

**GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF SCIENCE & TECHNOLOGY
LOK SABHA
UNSTARRED QUESTION No. 666
TO BE ANSWERED ON 01/12/2021**

DIGITAL MAPPING OF THE COUNTRY

**666. SHRI PRATAPRAO JADHAV:
SHRI SANJAY SADASHIVRAO MANDLIK:
SHRI BIDYUT BARAN MAHATO:
SHRI SUDHEER GUPTA:
SHRI SHRIRANG APPA BARNE:**

Will the Minister of SCIENCE AND TECHNOLOGY विज्ञान और प्रौद्योगिकी मंत्री be pleased to state:

(a) whether the Department of Science and Technology has taken up the task of digital mapping of the entire country;

(b) if so, the details thereof along with the present status of the project for digital mapping of the entire country by the Survey of India;

(c) the details of funds allocated for the purpose;

(d) the time by which the remaining States are likely to be covered; and

(e) the time by which the project is likely to be completed?

ANSWER

**MINISTER OF STATE (INDEPENDENT CHARGE) OF THE MINISTRY OF
SCIENCE AND TECHNOLOGY AND EARTH SCIENCES
(DR. JITENDRA SINGH)**

विज्ञान और प्रौद्योगिकी तथा पृथ्वी विज्ञान मंत्रालय के राज्य मंत्री (स्वतंत्र प्रभार)
(डॉ. जितेंद्र सिंह)

(a) Yes, Sir.

(b) Survey of India (Sol) is not having any single project to map entire country. However, it is Department's endeavor to map entire country with Departmental mapping & under various projects taken together. The Present status of the project of digitally mapping of entire country by Survey of India is given below:

I. Departmental Activity to Map entire country [Total Area = 32.87 lac Sq.km approx. Sol Area of Responsibility (AoR) = 31.67 lac Sq.km approx.; 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	≈ 227804 Sq.Km
Geo-referencing completed	≈ 218249 Sq.km
Feature Extraction completed	≈ 139973 Sq.km
Ground Validation completed	≈ 11908 Sq.km
Final National Topographic Data Base(NTDB)	≈ 5453 Sq.km

II. Projects:

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

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

Control Work completed	≈ 698457 Sq.Km
Geo-referencing completed	≈ 696070 Sq.km
Feature Extraction completed	≈ 329300 Sq.km
Ground Validation completed	≈ 17328 Sq.km
Final NTDB	≈ 0 Sq.km

2. Using UAV/Drones: Work involves 04 stages for which status is given as under:

Data Acquired using Drone	≈ 26668 Sq.km
Data Processing	≈ 21342 Sq.km
Feature Extraction	≈ 8198 Sq.km
Ground Validation	≈ 2929 Sq.km

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

Data Acquired using Drone	≈ 75644 Villages
Data Processing	≈ 67403 Villages
Feature Extraction	≈ 62648 Villages
Final Map	≈ 7818 Villages

III. The details of States in which the project has started are as below:

1. (i). Departmental Activity to Map entire country using HRSI – All States / UTs.

2. (i). In the States/UT of J&K, HP, Punjab, Uttarakhand, UP, Bihar, West Bengal, Assam, Odisha, Andhra Pradesh, Gujarat & Arunachal Pradesh.

2. (ii). Large Scale Mapping project is being carried out in the States of Haryana, Karnataka & Andhra Pradesh.

2. (iii). SVAMITVA Project is being carried out 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]: Working is under progress and MoUs have been signed for Chhattisgarh, Gujrat, Kerala, Odisha, Jharkhand, Arunachal Pradesh, Ladakh(UT), Himachal Pradesh, Dadar & Nagar Haveli (UT), J&K (UT), Manipur, Assam, Mizoram, Tripura, Puducherry (UT), Andaman & Nicobar (UT) and Lakshadweep (UT).

(c) The details of funds allocated for the purpose:

Project	Total Cost	Fund allotted so far
National Hydrology Project	300 Crore	141.05 Crore
National Mission for Clean Ganga (NMCG)	86.64 Crore	41.00 Crore
Large Scale Mapping of Haryana	150 Crore	19.90 Crore
Large Scale Mapping of Karnataka	76 Crore	22.00 Crore
Large Scale Mapping of Andhra Pradesh	73.075 Crore	3.00 Crore
SVAMITVA Project	566.23 Crore	145.46 Crore

(d) The entire country will be covered mostly with HRSI and some areas with UAV/Drones. The SOI will likely to cover entire country by 2024 under Departmental activity using HRSI.

(e) The SOI will likely to cover entire country by 2024 under Departmental activity using HRSI.
