

**GOVERNMENT OF INDIA
SPACE
LOK SABHA**

UNSTARRED QUESTION NO:1532
ANSWERED ON:02.08.2000
SPACE CAPABILITIES
RASA SINGH RAWAT

Will the Minister of SPACE be pleased to state:

- (a) the achievements made by India so far in the field of Space;
- (b) the amount spent by India on Space Research, Satellite Development, INSAT launching during the Ninth Five Year Plan, Year-wise; and
- (c) the present status of India in the field of Space at the international level?

Answer

MINISTER OF STATE IN THE DEPARTMENT OF SPACE (SMT. VASUNDHARA RAJE):

(a) The major achievement of India in the field of Space is its ability to build world class satellites for various applications and developing means to launch them into Space. The Polar Satellite Launch Vehicle (PSLV), which is operational, can launch about 1200 kg class of satellites into polar sunsynchronous orbit. Two types of satellites presently provide operational services from Space. The INSAT system currently has five operational satellites which are used for applications such as Telecommunication, TV and Radio broadcasting, Search and Rescue services and Meteorological Observational services. The IRS system comprising of five state-of-art satellites provide data that are used in natural resource management applications, like estimating the area of crop production, predicting the agricultural yield, maps indicating the areas of ground water availability, forest survey, etc.. The IRS satellite data is also made available world wide on a commercial basis. Considerable inroads are made in the development of Geosynchronous Satellite Launch Vehicle (GSLV) for launching INSAT type of Satellites. Extensive institutional mechanisms for use of space data has been established. Industries and academic institutions have been actively involved in execution of Space programme and Department of Space has linkages with more than 500 small, medium and large scale industries. More than 236 technologies developed under the space programme have been transferred to industries.

(b) The amount spent by India during the first three years of the 9th Five Year Plan, on Space Research including satellite development and INSAT launching is as below :

1997-98 : Rs. 1050.50 Crores
1998-99 : Rs. 1401.70 Crores
1999-2000 : Rs. 1677.38 Crores

The specific amounts spent for satellite development and INSAT launching during the first three years of the Ninth Plan are as below:-

Year	Satellite Development	INSAT launching
------	-----------------------	-----------------

1997-98	Rs.170.64 Crores	
1998-99	Rs.296.77 Crores	Rs.269.75 Crores
1999-2000	Rs.308.92 Crores	Rs.342.01 Crores

(c) India is one of the very few countries to have capabilities both for development of satellites and launch vehicles. India has achieved technological capability to make state-of-art satellites and launch vehicles which are comparable to contemporary systems in the world. Some of the transponders onboard INSAT-2E have been leased to the International Telecommunication Satellite Organisation (INTELSAT) which indicates the high international quality standards of INSAT-2E. The first commercial flight of Polar Satellite Launch Vehicle (PSLV) carried two foreign satellites along with IRS-P4 into the orbit. India has emerged as a major player amongst space faring nations.