

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE**

Sub: Monthly Summary of Department of Space for the month of January, 2019

PART- I (Unclassified)

1. Important Policy decisions taken and major achievements during the month,

A. Satellite Missions:

I. GSLV-F11 / GSAT-7A MISSION:

GSLV-F11 successfully launched GSAT-7A, communication satellite on December 19, 2018 from Satish Dhawan Space Centre SHAR, Sriharikota. The satellite is placed in its designated orbit and is performing satisfactorily.

II. PSLV-C44 / MICROSAT-R MISSION:

PSLV-C44, the first mission of PSLV-DL configuration successfully launched India's Microsat-R, an imaging satellite on January 24, 2019. Subsequently, the fourth stage (PS4) of the vehicle was moved to a higher circular orbit after two restarts, to establish an orbital platform for carrying out experiments. Kalamsat-V2, a student payload is the first to use PS4 as an orbital platform.

III. GSAT-31:

GSAT-31, a communication satellite is planned to be launched by a procured launcher from French Guinea. The spacecraft is scheduled for launch in the first week of February 2019 (the spacecraft was successfully launched by Ariane 5 VA-247 vehicle on February 06, 2019).

IV. PSLV-C45 / EMISAT:

The launch of PSLV-C45 carrying India's EMISAT satellite and 29 customer satellites is planned during 1st quarter of 2019. Preparatory activities for Launch are in progress.

V. GSLV Mk III M1 / CHANDRAYAAN-2 MISSION:

GSLV Mk III M1 will carry Chandrayaan-2, India's second mission to the Moon comprising of indigenous Lander (Vikram), Rover (Pragyaan) and Orbiter modules. Assembly, Integration and testing of these modules are in progress. Launch is planned in 2nd quarter of 2019.

B. Earth Observation

Sl.No.	Project/Program	Achieved in this month	Cumulative achievement
1.	Geo-MGNREGA (Geotags of activities / assets)	No. of Geotags	
		4 Lakhs in Phase-I (accepted) 0.94 Lakh in Phase-II	3.37 Crore in Phase-I 4.9 Lakhs in Phase-II
2.	IWMP-86,000 micro-watersheds – Geotags of Watershed Development Interventions	No. of Geotags& Impact Report	
		0.08 Lakh 480 Impact assessment reports under evaluation	9.86 Lakh 600 Impact assessment reports
3.	Housing for All (Urban) (Monitoring of construction of beneficiary houses)	No. of houses geotagged	
		1.28 Lakh	40.25 Lakh
4.	AMRUT Programme (Urban geospatial data for Master Plan preparation)	Very High Resolution Data: 20 Cities	190 Cities
		Ortho-Image: 14 Cities	105 Cities
		Geospatial Database: 41 in progress	19 Cities

I. Land Use/ Land Cover (23m resolution, 3rd Cycle)

- Satellite data interpretation and quality checking completed at national level. Generation of statistics is in progress.

II. Land Use/ Land Cover (56m resolution, 15th Cycle)

- Kharif season cropped area generation has been completed and its validation is in progress.

III. National Hydrology Project

- Product generation chain for net radiation and soil heat flux (clear sky product) established, towards development of satellite based Regional Evaporative Flux monitoring system.

IV. Forecasting the Surface reaching solar radiation and wind speed

- Methodology established for generating day-ahead forecast of surface reaching solar radiation data and the output is being sent to NTPC at 15 min. interval, on daily basis.

V. Sea Ice Advisory for Indian Antarctic Expedition team

- An algorithm and tool for automatic generation of sea ice advisory have been developed and provided to the ongoing 38th Indian Antarctic expedition for safer ship navigation. Daily sea ice advisory products were generated during January 19 to 22, 2019

VI. Indian Summer Monsoon Onset and Tropopause parameters

- Over 10 years of radiosonde data revealed that tropopause height decreases and temperature increases after the onset of Indian Summer Monsoon

VII. Geoportals:

Bhuvan & MOSDAC

- Bhuvan thematic& disaster management services, along with FTP, User Registration and Central Authentication services, were migrated from Balanagar to Shadnagar data centre, and all services were deployed with required segregation for performance improvement.
- AWIFS 2016 ortho-rectified images were generated for full India 1472 ortho-rectified tiles were updated on Bhuvan portal for free download
- A lighter version of Bhuvan, called "Bhuvan Lite" is developed for mobile platforms. Final phase of testing is in progress.
- MOSDAC has been migrated on to cloud based platform

VIII. Disaster Management Support program:

Decision Support Centre Activities

- Draft flood hazard atlas was prepared for Odisha state. Awaiting feedback from Odisha

Integrated Control Room for Emergency Response (ICR-ER)

- RFP document for ICR-ER was prepared. A new Mobile Application (NDEM Lite) is developed

International Charter/Sentinel Asia

- Five IRS datasets were provided through Sentinel Asia to address Tsunami (Indonesia) and for flood (Sri Lanka) events.
- Charter processing platform prototype is under development. This was briefed in the Charter board meeting held on 23 January, 2019. IT is slated to demonstrate the system during April, 2019, as part of Charter board meeting.

C. Capacity Building

Category	No. Of Participants
Short course on remote sensing with special emphasis on digital image processing	22
Remote sensing and image interpretation	07
Geospatial inputs for enabling master plan formulation under AMRUT sub-scheme	37
Coastal and ocean management training programme	31
Hyperspectral remote sensing and applications (in-progress)	1,896

D. International Cooperation:

- MoU between Government of the Republic of India and Government of the Republic of Finland on Cooperation in peaceful uses of outer space was signed on January 09, 2019.
- ISRO's UNISpace Nanosatellite Assembly & Training (UNNATI) capacity building programme was inaugurated by Dr. Jitendra Singh, Honorable Minister of State (Space) on January 17, 2019 at URSC, Bengaluru. 30 participants from 17 countries are attending as the first batch of this programme.
- RFP inviting partners for preparing bidding proposal for hosting 3rd International Astronautical Congress (IAC) in 2022 in India was floated. Technical evaluation for selection of party is completed.

2. Compliance of CoS Decisions:

No of CoS decisions pending for compliance	Proposed action plan/time lines for compliance of CoS decisions	Remarks
180/4 3942/12 3923/14 4075/1 4120/3	Under implementation Status is being uploaded on a time bound manner in the online portal of e-Samiksha.	—

3. No of Cases of "Sanction for Prosecution" pending for more than three months :- NIL**4. Particulars of cases in which there has been a departure from the Transaction of Business Rules or established policy of the Government: - NIL****5. Status of implementation of e-Governance**

Total No. of files	Total No. of e-Files
733	380

6. Status of Public Grievances:

No. of Public grievances readdressed during the month	No. of Public Grievances pending at the end of the month.
77	272

7. Information on the specific steps taken by the Ministry/Department for utilization of the Space Technology based tools and applications in Governance and Development.

- 127 (out of 157) Space Technology projects are progressing as per schedule.

8. Status of Compliance of ACC's directions on ACC Vacancy Monitoring System.

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 31.01.2019 is as follows:

- Total number of posts required to be entered on AVMS: - 19
- Number of posts filled as on date: - 18
- Number of posts totally vacant as on date: - 0
- Number of posts under additional charge arrangement: - 0
- Number of posts that would fall vacant during the next 06 months: - 1

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