

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE**

Sub: Monthly Summary of Department of space for the month of March 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):** Database for crop wise sowing progress statistics & crop wise harvest progress statistics at circle, taluk and districts levels for 4 kharif seasons (2017-22) are prepared for hosting on Maha-Agritech portal.
- **National Hydrology Project (NHP, for M/o Jal Shakti):** Establishment of field evapotranspiration observation network (for validating satellite derived evapotranspiration product) across country has been completed and database creation has been initiated for the measured data from the flux towers.
- **GeoMGNREGA (for MoRD):** Department has cleared the draft MoU for the Proposal for the next phase of Geospatial Support to MGNREGA, and sent to the Ministry

- **Watershed Management Programme (IWMP/ WDC-PMKSY, MoRD):** Discussion has been held with DoLR/MoRD, towards involvement of NRSC/ ISRO as an Implementing Partner in WDC2.0
- **Biodiversity characterization at community level in India using Earth observation data (for DBT):** Ground validation for assessing decadal changes to the regional forest landscape is in progress. Community level vegetation mapping for Biligirirangan hills is completed.
- **Bhuvan Geoportal:** (i) Designed & Developed APIs and geo-portal for spatial map with water spread information on daily, fortnightly and monthly basis along with report.
- **Disaster Management Support Programme (for MHA, NDMA, SDMAs):**
 - **National Database on Emergency Management (NDEM):** State-wise Disaster specific data is integrated into 3D visualization environment.
 - **Near Real Time Flood Mapping & Monitoring:** Pre-flood season base-level database has been finalized for the states Assam, Haryana, Gujarat, West Bengal, Punjab, Meghalaya, Arunachal Pradesh, Mizoram, Manipur, Tripura, Bihar, Tamil Nadu, Karnataka & Maharashtra.
 - **Support to International Charter/ Sentinel Asia:** 10 IRS data products were provided to support global disaster management support.
 - **Methodology developed** for identifying Long Duration Forest Fire events (LDFE) and is under validation.
- **Satellite Data Acquisition and Dissemination:** 2,156 satellite passes were acquired and archived. About 20,400 satellite data products were downloaded through Bhuvan portal and 2,421 products were disseminated through data supply chain

C. Capacity Building:

1.	Remote Sensing and Image Analysis (8 week certificate course from 17 Jan- 11 Mar,2022)	36 participants attended the training
2.	Hyperspectral and microwave RS techniques for geological studies (07-17 Mar, 2022)	2638 participants from 538 institutions
3.	"Basics of Remote Sensing and LIDAR" (Online customized training program for the officials of Airport Authority of India from 07-11 Mar, 2022)	20 officials of AAI attended the training
4.	Training on "RS & GIS applications in forestry and ecology" (22-26 Mar, 2022)	The officials of Tezpur University

D. International Cooperation:

- The second meeting of QUAD Space Co-operation Working Group (QSCWG) hosted by Australia was conducted in virtual mode on March 17.
- Foreign Minister of Mexico, H.E. Mr. Marcelo Ebrard Casaubon, during his official visit to India, met Chairman, ISRO/ Secretary DOS on March 31 at New Delhi and discussed on the ongoing interactions between ISRO and Mexican Space Agency (AEM).

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, 480 High resolution data satellite scenes of 2019-20 have been shared with respective States for monitoring the impact of watershed development interventions and 980 summary reports were generated.
- For the Pradhan Mantri Gram Sadak Yojana (PMGSY) programme, the Geoportal developed & deployed is demonstrated to NRIDA officials.
- Summary Reports on Watershed Development projects for Odisha, Andhra Pradesh, Telangana, Chhattisgarh were provided to NABARD.

- **FSI (M/o Environment, Forests & Climate Change- MoEF&CC):** Active forest fire detection & fire affected area assessment were carried out for Kodaikanal forest fires during 11th to 16th March 2022. A total of 19.7

sq.km of area was estimated to have been affected by the Kodaikanal fire during 11-16 March 2022.

- **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 31.03.2022 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: - 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.

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