

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE**

Sub: Monthly Summary of Department of space for the month of April 2022

PART- I (Unclassified)

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

A. Satellite Missions:

I. PSLV-C53/ EOS-06:

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

II. 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 2nd quarter of 2022.

III. RLV-LEX Mission

First runway landing experiment [RLV-LEX] of Reusable Launch Vehicle – Technology Demonstrator is scheduled in the 2nd quarter of 2022 from Aeronautical Test Range, Chitradurga, Karnataka.

IV. CMS-02 Mission

NSIL is undertaking its “1st Demand Driven communication satellite mission” named CMS-02, which shall be launched by M/s Arianespace during 2nd quarter of 2022. The entire satellite capacity on-board CMS-02 will be leased to its committed customer M/s Tata Sky for meeting their DTH application needs.

B. Earth Observations:

- **Agriculture Technology Project (for Govt. of Maharashtra):** 20 years' of crop phenology information has been generated for Maharashtra. Statistical analysis for cropping intensity has been carried out for all the districts of Maharashtra for 2017-2021.
- **Crop Insurance Support (for AICIL):** Maps and statistics for potato crops in 21 districts of west Bengal were finalized for rabi 2021-22, and crop health monitoring indicators were computed at gram panchayat level. Training was imparted to AICIL management trainees for computation of crop health factor.
- **National Hydrology Project (NHP, for M/o Jal Shakti):** Calibration and validation of satellite derived Actual Evapotranspiration data has been initiated using ground based measurements from the flux tower network.

- **Biodiversity characterization at community level in India using Earth observation data (for DBT):** Validation of decadal changes to the regional forest landscape is in progress.
- **GeoMGNREGA (for MoRD):** Bhuvan-Yuktdhara planning portal is being integrated with MoRD's MIS, in addition to integration of various natural resources and non-natural resources management works
- **Bhuvan Geoportal:** (i) MoU signed with UIDAI towards Geospatial support for AADHAR Seva Kendra (ii) Training provided to NABARD officials on Bhuvan-NABARD Geoportal (iii) GeoMGNREGA mobile application has been updated with geo-fencing & multi-feature data capture capability, including multiple field photographs.
- **Disaster Management Support Programme (for MHA, NDMA, SDMAs):**
 - **National Database on Emergency Management (NDEM):** Module is designed and integrated for flash alerts from CWC, IMD and district-wise Now-Cast warnings
 - **Near Real Time Flood Mapping & Monitoring:** Pre-flood database for the flood season of 2022 is being prepared for all flood prone states.
 - **Forest Fire:** Multiple-daily detections of active forest fire have been done and disseminated to FSI and concerned States
 - Forest fire in Parvati valley, Himachal Pradesh, during 27th March – 1st April 2022 was monitored using satellite data
- **Satellite Data Acquisition and Dissemination:** 2,333 satellite passes were acquired and archived. About 21,100 satellite data products were downloaded through Bhuvan portal and 3,002 products were disseminated through data supply chain

C. Capacity Building:

1.	Advanced Geospatial technologies for Disaster Risk Reduction (DRR) (from 18-29 Apr, 2022)	1919 participants from 355 institutions
2.	Centre for Space Science and Technology Education in Asia and the Pacific (CSSTEAP) - 3 rd module involving Pilot-project at IIRS in the 25 th RS&GIS course	18 participants from 11 countries

D. International Cooperation:

- MoU between Department of Space, Government of India and US Department of Defence, for “cooperation in safety of spaceflight and the provision of space situational awareness services and information” was signed on April 11, 2022 during the visit of Indian Minister of External Affairs to USA.
- Implementing Arrangement between ISRO and NASA for cooperation on the Chandrayaan-3 mission was signed by ISRO on February 16, 2022 and by NASA on February 25, 2022.
- The first meeting of India- Columbia Joint Working Group (JWG) was held on April 07, 2022. Both sides discussed the cooperation opportunities in space technology applications for natural resources and capacity building.
- Chairman, ISRO/ Secretary, DOS delivered a talk on “Harnessing space technologies for social benefits: in the Space Generation Advisory Group “SG-India 2022’ event on April 23.

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 Rural Development:**

- Under the Integrated Watershed Management Programme (IWMP/ WDC-PMKSY) for monitoring Watersheds using Geospatial Technologies, 160 High resolution data satellite scenes have been shared with respective States for monitoring the impact of watershed development interventions and 800 summary reports were generated.

- For the Pradhan Mantri Gram Sadak Yojana (**PMGSY**) programme, Bhuvan-PMGSY Geoportal is updated with online digitization facility for roads / habitations
- Summary Reports on Watershed Development projects for Madhya Pradesh was submitted to **NABARD**.
- **MoEF&CC and CPCB:** Monitoring Agriculture Residue Burning- Daily report of active agriculture fires for 4 Indian states viz., Punjab, Haryana, Rajasthan and Uttar Pradesh is being generated and disseminated to MoEF&CC and CPCB.

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 30.04.2022 is as follows:

- Total number of posts required to be entered on AVMS: - 26
- Number of posts filled as on date: - 21
- Number of posts totally vacant as on date: - 05
- Number of posts under premature repatriation - 00
- Number of posts under additional charge arrangement: - 04
- 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.

* * *