

GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE AND TECHNOLOGY  
DEPARTMENT OF SCIENCE AND TECHNOLOGY  
**RAJYA SABHA**  
**UNSTARRED QUESTION No.3186**  
ANSWERED ON 23/03/2021

**DIGITAL MAPPING OF THE COUNTRY**

3186. Shri K.C. Venugopal:  
Dr. Bhagwat Karad:

Will the Minister of SCIENCE AND TECHNOLOGY be pleased to state:

- (a) the present status of the project for digitally mapping of the entire country by the Survey of India;
- (b) the number of States/UTs covered under the scheme so far;
- (c) the details of funds allocated for the purpose; and
- (d) whether Government has set any deadline to finish the project by covering the States yet to be covered?

**ANSWER**

MINISTER OF HEALTH AND FAMILY WELFARE; MINISTER OF SCIENCE AND TECHNOLOGY; AND MINISTER OF EARTH SCIENCES  
(DR. HARSH VARDHAN)

(a) The present status of the project of digitally mapping of entire country by Survey of India (SoI) is as under:-

I. Departmental Activity to Map entire country [Total Area = 32.87 lac Sq.km approx. SoI Area of Responsibility (AoR) = 31.67 lac Sq.km approx and General Staff Geographical Section (GSGS) (Military Survey) AoR = 1.2 lac Sq.km]

1. Using High Resolution Satellite Imagery (HRSI): Work involves 05 stages as under:

Control Work completed	≈ 221282 Sq.Km
Geo-referencing completed	≈ 215471 Sq.km
Feature Extraction completed	≈ 117836 Sq.km
Ground Validation completed	≈ 11528Sq.km
Final National Topography Data Base ( NTDB)	≈ 2324 Sq.km

II. Projects:

1. National Hydrology Project (NHP): [Total Area = 8.0 Lac Sq.km]

i. Using High Resolution Satellite Imagery: Work involves 05 stages for which status is given as under:

Control Work completed	≈ 600256Sq.Km
Geo-referencing completed	≈ 493220 Sq.km
Feature Extraction completed	≈ 186840 Sq.km

Ground Validation completed ≈ 11254 Sq.km  
 Final NTDB ≈ 0 Sq.km

2. Using Unmanned Aerial Vehicle (UAV)/Drones: Work involves 03 stages for which status is given as under:

Data Acquired using Drone ≈ 10884 Sq.km  
 Data Processing ≈ 7762 Sq.km  
 Feature Extraction ≈ 941 Sq.km

3. Using UAV/Drones [for Village Abadi areas only]

Data acquired using Drone ≈ 33750 Villages  
 Data Processing ≈ 25537 Villages  
 Feature Extraction ≈ 21427 Villages  
 Final Map ≈ 2809 Villages

(b) Number of States/UTs covered under the schemes so far is as under:-

1. Departmental Activity to Map entire country using HRSI – Total 28 States, 08 Union Territories.
2. In the states of J&K, HP, Punjab, Uttarakhand, UP, Bihar, West Bengal, Assam, Odisha, Andhra Pradesh, Gujarat & Arunachal Pradesh.
3. In the States of Haryana, Karnataka & Andhra Pradesh.
4. In the states of Haryana, Uttar Pradesh, Uttarakhand, Madhya Pradesh, Karnataka, Maharashtra, Punjab, Rajasthan and Andhra Pradesh. [Mapping of Village Abadi areas only under SVAMITVA project].

(c) The details of funds allocated for the purpose is as under:-

Departmental Budget for FY 2020-21 under different heads for all departmental activities is Rs. 449.0 Crore.

Details of funds received for Extra Departmental Projects are as under:

Project	Total Cost in Rupees	Fund allotted so far in Rupees
National Hydrology Project	300 Crore	118.05 Crore
National Mission for Clean Ganga(NMCG)	86.64 Crore	41.00 Crore
Large Scale Mapping of Haryana	150 Crore	10.0 Crore
Large Scale Mapping of Karnataka	76 Crore	22.0 Crore
Large Scale Mapping of Andhra Pradesh	73.075 Crore	NIL
SVAMITVA Project	72.74 Crore	39.75 Crore

(d) The timeline for covering remaining states and completion of project is as under:-

The entire country will be covered mostly with HRSI and some areas with UAV/Drones as per the request of State Governments for Large Scale Mapping using UAV/Drones. The SOI will cover entire country likely by 2024 under Departmental activity using HRSI.

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