

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE**

**LOK SABHA
UNSTARRED QUESTION NO. 623**

TO BE ANSWERED ON WEDNESDAY, APRIL 27, 2016

REUSABLE ROCKET

623. SHRI S. SELVAKUMARA CHINNAYAN:

SHRI DUSHYANT CHAUTALA:

Will the PRIME MINISTER be pleased to state:

- (a) whether the Indian Space Research Organisation is planning to launch reusable vehicle namely the Reusable Launch Vehicle-Technology Demonstrator (RLVTD) in near future;**
- (b) if so, the details thereof and whether the Government has also planned to extend the programme for the commercial purpose to other countries; and**
- (c) if so, the details thereof and the follow up actions proposed by the Government in this regard?**

ANSWER

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

(DR. JITENDRA SINGH):

- (a) Yes Madam.**
- (b) Reusable Launch Vehicle - Technology Demonstrator (RLV-TD) is envisaged as a flying test bed to evaluate the critical technologies required for a hypersonic re-entry vehicle. The sub-systems for the RLV-TD, such as, the**

solid propellant booster and the winged body vehicle have been developed . The infrastructure for hardware and software has been established. The first flight test of the RLV-TD is expected in 2016, which would demonstrate the hypersonic aerodynamic characteristics, Avionics system, Thermal protection system, Control system and Mission management.

The Development of Reusable Launch Vehicle is a technical challenge and it involves the development of many cutting edge technologies. Presently, it is in the preliminary stage of total developmental process. A series of technology demonstration missions would be required before it could be used for launching.

(c) Does not arise.
