O.I.H.

GOVERNMENT OF INDIA

DEPARTMENT OF SPACE

LOK SABHA

UNSTARRED QUESTION NO. 2279

TO BE ANSWERED ON WEDNESDAY, AUGUST 02, 2023

CENTRES OF ISRO

2279. 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/UT-wise;

(b) India's position in the field of space research as compared to other countries;

(c) Whether the Union Government is contemplating to open new space research centre in other parts of the country also;

(d) If so, the details thereof, State-UT wise; and

(e) The progress made by India in the field of 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):

****

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

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

Centres/Units/Liaison Office	State	Number
National Atmospheric Research laboratory [NARL]		
U R Rao satellite Centre [URSC]	Karnataka	6
Human space flight Centre [HSFC]		
Laboratory for Electro optics systems [LEOS]		
ISRO Telemetry , Tracking and command network [ISTRAC]		
Regional Remote Sensing Centre [RRSC] (South)		
Master Control Facility [MCF]		
Vikram Sarabhai Space Centre [VSSC]	Kerala	4
Liquid Propulsion Systems Centre [LPSC]		
ISRO Inertial Systems Unit [IISU]		
Indian Institute of Space Science and Technology [IIST]		
ISRO Propulsion Complex [IPRC]	Tamil Nadu	1
Down range Station	Andaman & Nicobar Islands	1

(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) No, Sir.

(d) Does not arise.

(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:

- **27 satellites and 22 Launch Vehicle missions have been successfully accomplished during the period (July 2018 – July 2023), besides the successful Pad Abort Test (PAT) to qualify the Crew Escape System (CES) in July 2018 and the Reusable Launch Vehicle autonomous landing mission in April 2023.**
- **In June 2018, India announced a capacity building training programme UNNATI (UNispace Nanosatellite Assembly & Training by ISRO) on Nanosatellites development through a combination of theoretical coursework and hands-on training on Assembly, Integration and Testing (AIT). A total of 90 participants from 45 countries benefitted from the program across three batches. (Two in 2019 and 1 in 2022).**
- **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 50th launch of PSLV, the workhorse launch vehicle.**
- **In 2019, ISRO launched an annual special programme called "Young Scientist Programme" or the *"YUva VIgyani KAryakram"* (YUVIKA), in line with the Government's vision "Jai Vigyan, Jai Anusandhan". A total of 603 students have attended the YUVIKA program spread over 3 years – 2019, 2022 and 2023.**
- **In 2019, the NewSpace India Limited (NSIL) got incorporated, as a wholly owned Government of India Undertaking/ Central Public Sector Enterprise (CPSE), under the administrative control of Department of Space (DOS).**
- **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 New Space India Limited (NSIL) are the two major thrust areas in the Reform.**
- **The establishment of IN-SPACe was announced in June 2020 by Government of India, as an autonomous agency**

under Department of Space, to create eco-system of industry, academia and start-ups and to attract major share in the global space economy, by authorizing and regulating activities of NGEs in space sector through detailed guidelines and procedures. IN-SPACe Headquarters at Ahmedabad was inaugurated by the Hon'ble Prime Minister in June 2022.

- **The Hon'ble Minister of State (Department of Space) dedicated ISRO System for Safe & Sustainable Space Operations Management (IS^{4}OM) to the nation in July, 2022.**
- **LVM3 (GSLV MkIII) M2/OneWeb India-1 Mission was successfully accomplished on 23rd October 2022.**
- **Launch of Vikram-S (Prarambh mission), a suborbital launch vehicle from M/s Skyroot Aerospace Pvt. Ltd., Hyderabad, was accomplished successfully on 18th November 2022.**
- **First private launchpad & mission control center established by M/s Agnikul Cosmos Pvt. Ltd., Chennai in ISRO campus at SDSC, SHAR on 25th November 2022.**
- **On Feb 10th, 2023, the successful flight of Small Satellite Launch Vehicle (SSLV – D2) took place, launching three satellites – EOS-07, Janus-1 and AzaadiSAT-2 (a combined effort of about 750 girl students across India guided by Space Kidz India, Chennai).**
- **On March 7th, 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 26th 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 2nd April, 2023.**
- **GSLV-F12/NVS-01 mission was successfully accomplished on 29th 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 14th July, 2023. Lunar orbit insertion activities are in progress and Moon landing is scheduled on 23rd August, 2023.**

*****