

**GOVERNMENT OF INDIA  
DEPARTMENT OF SPACE**

**LOK SABHA**

**UNSTARRED QUESTION NO. 2960**

**TO BE ANSWERED ON WEDNESDAY, DECEMBER 20, 2023**

**CENTRES OF ISRO**

**2960. SHRI NIHAL CHAND:**

**Will the PRIME MINISTER be pleased to state:**

- (a) the number of centres of Indian Space Research Organisation (ISRO) in the country at present State and Union Territory-wise;**
- (b) the position of India in comparison to other countries in the fields of space research;**
- (c) whether the Government proposes to establish new space research centres in other parts of the country;**
- (d) if so, the details thereof; and**
- (e) the progress made in the field of Indian Space Research during the last five years?**

**ANSWER**

**MINISTER OF STATE IN THE MINISTRY OF PERSONNEL, PUBLIC  
GRIEVANCES & PENSIONS AND IN THE PRIME MINISTER'S OFFICE**

**(DR. JITENDRA SINGH):**

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- (a) Indian Space Research Organization has its Centers/Units spread throughout the country with following distribution:**

<b>Centres/Units/Liaison Office</b>	<b>State</b>	<b>Number</b>
<b>Regional Remote Sensing Centre [RRSC] (West)</b>	<b>Rajasthan</b>	<b>3</b>
<b>Solar Observatory</b>		
<b>Infrared Observatory</b>		
<b>Space Applications Centre</b>	<b>Gujarat</b>	<b>2</b>
<b>Physical Research Laboratory</b>		
<b>Delhi Earth station</b>	<b>Delhi</b>	<b>2</b>
<b>RRSC [North]</b>		
<b>Indian Institute of Remote Sensing</b>	<b>Uttarakhand</b>	<b>1</b>
<b>ISTRAC Ground Station</b>	<b>Uttar Pradesh</b>	<b>1</b>
<b>RRSC [East]</b>	<b>West Bengal</b>	<b>1</b>
<b>North Eastern Space Applications Centre (NESAC)</b>	<b>Meghalaya</b>	<b>1</b>
<b>RRSC [Central]</b>	<b>Maharashtra</b>	<b>1</b>
<b>Master Control Facility (Bhopal)</b>	<b>Madhya Pradesh</b>	<b>1</b>
<b>National Remote Sensing Centre [NRSC]</b>	<b>Telangana</b>	<b>1</b>
<b>Satish Dhawan Space Centre [SDSC]</b>	<b>Andhra Pradesh</b>	<b>2</b>
<b>National Atmospheric Research laboratory [NARL]</b>		
<b>U R Rao satellite Centre [URSC]</b>	<b>Karnataka</b>	<b>6</b>

<b>Centres/Units/Liaison Office</b>	<b>State</b>	<b>Number</b>
<b>Human Space Flight Centre [HSFC]</b>		
<b>Laboratory for Electro optic systems [LEOS]</b>		
<b>ISRO Telemetry , Tracking and command network [ISTRAC]</b>		
<b>RRSC (South)</b>		
<b>Master Control Facility [MCF]</b>		
<b>Vikram Sarabhai Space Centre [VSSC]</b>	<b>Kerala</b>	<b>4</b>
<b>Liquid Propulsion Systems Centre [LPSC]</b>		
<b>ISRO Inertial Systems Unit [IISU]</b>		
<b>Indian Institute of Space Science and Technology [IIST]</b>		
<b>ISRO Propulsion Complex [IPRC]</b>	<b>Tamil Nadu</b>	<b>1</b>
<b>Down range Station</b>	<b>Andaman &amp; Nicobar Islands</b>	<b>1</b>

**(b) India is the fifth amongst spacefaring nations having end-to-end capabilities in space research and development, including the capability to launch from our own land and operate programs of earth observation, satellite communication, meteorology, space science & navigation and ground infrastructure. Now, NewSpace**

**industries are also emerging at fast pace after space sector reforms.**

**(c) & (d)**

**The existing centres of ISRO in various parts of country are making sufficient contributions towards R&D in space sector. To support NGEs for small satellite launches a new launch complex at Thoothukudi is proposed.**

**(e) During the last five years, significant progress has been made in the Indian Space Research sector. Some of the major achievements are listed below:**

- India's second mission to Moon, Chandrayaan-2 was successfully launched on July 22, 2019 on-board GSLV Mk III-M1. Chandrayaan-2 Orbiter is providing valuable science data for the research community.**
- The launch of PSLV-C48/ RISAT-2BR1 in December, 2019 marked the 50<sup>th</sup> launch of PSLV, the workhorse launch vehicle.**
- On June 26, 2020, the Government of India announced Space Sector Reforms – a major transformation of Indian Space Sector with enhanced participation of private players in Indian space programme and playing key roles to boost India's market share in Global Space Economy.**
- Setting up of Indian National Space Promotion and Authorisation Centre (IN-SPACe) and enhancing the role of New Space India Limited (NSIL) are the two major thrust areas in the Reforms. IN-SPACe Headquarters at Ahmedabad was inaugurated by the Hon'ble Prime Minister in June, 2022.**

- **LVM3 (GSLV MkIII) M2/OneWeb India-1 Mission was successfully accomplished on 23<sup>rd</sup> October 2022.**
- **Launch of Vikram-S (Prarambh mission), a suborbital launch vehicle from M/s. Skyroot Aerospace Pvt. Ltd., Hyderabad, was accomplished successfully on 18<sup>th</sup> November 2022.**
- **First private launchpad & mission control center established by M/s. Agnikul Cosmos Pvt. Ltd., Chennai in ISRO campus at SDSC, SHAR on 25<sup>th</sup> November 2022.**
- **On February 10<sup>th</sup>, 2023, the successful flight of Small Satellite Launch Vehicle (SSLV – D2) took place, launching three satellites – EOS-07, Janus-1 and AzaadiSAT-2.**
- **On March 7<sup>th</sup>, 2023, controlled re-entry experiment for the decommissioned Megha-Tropiques-1 (MT-1) satellite was carried out successfully, with final impact in the Pacific Ocean, demonstrating the nation's continued efforts towards ensuring the long-term sustainability of outer space activities.**
- **LVM3 M3/OneWeb India-2 Mission was successfully accomplished on 26<sup>th</sup> March, 2023, placing 36 OneWeb satellites into their intended orbit. With this, NSIL successfully executed its contract to launch 72 satellites of OneWeb to Low Earth Orbit.**
- **Reusable Launch Vehicle Autonomous Landing Mission (RLV LEX) was successfully demonstrated at the Aeronautical Test Range (ATR), Chitradurga, Karnataka on 2<sup>nd</sup> April, 2023.**
- **GSLV-F12/NVS-01 mission was successfully accomplished on 29<sup>th</sup> May, 2023. GSLV deployed the NVS-01 navigation satellite, the first of the second-generation satellites**

**envisaged for the Navigation with Indian Constellation (NavIC) service, into a Geosynchronous Transfer Orbit.**

- **LVM3-M4 successfully launched the Chandrayaan-3 Spacecraft on 14<sup>th</sup> July, 2023.**
- **On 23<sup>rd</sup> August, 2023, Chandrayaan-3 lander, *Vikram*, successfully soft-landed on the Moon. Subsequently, the rover, *Pragyan*, ramped down on the lunar surface. Over the next few days, several experiments, such as measurement of near-surface plasma content, presence of mineral elements, temperature profile of the lunar topsoil, etc. were conducted by the on-board payloads.**
- **On September 02, 2023, Aditya-L1 spacecraft – India's first solar observatory – was launched on board PSLV C57. The spacecraft underwent a series of manoeuvres and is currently on its way to the Sun-Earth Lagrange Point 1(L1).**
- **The first developmental flight of Test Vehicle (TV-D1) was successfully accomplished with the in-flight abort demonstration of the Crew Escape System (CES) on October 21, 2023 from FLP, SDSC, Sriharikota. TV-D1 Crew Module was safely recovered from sea with the help of Indian Navy and transported back to ISITE, Bengaluru.**

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