

**GOVERNMENT OF INDIA  
DEPARTMENT OF SPACE**

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**Sub: Monthly Summary of Department of space for the month of  
February 2022**

**PART- I (Unclassified)**

**1. Important policy decisions taken and major achievements during the month**

**A. Satellite Missions:**

**I. PSLV-C52 / EOS-04 Mission:**

PSLV-C52 carrying EOS-04, an earth observation satellite along with two co-passenger satellites, were successfully launched from Sriharikota on 14 February 2022. The performance of the satellite is satisfactory and as per design.

**II. PSLV-C53/ EOS-06:**

PSLV-C53 is scheduled to launch EOS-06, an earth observation satellite in the 2<sup>nd</sup> quarter of 2022. Launch vehicle and satellite integration and testing activities are in progress

**III. Small Satellite Launch Vehicle / EOS-02 :**

The first developmental flight of Small Satellite Launch Vehicle, SSLV-D1 is scheduled to launch EOS-02, an earth observation satellite in the 2<sup>nd</sup> quarter of 2022.

**B. Earth Observations:**

- **Agriculture Technology Project (for Govt. of Maharashtra):** Mapping of fortnightly rabi crop harvest progress is completed for 2021-22 at Agriculture division; district; taluka and circle levels. Soybean yield is simulated for 2021 at circle level under different management scenario for identifying suitable proxy using space inputs.
- **Crop Insurance Decision Support (for AICIL):** Generation of maps and statistics of cropped area for Potato and Mustard crops is in progress in West Bengal. Training was imparted to the officials of AICIL regarding internalization of methodology involved in Crop health index generation using remote sensing inputs.
- **Updated database for Decentralized Planning (for M/o Panchayati Raj):** Land use/ Land cover, settlement, drainage & water bodies mapped for 24,499 Gram Panchayats (out of 70,734) in Uttar Pradesh
- **Biodiversity characterization at community level in India using Earth observation data (for DBT):** Community level vegetation mapping for Biligirirangan hills is in progress.
- **Bhuvan Geoportal:** (i) Bhuvan Lite & Bhuvan Wiki Applications are released (ii) Customised mobile app based solution is deployed to track Swachh Trolleys in Urban local bodies (ULB's) of Telangana state.



- **Disaster Management Support Programme (for MHA, NDMA, SDMAs):**
  - **National Database on Emergency Management (NDEM):** Query module is designed as per the need of NDRF for extracting the list of cities/ districts through which a selected river flows through.
  - **Near Real Time Flood Mapping & Monitoring:** Cumulative flood inundation layers with Statistics for 15 flood & cyclone affected states is prepared and uploaded to Bhuvan and NDEM geoportals.
  - **Flood Hazard Atlas:** The flood hazard zonation atlases of West Bengal and Andhra Pradesh are printed and is ready for release. Preparation of district-wise flood hazard zonation maps for Uttar Pradesh is completed
  - **Support to Sentinel Asia:** Two emergency requests (Tonga Volcano & Thailand Oil Spill) were processed during this period under Sentinel Asia forum and 5 IRS satellite datasets were provided.
- **Satellite Data Acquisition and Dissemination:** 2,096 satellite passes were acquired and archived. About 26,500 satellite data products were downloaded through Bhuvan portal and 2,421 products were disseminated through data supply chain

#### C. Capacity Building:

1.	Two days virtual training programme on "Use of Agro-climatic Atlas for Land Suitability Studies and Land Use Planning" was organized for the officers of Govt. of Nagaland and Mizoram (09-10 & 15-16 Feb, 2022)	40 officers attended the trainings
2.	Program on "Unmanned Aerial Vehicle (UAV) Remote Sensing and its Applications" (21-25 Feb, 2022)	44 Trainees attended the program
3.	Course on "GNSS & LBS" (21 Feb- 04 Mar, 2022)	4021 participants from 716 institutions

#### D. International Cooperation:

- "Memorandum of Understanding" between India and Luxembourg on cooperation in the exploration and use of outer space for peaceful purposes was signed.
- Agreement between ISRO and NASA for Deep Space Network (DSN) support for ISRO's Chandrayaan-3 lunar lander and Chandrayaan-2 lunar orbiter missions was signed.



- The second phase of training of Bhutan engineers in connection with the realisation of the India- Bhutan joint satellite is completed.
  - QUAD Space Working Group meeting was held on February 03 and ISRO officials participated in the meeting in virtual mode.
  - Indian delegation comprising of ISRO and MEA officials has participated in the 59<sup>th</sup> session of Scientific and Technical Sub Committee (STSC) of UNCOPUOS, held in hybrid mode during February 07-18.
2. **No of Cases of “Sanction for Prosecution” pending for more than three months :- NIL**
3. **Particulars of cases in which there has been a departure from the Transaction of Business Rules or established policy of the Government: - NIL**
4. **Status of ongoing Swachhta Abhiyan (progress under Special Campaign)**
- The Department has formulated the Swachhta Action Plan for the year 2022 and under this Swachhta Pakhwada was celebrated from 01.02.2022 to 15.02.2022 across DOS/ISRO Centres/Units/Autonomous Bodies. The evaluation for the best maintained Centre/Unit/Autonomous Body is under process.
5. **Status of Rationalisation of Autonomous Bodies:**
- A review of the Autonomous Bodies under the Department is underway.
6. **Information on specific steps taken for the utilisation of the Space Technology based tools and applications in Governance and Development**
- **M/o Jal Shakti:** As part of the National Hydrology Project (NHP), daily actual evapotranspiration (AET) & daily simulated water balance components at national level and daily snow cover maps over Indian Himalaya were shared with MoJS
  - **M/o Rural Development:**
    - Under the Integrated Watershed Management Programme (IWMP/ WDC-PMKSY) for monitoring Watersheds using Geospatial Technologies, 1050 High resolution data satellite scenes of 2019-20 have been shared with respective States for monitoring the impact of watershed development interventions.
    - For the Pradhan Mantri Gram Sadak Yojana (PMGSY) programme, an exclusive Geo-portal is developed and deployed, with geo-tagged road network and other relevant tools.
  - **FSI (M/o Environment, Forests & Climate Change):** Daily near real time (satellite pass-wise) operational active forest fire detection (for entire India) are disseminated to FSI.



**7. Vacancy position of senior level appointments in the Ministry/Department including Autonomous Bodies/PSUs**

The detailed status regarding all the posts pertaining to Department of Space has been updated on AVMS. The status of updation of vacancy as on 28.02.2022 is as follows:

- Total number of posts required to be entered on AVMS: - 26
- Number of posts filled as on date: - 20
- Number of posts totally vacant as on date: - 06
- Number of posts under premature repatriation - 00
- Number of posts under additional charge arrangement: - 03
- Number of posts that would fall vacant during the next 06 months: -02

**8. List of cases in which ACC directions have not been complied with :- NIL.**

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