



सत्यमेव जयते



## SVAMITVA

(SURVEY OF VILLAGES AND MAPPING WITH IMPROVED TECHNOLOGY IN VILLAGE AREAS)



## INTRODUCTION

Nearly 60% of Indian population lives in villages. Survey of rural land in India for settlement and record of rights are not done since the Britishers time. The owner of the property in the rural areas does not have any legal document for their property. **SVAMITVA Scheme** is a reformative step towards establishment of clear ownership of property in rural inhabited (abadi) areas, by mapping of land parcels using drone technology and issuing legal ownership cards (property cards/title deeds) to the property owners. This is the **first ever such exercise** to carry out Property survey of all villages across the country. **The Scheme is implemented** with the collaborative efforts of the Ministry of Panchayati Raj, State Revenue Department, State Panchayati Raj Department and Survey of India. Phases of Scheme are:-

**Phase I - Pilot Scheme** (April 2020-March 2021)

**Phase II** (April 2021 – march 2025) -Complete survey of all villages across the country



Provide an integrated property validation solution for rural India



Leveraging property as a financial asset by the citizens of rural India



Creation of accurate land records for rural planning.



Determination of property tax



Creation of survey infrastructure and GIS map that can be leveraged by any other department for their use.



Reduce property disputes and legal cases



# SURVEY Activities

## Pre- Survey Activities

**Permissions** to conduct the survey.

**Organise Gram Sabha** - to inform about the schedule of the survey and to sensitize about the surveying methodology and its benefits to the villagers.

**Identification and marking of Property** - Government assets, gram sabha land parcels, individual properties, roads, open plots etc

**Delineate property parcels** - Ground team and owners demarcate the property by chunna lines

**Finalisation of the boundary and survey area**

**Public Notification** - To notify the survey area

**Permission for flying Drones**

## Survey Activities

**Establishment** of CORS network

**Setting up** Ground control points

**Acquisition/Capturing** of drone images

**Processing of Drone data** – Image processing & Feature Extraction

**Data verification** and ground truthing

**Digital maps** – Base maps generation and preparation of digital maps

## Post Survey Activities

**Inquiry/Objection process** - Survey officials verify ownership of the land parcels, with the help of gram sabha, land owners, and review of existing documents

**Dispute Resolution**

**Issuance of Property Cards** - Distribution of property cards to village household owners (legal document of property ownership).

**Regular Update** of records and storage

**Training and capacity building** of government officials

# Continuous Operating Reference System (CORS)

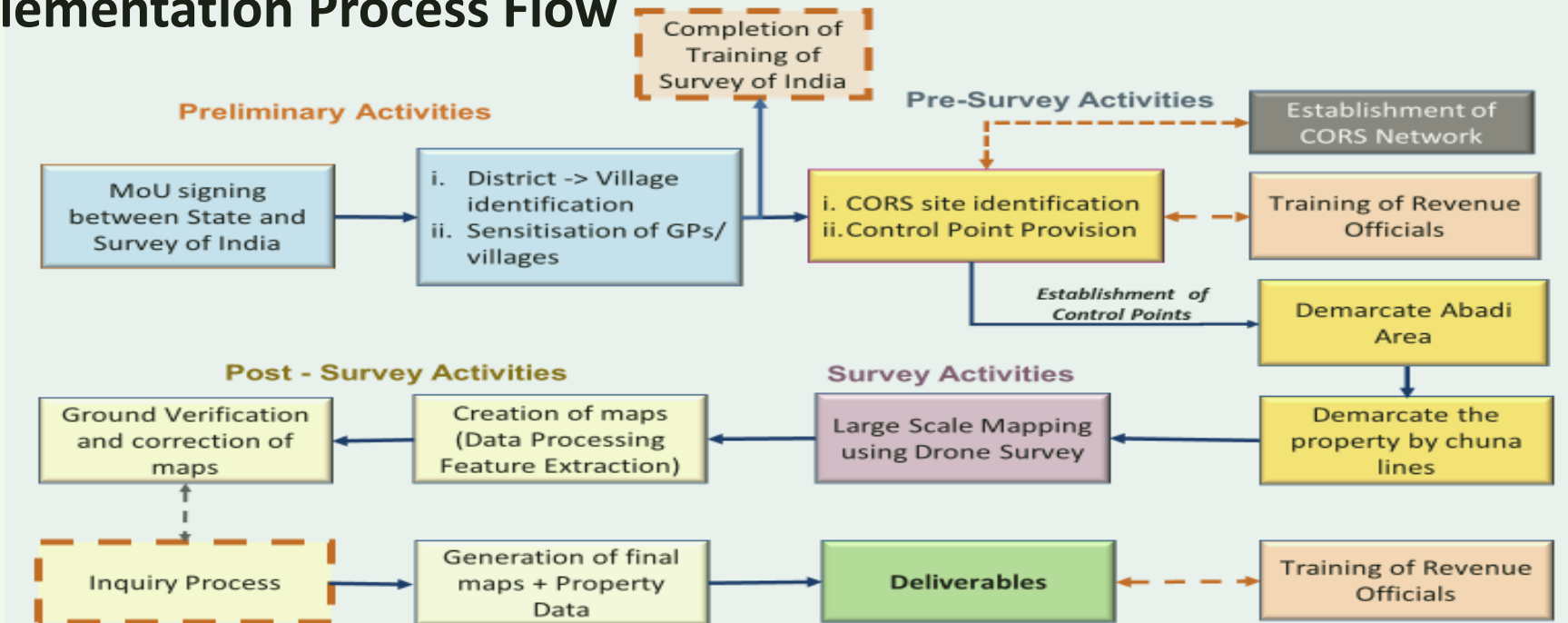
Network of reference stations that provide a virtual base station that allows access long-range high-accuracy Network RTK corrections

It Supports in

- Establishing Ground Control Points,
- Ground truthing and
- Demarcation of Lands, etc



## Implementation Process Flow





## Benefits of SVAMITVA

### Issuance of Property card

- i. Villagers can easily avail Home / Property loans.
- ii. Coverage of Properties by property tax.
- iii. Automated Tax collection.
- iv. Increase in liquidity of land parcels in the market
- v. Increase the financial credit availability to the village.

### Minimise Property Disputes

- i. Protection of Civil rights of villagers.
- ii. Prevention of the encroachment by identifying public land.
- iii. Exact area of revenue will be known
- iv. Records and map for taxation of the village, construction permits etc. will be available at Gram Panchayat

### Better quality GPDP

Using the maps created under survey for preparing GPDP.

Maps provide decision support system and helps in development and execution of planning activities.



**Ministry of Panchayati Raj  
Government of India**

<https://panchayat.gov.in/>