

**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):**

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**(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 precise satellite injection.**

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