

**GOVERNMENT OF INDIA
SPACE
LOK SABHA**

UNSTARRED QUESTION NO:485
ANSWERED ON:03.08.2011
LAUNCH OF SATELLITES
Ramasubbu Shri S.

Will the Minister of SPACE be pleased to state:

- (a) the number of satellites so far launched by ISRO along with reasons of failed launches, if any;
- (b) whether ISRO has recently successfully launched Resource Satellites;
- (c) If so, the details thereof;
- (d) Whether the ISRO has any proposal to launch more satellites in the near future; and
- (e) If so, the details thereof?

Answer

MINISTER OF STATE IN THE MINISTRY PERSONNEL, PUBLIC GRIEVANCES AND PENSIONS AND IN PRIME MINISTER'S OFFICE(SHRI V. NARAYANASAMY):

(a) Using Indian launch vehicles, ISRO has so far launched 64 satellites which include 38 national satellites and 26 satellites for international customers. All these have been accomplished from the Indian spaceport, located at Sriharikota Range (SDSC, SHAR).

There have been a total of seven failed launches, of which five have been during experimental/ developmental phase whereas two were operational missions. Reasons of the failed launches are as given below:

Sl. Launch Satellite Year Remarks
No. Vehicle

1. SLV-3 E1 RTP Aug 1979 # Experimental flight of SLV-3
Failure of second stage control system
2. ASLV-D1 SROSS-1 Mar 1987 # Developmental flight of ASLV
Failure due to Non-ignition of first stage
3. ASLV-D2 SROSS-2 Jul 1988 # Developmental flight of ASLV
Failure due to loss of control during transition from strap-on to first stage.
4. PSLV-D1 IRS-1E Sep 1993 # Developmental flight of PSLV
Failure during third stage of flight due to on-board software
5. GSLV-F02 INSAT-4C Jul 2006 # Operational flight of GSLV
Failure due to malfunctioning of one of the liquid strap-on motor (L40) of the first stage.
6. GSLV-D3 GSAT-4 Apr 2010 # Developmental flight of GSLV
Failure due to anomalous stoppage of Fuel Booster Turbo Pump (FBTP) of Indigenous Cryogenic Upper Stage
7. GSLV-F06 GSAT-5P Dec 2010 # Operational flight of GSLV
Failure due to untimely and inadvertent snapping of group of connectors located at the bottom portion of the Russian Cryogenic Stage

(b)&(c) Yes, Sir. On April 20, 2011, India's Polar Satellite Launch Vehicle PSLV-C16, successfully launched RESOURCESAT-2 satellite. The data from this satellite is planned to be used for a host of applications and services like agricultural monitoring, natural resources management, disaster management support as well as infrastructure planning.

(d)&(e) Yes, Sir. During the current financial year, ISRO is planning to launch two more national satellites using Polar Satellite Launch Vehicle (PSLV). This includes launch of MEGHA-TROPIQUES an Indo- French joint satellite mission on-board PSLV-C18 and RISAT-1, a Radar Imaging satellite on-board PSLV-C19.