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Government of India
Department of Space

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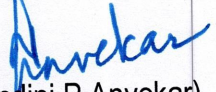
March 14, 2019

OFFICE MEMORANDUM

**Subject : Monthly Summary of the Department of Space for the month of February
2019- reg**

The undersigned is directed to circulate herewith a copy of the monthly summary of the Department of Space for the month of February, 2019 for information.

Yours faithfully,


(Nandini P Anvekar)
Director (Budget)

Encl: As above

To:
All Members of Council of Ministers

Copy to : Shri. Bhaskar Dasgupta, Director, Cabinet Secretariat

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE**

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

PART- I (Unclassified)

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

A. Satellite Missions:

I. 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.

II. GSAT-31:

GSAT-31, a communication satellite was successfully launched by Ariane 5 VA-247 vehicle on February 06, 2019, from French Guinea. The performance of the satellite till now has been satisfactory.

III. PSLV-C45 / EMISAT:

The launch of PSLV-C45 carrying India's EMISAT satellite and 29 customer satellites is planned during April 2019. Launch preparations are in progress.

IV. 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

S.N	Project/Program	Achieved in this month	Cumulative achievement
1.	Geo-MGNREGA (Geotags of activities / assets); for MoRD	No. of Geotags	
		3 Lakhs in Phase-I (accepted) 1.1 Lakh in Phase-II	3.40 Crore in Phase-I 6.0 Lakhs in Phase-II
2.	IWMP-86,000 micro-watersheds – Geotags of Watershed Development Interventions; for MoRD	No. of Geotags& Impact Report	
		0.11 Lakh 500 Impact assessment reports are under evaluation	9.97 Lakh 750 Impact assessment reports delivered
3.	Housing for All (Urban) (Monitoring of construction of beneficiary houses); for MoHUA	No. of houses geotagged	
		4.6 Lakh	44.85 Lakh
4.	AMRUT Programme (Urban geospatial data for Master Plan preparation); for MoHUA	Very High Resolution Data: 5 Cities	195 Cities
		Ortho-Image: 10 Cities	115 Cities
		Geospatial Database: 11 Cities	30 Cities

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

- Satellite data interpretation and quality checking completed at national level. National Land use / Land cover atlas (using 2015-16) data is prepared.

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

- Kharif season Land use / Land Cover data analysis completed. 136 AWiFS orthoimages were processed.

III. Crop Acreage assessment – Govt. of Madhya Pradesh

- Soybean crop acreage has been estimated to 4.44 Mha in Madhya Pradesh during 2018-19, using 100 satellite data scenes, covering 22 districts.

IV. National Hydrology Project – MoWR, RD&GR

- Modified Priestley Taylor (MPT) method for evaporative flux estimation over India has been implemented. Net radiation, soil heat flux and actual evapo-transpiration products, for clear sky condition, for first fortnight of January 2019, were generated using satellite data inputs.
- Towards developing spatial snow melt runoff products, temporal Net shortwave and Net long-wave radiations are being computed for establishing relationship between Land Surface Temperature and Air Temperature.

V. Above Ground Forest Biomass - MoDONER

- Forest above ground biomass map of Meghalaya state was prepared using multi-date L-band SAR data and insitu measurement. Results are being validated in collaboration with Meghalaya state forest department.
- Preparation of Forest above ground biomass map of Assam is in progress.

VI. Geoportals:

Bhuvan, MOSDAC& VEDAS

Bhuvan

- Secretary, DoLR, visited NRSC on 08 Feb 2019, and Bhuvan portal & IWMP Bhuvan Srishti platform were demonstrated.
- Bhuvan quick links' performance increased from 57% to 84% as per GT Metrix performance tool.

MOSDAC

- Number of new users registered: 92 (cumulative 4759 users)
- High resolution (6.25 km) ocean surface wind vector products, derived using SCATSAT-1 data are released on MOSDAC.

VEDAS

- Web GIS based application for visualization of Indian coral reef regions, along with overlay layers and Sea Surface Temperature anomaly, developed and published in VEDAS Portal

VII. Disaster Management Support program:

- Regular forest fire detections were carried out during the reporting period, and fire alerts pertaining to Bandipur Forest Fire were provided to Karnataka State Forest Department.
- Burnt area was assessed as around 4,400 Ha, using IRS Satellite data
- In order to provide early warning on Rip Currents (strong, localized sea surface currents, moving from shore into the sea) an automated, experimental, Rip Current forecasting system has been developed, using satellite data inputs and tidal model. This system is presently issuing 6-hourly Rip Current related warning for 175 beaches of India.

ICR-ER & NDEM:

- For establishment of Integrated Control Room for Emergency Response (ICR-ER), RFP prepared for Civil and Computational Infrastructure. Additional requirements from MHA are under consideration
- Lightning and thunder storm alerts from IMD are fetched and products are generated at 15 min. interval and integrated into NDEM portal.

International Charter/Sentinel Asia

- Prototype for Charter Operations System of International Charter prototype is under development.
- ISRO participated in the deliberations of the 9th Steering Committee meeting of Sentinel Asia at Si Rach7a Bangkok

VIII. Data Acquisition and Dissemination Services

- 2,769 satellite passes (1,907 IRS and 862 Foreign) were acquired and archived.
- A total of 18,565 datasets were processed and 2029 special products were generated, and used for crop analysis, watershed development programme and other user projects.
- 578,119 data products were disseminated, including 8,486 products through data supply chain, and 5,69,633 as free downloads through MOSDAC and Bhuvan

C. Capacity Building

Training program	No. Of Participants
PG (M.Tech./M.Sc./PG Diploma) Courses in RS & GIS (currently pursuing)	127
Coastal and ocean management Training Programme	31
Remote Sensing - Digital Image processing	22
Remote Sensing and Image interpretation	7
Distant learning program – Hyperspectral RS & applications	1893

- Space technology Incubation centre at NIT Jalandhar was inaugurated.

D. International Cooperation:

- Implementing Arrangement (IA) between ISRO and NASA for Cooperation in Chandrayaan-2 Mission was signed.
- ISRO delegation participated in the 56th session of scientific and Technical sub-committee of UN-COPUOS at Vienna during February 11-22, 2019.

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	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
800	415

6. Status of Public Grievances:

No. of Public grievances readdressed during the month	No. of Public Grievances pending at the end of the month.
92	212

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 28.02.2019 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: - 03
