IN-SPACe in Parliament

Monsoon Season of Parliament, 2022
(July – August 2022)

GOVERNMENT OF INDIA

DEPARTMENT OF SPACE

LOK SABHA

UNSTARRED QUESTION NO. 622

TO BE ANSWERED ON WEDNESDAY, JULY 20, 2022

EARTH OBSERVATION SATELLITE

622. SHRI G.M. SIDDESHWAR:

Will the PRIME MINISTER be pleased to state:

(a) whether the Government has plans to launch an Earth Observation Satellite to have real-time images of the borders and to quickly monitor natural disasters;

(b) if so, the details of other important observations the satellite is capable to record;

(c) whether Earth Observation Satellite is proposed to be followed by Small Satellite Launch Vehicle shortly;

(d) whether the technology of SSLV is different from PSLV and comparatively cost effective; and

(e) if so, the details thereof?

ANSWER

MINISTER OF STATE IN THE MINISTRY OF PERSONNEL, PUBLIC GRIEVANCES & PENSIONS AND IN THE PRIME MINISTER'S OFFICE (DR. JITENDRA SINGH):

****

(a) & (b)

Indian Space Research Organisation (ISRO)/ Department of Space (DOS) has drawn plans to launch Earth Observation Satellites for providing data for Natural Resources management, Weather advisories, Ocean surface parameter retrieval and Disaster Management support. These satellites will have global observational capability.

(c) The first developmental flight of Small Satellite Launch Vehicle or SSLV is scheduled in third quarter of 2022 from Satish Dhawan Space Centre, Sriharikota.

(d) & (e)

ISRO's vast experience in Solid propulsion and heritage of proven design practice has enabled SSLV to be developed as a cost-effective, three stage, all-solid launch vehicle with a payload capability of 55 kg to 500 km planar orbit or 300 kg to Sun Synchronous Polar Orbit.

SSLV is ideal for on-demand, quick turn-around launch of small satellites. The major technologies developed as part of realization of SSLV are flexible nozzle control with electro-mechanical actuators for all stages, miniaturized avionics and a velocity trimming module in the upper stage for premise satellite injection.

****

GOVERNMENT OF INDIA

DEPARTMENT OF SPACE

LOK SABHA

UNSTARRED QUESTION NO. 556

TO BE ANSWERED ON WEDNESDAY, JULY 20, 2022

PRIVATE PARTICIPATION IN SPACE

556. SHRI T.N. PRATHAPAN:

Will the PRIME MINISTER be pleased to state:

(a) whether the GOI has any plans to bring private partnership into SPACE explorations of the country and if so, the details thereof;

(b) the five upcoming important SPACE expedition projects in the country;

(c) the details with proposed date of launch and cost of the project; and

(d) whether the Government has decided to build a new ISRO centre in the country and if so, the details thereof?

ANSWER

MINISTER OF STATE IN THE MINISTRY OF PERSONNEL, PUBLIC GRIEVANCES & PENSIONS AND IN THE PRIME MINISTER'S OFFICE (DR. JITENDRA SINGH):

****

(a) Government of India announced reforms in June, 2020, in the space sector towards enabling the private players to provide

end to end services. A national level autonomous nodal agency namely Indian National Space Promotion and Authorization Centre (IN-SPACe) under DOS has been created for promoting, handholding, authorising and licensing private players to carry out Space Activities.

In order to facilitate private partnership in the space sector, the following steps are being taken:

- **Access to ISRO facilities and expertise are extended to private entities to support their space activities. Apart from this, ISRO will also nurture Indian space industries by sharing its experiences on quality and reliability protocols, documentation, testing procedures etc.**
- **Announcement of Opportunities are being offered in new domains of space technology.**
- **NewSpace India Ltd (NSIL), the CPSE under DOS is mandated to transfer the matured technologies developed by ISRO to Indian industries.**
- **A new space policy addressing various domains of space activities is being worked out by the Department.**

(b) & (c)

The details of the upcoming Space science projects are as follows:

Sl. No.	Name of Mission	Sanctioned Cost (Rs. in Cr)	Proposed date of Launch
1.	Aditya-L1	378.53	Q1 2023

Sl. No.	Name of Mission	Sanctioned Cost (Rs. in Cr)	Proposed date of Launch
2.	Chandrayaan-3	250.00	Q1 2023
3.	XPoSAT	60.00	Q2 2023
4.	Space Docking Experiment	124.47	Q3 2024
5.	Gaganyaan	9023.00	
	1st Milestone Mission: First Abort Demonstration Mission		Q4 2022

(d) Presently, there are no plans to establish a new ISRO Centre in the country.

****