stakeholder in Geodatabase creation. NRSC is creating the Geodatabase for 242 cities (21 States/UTs) and rests of the States are creating the Geodatabase through the in-house/consultants. Till date, the draft base maps have been prepared for 168 cities and final maps delivered for 85 cities.

Under the component of Master Plan formulation, Kerala and Madhya Pradesh are formulating Master Plan in-house,while remaining other States/UTs are formulating through Consultants. Till date, the Draft Masters Plan have been prepared for 12 Cities and 4 Cities have submitted the final Master Plan.

Under the Capacity Building component there are 3 levels of training programs is being conducted at NESAC, BISAG, IISM and at IIRS for the State Government officials. Under this component, till date 696 officials have been trained.

Once the draft geo-database is delivered to states, the attributes have to be collected and vetting of draft map has to be done through ground survey. In this connection, TCPO is providing training on the request of State Governments. As on date, two training programmesat Bhopal and Thiruvananthapuram have already been organized.

3.0   Sub-Scheme in Puducherry

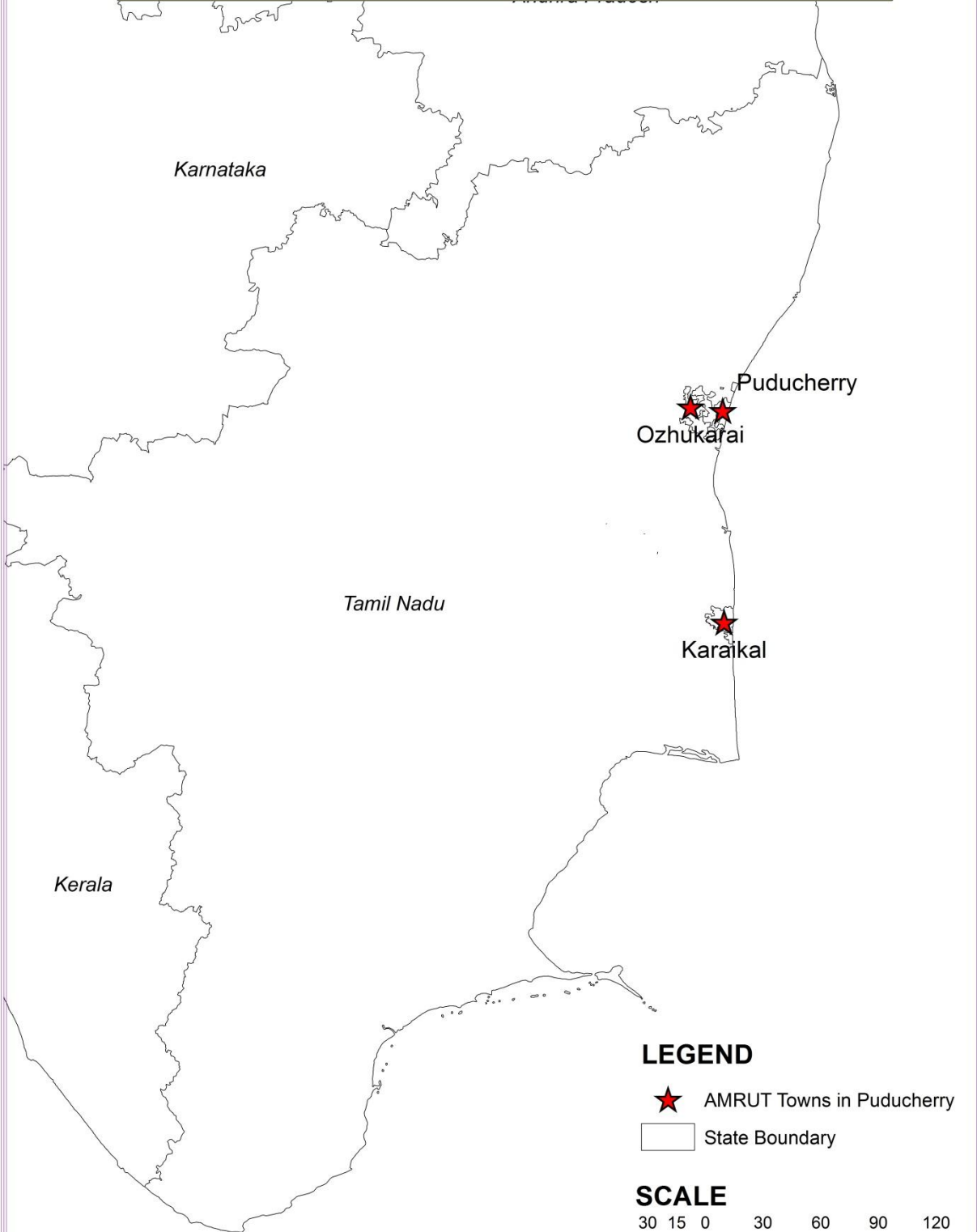In Puducherry, there are threecitiesunder the Sub-Scheme, viz.Puducherry, Ozhukarai and Karaikal.

Sl.No.	Name of Cities	Class of City	Area of Mapping (sq. km)	Applicable Area of mapping as per SAP
1	Puducherry	I	293	293
2	Ozhukarai	I		
3	Karaikal	I	199	199

The location of AMRUT cities of Puducherry is shown the given map.

CITIES UNDER AMRUT SUB-SCHEME

Andhra Pradesh

Karnataka

Puducherry

Ozhukarai

Tamil Nadu

Karaikal

Kerala

LEGEND

★   AMRUT Towns in Puducherry

☐   State Boundary

SCALE

30 15 0   30   60   90   120

Kilometers

3.1 Progress

Under the Sub-Scheme, Rs. 2.74 Crore has been approved for threetowns in Puducherry(Rs. 0.43 Crore is allocated to NRSC for Geodatabase creation and Rs.2.31 Crore is allocated UTAdministration for Master Plan formulation and Capacity Building). The first installments of Rs. 0.46Croreto State Government and Rs.0.08Crore to NRSC 20% as advance have been released in June, 2017 and February 2018. The details of funds allocated and released is as under:

Sl. No	Particulars	Amount in Rs. Crore
1	Total Funds Approved under Sub-Scheme	2.74
2	Funds allocated for State Govt. (MP and CB)	2.31
3	Funds allocated to NRSC (Geo-database creation)	0.43
4	Funds Released to State Govt. as IstInstallment (20%)	0.46
5	Funds released to NRSC as IstInstallment (20%)	0.08

NRSC has delivered the draft geo database of three AMRUT towns for vetting and attribute data collection, which is in process at UT level.

4.0 Training on Field Verification and Attribute Data Collection

UT Government of Puducherryvide letter no. 3536/TCP/FGISMP/2017-19/323 dated 12.02.2019 requested TCPO to impart training on field verification and attribute data collection the Geodatabase created by NRSC during 26&27February 2019 at Puducherry (Annexure-1). Accordingly, Shri. Mohd. Monis Khan, Town & Country Planner TCPO had visited Puducherry and imparted the training.

In the training program more than 20 officers/officials from the Department of Town and Country Planninghave participated comprising of Senior Town Planner, Commissioners, Town Planners, Junior Town Planners, Assistant Town Planners, Planning Assistants, Draftsman and Surveyors etc. from TCP Department and AMRUT towns. The details of the training program conducted are as follows:

The training Session was formerly inaugurated by Sh. Jaymurthi, Chairman, Puducherry Development Authority and MLA Puducherry Constituency and welcome address by Shri. P. Jawahar IAS, Commissioner cum Secretary, Department of Town and Country Planning and Housing.

Day 1. Briefing about Sub Scheme, Design & Standards and Vetting Procedures

After the formal inauguration sessiona detailed presentation was made by Shri. Mohd. Monis Khan, Town and Country Planner, TCPO on the Sub-Scheme on Formulation of GIS based Master Plan for AMRUT Cities comprising of overall physical and financial progress and status of Sub Scheme in Puducherry. In order to make familiarize the Design and Standards of Sub Scheme, second detail presentation of Design and Standards were also done by him in the second session. The presentation focuses on 8 layers, 69 major classes and 475 sub-classes along with the standards on remote sensing, spatial reference, geo-spatial feature contents and GIS data structure, quality assurance/quality check and Metadata.

In the afternoon session avery detailed step by step procedure of vetting and attribute data collection was explained by Shri. Mohd.Monis Khan TCP, TCPO to the officials of UT of Puducherry. Many officials have raised lot of doubts in vetting of base maps, which were clarified during the presentation itself.

Day 2. Field Visit

In the second day, all the participants were taken to field visit with one grid sheet of map, copy of the correspondent attribute table and simplified coding list provided by NRSC and deputed them in different locations in Puducherryfor sample vetting and attribute data collection.

Each participant hastaken part in the field trainingwith muchenthusiastically. Shri.Mohd. Monis Khan, TCP, TCPO and other senior officers have supervised the field visit and rectified the queries and issued there itself on the field. The teams returned to the training centre afternoon with their field sheets and some queries.

Post Lunch session was to discuss the filed experience and feedback. During the session, each participant had explained how they have done the vetting and attributes data collection; the issues and doubts faced by them on the field etc. were clarified by Shri. Mohd. Monis Khan, TCP, TCPO and explained the procedures once again.

The two days training program was ended with the vote of thanks by Shri. Sridharan, Senior Town Planner, UT of Puducherry.

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