

SURVEY OF INDIA

DEPARTMENT OFF SCIENCE & TECHNOLOGY

SOI ACHIEVEMENTS DURING YEAR 2021

Under the leadership of Surveyor General of India and his visionary mission, followings are the achievements during last one year :-

1 Establishment of Continuously Operated reference Station (CORS) covering entire country:-

Total CORS stations have been established are 425 nos. Which is aprox 40% of the country

2 Launching of online map portal www.onlinmaps.surveyofindia.gov.in for providing online maps & data to its user

(a) Govt. Users = 75 (b) Private users = 12812

Maps Downloaded during last 04 months = 83339 maps (free of cost).

3 SVAMITVA YOJANA

Drone flying completed = 75000 villages.

4 Training & Capacity Building :-

(a) Departmental Trainees passed out = 383

(b) Trainees from other departments/ organisations passed out = 220

(c) Departmental trainees (undergoing courses) = 406

(d) Trainees from other departments (under going courses) = 16.

5 Geoid Modelling :- Observations in the state of Uttrakhand, Uttar Pradesh, Bihar, Jharkhand, West Bengal, Punjab, Hariyana and Goa completed.

6 High Resolution National Topographic Database (HRNTDB)

(a) Provision of Ground Control Points = 1042798 sq. Km completed.

(b) Geo- referencing = 990563 sq. Km completed.

(c) Grounf truthing = 36015 sq. Km

(d) Feature Extraction = 586619 sq. Km completed .

Final HRNTDB = 10360 sq. Km completed.

Digital Elevation Model (DEM) 3- 5 m resolution = 329300 sq km completed.

7 National Mission for Clean Ganga (NMCG)

(a) Data Acquisition = 30806.53 sq. Km

(b) Geoid Modelling of the project area = Uttar Pradesh, Bihar, Jharkhand, West Bengal has been completed.

8 National Hydrology Project (NHP) :-

(a) Generation of 0.5 M DEM = 71204 sq km

(b) Aerial Data Capturing = 37764.4 sq km

- (c) Data Processing = 17341.39 sq. Km
- (d) Digital data generation = 312584.00 sq.km
- (e) Generation of 3.5 m DEM and GIS data = 835742 sq. Km
- (f) Ground validation = 15851.47 sq.km

9 High Precision Levelling = 31078 km

10 Double Tertiary Levelling = 11162 km.

Large Scale Mapping (LSM)

- 1 **Andaman & Nicobar Island** :- 781.54/1000 sq km area captured. DEM of the area completed. Cadastre mapping digitisation = 209 villages completed.
2. **Haryana** :- Drone flying of 12971.0 sq km area , data processing of 10554.00 sq km and Feature extraction of 475.07 sq km area completed.
3. **Karnataka** :- Drone flying of 1689.04 sq km, Data processing of 1774.69 sq km and Feature Extraction of 348.0 sq km area completed.
4. **Andhra Pradesh** :- Drone flying of 4954.2 sq km , Data processing of 4007.3 sq km Feature Extraction of 2384.9 sq km area completed. Abaadi area of 1063 villages has been covered. Data processing of 909 villages and Feature Extraction of 869 Villages completed.