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Government of India
Department of Space

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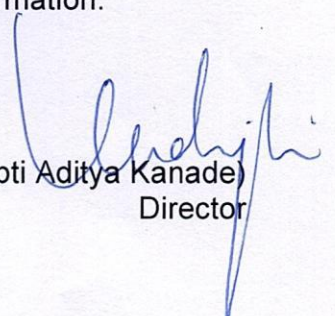
October 28th, 2022

OFFICE MEMORANDUM

Subject: Monthly Summary of the Department of Space for the month of September, 2022– reg.

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The undersigned is directed to circulate herewith a copy of the monthly summary of the Department of Space for the month of September, 2022 for information.


(Dipti Aditya Kanade)
Director

Encl: As above

To:
All Members of Council of Ministers

Copy to : Shri. Bhaskar Dasgupta, Joint Secretary, Cabinet Secretariat

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE**

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

PART- I (Unclassified)

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

A. Satellite & Launch Vehicle Missions:

I. LVM3-M2/OneWeb India-1 Commercial Mission

The first dedicated commercial mission of GSLV MkIII (LVM3-M2) is tentatively scheduled on 21st Oct, 2022. The mission will launch multiple communication satellites in a single launch for OneWeb.

II. PSLV-C54/EOS-06 Mission:

PSLV-C54 is scheduled to launch EOS-06, an earth observation satellite in the 4th quarter of 2022. Various activities pertaining to spacecraft integration and tests are in advanced stages of progress for the scheduled launch.

III. RLV-LEX Mission

First runway landing experiment [RLV-LEX] of Reusable Launch Vehicle – Technology Demonstrator is scheduled in the 4th quarter of 2022 from Aeronautical Test Range, Chitradurga, Karnataka.

B. Earth Observations:

- **Agriculture Technology Project (for Govt. of Maharashtra):** First estimate of 2022-23 kharif sown area is being generated along with district-wise statistics. Crop area affected due to heavy rainfall during July and August 2022 was assessed for the whole state. A framework is proposed for technology-based yield estimation for soybean, cotton and paddy crop yield in Maharashtra using crop growth model and machine learning approach for correlating CCE analysis.
- **Crop Insurance Support (for AICIL):** Crop mapping of Aman Paddy for all districts of West Bengal for kharif 2021-22 initiated.
- **National Hydrology Project (NHP, for M/o Jal Shakti):** Fortnightly and monthly average & maximum composite actual evapotranspiration (AET) maps are generated and average AET composite products are made available on Bhuvan - NHP portal for visualization and download.
- **Urban Waterbody Information System (UWais for MoH & UA):** UWais portal was launched by Hon'ble Minister for H&UA .
- **GeoMGNREGA (for MoRD):** Rule sets are evaluated on Yuktdhara planning portal for semi-automated planning towards generation of assets/ activities based on inputs such as natural resources, terrain etc.

- **Disaster Management Support Programme (for MHA, NDMA, SDMAs):**
 - **National Database on Emergency Management (NDEM):** (i) API is developed for users to download data from NDEM. Interface is also integrated in NDEM for the users to generate the API url for existing data sets
 - **Near Real Time Flood Mapping & Monitoring:**
 - ❖ Flood Hazard Atlases of Andhra Pradesh and West Bengal are released by Hon'ble Ministers of State for Home Affairs on NDMA formation day
 - ❖ Floods in Andhra Pradesh, Telangana, Maharashtra, Bihar, Uttar Pradesh, Uttarakhand, Odisha, Rajasthan & Madhya Pradesh were monitored and mapped. About 46 flood maps and 13 value added products were prepared using satellite datasets and provided to the concerned.
 - **Support to Sentinel Asia:** Provided 12 IRS datasets for emergency requests from Sentinel Asia pertaining to floods and landslides (Pakistan & Philippines)
 - **Flood Forecasting System for Godavari:** Heavy flood discharge and the flood inundation in the Godavari River was forecast in the second week of September 2022 and the alerts were provided to State DM authorities for decision support
- **Satellite Data Acquisition and Dissemination:** 2,656 satellite passes were acquired and archived. About 24,000 satellite data products were downloaded through Bhuvan

C. Capacity Building:

1.	Four weeks customised training programme- "Geospatial Inputs for Enabling Master Plan Formulation" (05 - 30 Sept, 2022)	For 25 AMRUT Officials
2.	'Remote Sensing & Digital Image Analysis' (22 Aug - 16 Sept, 2022)	2414 participants from 562 institutions
3.	Course on 'Fundamentals of RS7GIS Technology (in Hindi)' (14-28 Sept, 2022)	4871 participants from 610 institutions
4.	Course on 'Overview of Global Navigation Satellite System' (14-28 Sept, 2022)	5635 participants from 681 institutions

D. International Co-operation:

- Mr. Enrico Palermo, Head of Australian Space Agency (ASA) visited ISRO Headquarters on September 06, 2022 and had a meeting with Secretary, DOS/ Chairman, ISRO.
- Director General of Glavkosmos visited ISRO HQ and had a meeting with Secretary, DOS/ Chairman, ISRO on September 06, 2022.
- Secretary, DOS/ Chairman, ISRO had a bilateral meeting with Mr. Bill Nelson, NASA Administrator on the side-lines of IAC 2022 at Paris. Both sides discussed the ongoing cooperation in Chandrayaan-3, HSP, Professional Exchange and NISAR joint mission.
- A five-member ISRO delegation led by Director, ISTRAC visited Vietnam during September 11-15, 2022. The delegation conducted inspection visits to ISRO ground station site and also to the facilities of identified Vietnam vendors' project sites.
- A DOS delegation, comprising of 25 members, led by Secretary, DOS/ Chairman, ISRO, including Chairman, IN-SPACE and CMD NSIL participated in the 73rd International Astronautical Congress (IAC-2022) at Paris Convention Centre, Paris during September 18-22, 2022.

2. No of Cases of 'Sanction of 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 Abhiyan 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. A Sub-Committee has been constituted for evaluation of the activities carried out across DOS/ISRO Centres/Units/ABs/CPSEs during the Swachhta Pakhwada 2022. The evaluation for the best maintained Centre/Unit/Autonomous Body is under process.
- In connection with Swachh Surakshit Sagar Campaign, a communication regarding the event of International Coastal Clean-up day on 17.09.2022 and the list of 75 beaches has been received from the Ministry of Earth Sciences (MoES).
- The Swachh Sagar Surakshit Campaign at Krishnapatnam beach, Nellore was inaugurated by Shri KVN Chakradhar Babu, District Collection, Nellore. Thirteen members from Satish Dhawan Space Centre (SDSC-SHAR) were participated and around 600 persons participated in the said event.

- A team of 15 members from Vikram Sarabhai Space Centre (VSSC), Liquid Propulsion Systems Centre (LPSC) and Indian Institute of Space Science and Technology (IIST), Thiruvananthapuram were participated in the Swachh Sagar Surakshit Sagar Campaign on International Clean-up day on 17.09.2022 at the Kovalam beach, Thiruvananthapuram, Kerala.

5. Status of Rationalisation of Autonomous Bodies:

EMC has recommended that SCL and NARL be governmentalized out of which SCL has been transferred to MeitY during the year 2021-22. The recommendations of the committee in respect of NARL is under review.

Action is being initiated to bring all the AB's under the Department namely, IIST, PRL, NARL & NESAC under Treasury Single Account before the end of financial year 2022-23.

6. Information on specific steps taken for utilisation of the Space Technology based tools and applications in Governance and Development:

Support to Ministries/ Departments

- **M/o Rural Development:** Under the Integrated Watershed Management Programme (IWMP/ WDC-PMKSY) for monitoring Watersheds using Geospatial Technologies, 1600 satellite images were provided to the states. 4,000 locations of watershed development interventions have been geotagged (cumulative 16.61 lakh geotags) and 590 summary reports were generated.
- **Ministry of Environment Forest and Climate Change and Central Pollution Control Board:** Daily reporting of active agriculture fires initiated for kharif 2022 season. Reports are disseminated for 4 Indian states viz., Punjab, Haryana, Rajasthan and Uttar Pradesh
- **MoH & UA:** Final version of urban geospatial database for 2 AMRUT cities have been delivered (cumulative completion: 212 / 238).

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 30.06.2022 is as follows:

- Total number of posts required to be entered on AVMS: - 24
- Number of posts filled as on date: - 20
- Number of posts totally vacant as on date: - 04
- 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: -00

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