

GOVERNMENT OF INDIA

DEPARTMENT OF SPACE

RAJYA SABHA

UNSTARRED QUESTION NO. 1224

TO BE ANSWERED ON THURSDAY, JULY 29, 2021

LAUNCH OF EARTH OBSERVATION SATELLITE

1224. SHRI SAMBHAJI CHHATRAPATI:

Will the PRIME MINISTER be pleased to state:

- (a) whether Government has plans to launch an Earth Observation Satellite to have real-time images of the borders and to quickly monitor natural disasters;
- (b) 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, and
- (d) how far the technology of SSLV is different from PSLV and comparatively cost effective?

ANSWER

MINISTER OF STATE IN THE MINISTRY OF PERSONNEL, PG &
PENSIONS AND IN THE PRIME MINISTER'S OFFICE

(DR. JITENDRA SINGH):

- (a) ISRO has realized a Geo-imaging satellite; "EOS-03", for Earth Observation from Geostationary Orbit, and is scheduled for launch in third quarter (Q3) of 2021. EOS-03 is capable of imaging the whole country 4-5 times daily, and would enable near-real time monitoring of natural disasters like floods & cyclones.
- (b) In addition to natural disasters, EOS-03 would also enable monitoring of water bodies, crops, vegetation condition, forest cover changes etc.
- (c) Yes, Sir. The first developmental flight of Small Satellite Launch Vehicle or SSLV is scheduled in the fourth quarter of 2021 from Satish Dhawan Space Centre, Sriharikota.

- (d) ISRO's vast experience in Solid propulsion and heritage of proven design practices has enabled SSLV to be developed as a cost-effective, three stage, all-solid launch vehicle with a payload capability of 500 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.
