

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE**

**LOK SABHA
UNSTARRED QUESTION NO.681**

TO BE ANSWERED ON WEDNESDAY, DECEMBER 02, 2015

LAUNCH OF AMERICAN SATELLITES

681. SHRI P. NAGARAJAN:

Will the PRIME MINISTER be pleased to state:

- (a) whether Indian Space Research Organisation (ISRO) has recently launched satellites for the United States;**
- (b) if so, the details thereof;**
- (c) the total number of satellites launched by ISRO for foreign countries as on date, satellite and country-wise; and**
- (d) the details of the revenue generated in the process?**

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) ISRO, in its recent PSLV-C30/ASTROSAT mission on 28th September 2015, has launched four identical nano satellites "Lemur" belonging to Spire Global Inc. of the United States. These nano satellites (together weighing 28 kg) carried instruments for vessel tracking and weather studies.**
- (c) ISRO, through its commercial arm - Antrix Corporation Limited, till date, has launched 51 satellites from 20 countries. The details are given in the Annexure-1.**
- (d) In the process of launching these 51 satellites from 20 countries, revenue to the extent of 17.17 Million USD and 79.98 Million Euros was earned.**

ANNEXURE-1**Foreign Satellites launched by ISRO, Country-wise, through its commercial arm – Antrix Corporation Limited (as of 02 December 2015)**

SN	Country	Satellite launched	Mass (kgs)	Date of Launch
1	Algeria	ALSAT-2A	116	12-07-2010
2	Argentina	PEHUENSAT-1	6	10-01-2007
3	Austria	NLS-8.1	14	25-02-2013
4		NLS-8.2	14	25-02-2013
5	Belgium	PROBA	94	22-10-2001
6	Canada	CAN-X-2	7	28-04-2008
7		NLS-5	16	28-04-2008
8		NLS-6.1	6.5	12-07-2010
9		SAPPHIRE	148	25-02-2013
10		NEOSSAT	74	25-02-2013
11		NLS-7.1	15	30-06-2014
12		NLS-7.2	15	30-06-2014
13		NLS-14	14	28-09-2015
14	Denmark	AAUSAT-II	3	28-04-2008
15		NLS-8.3	3	25-02-2013
16	France	SPOT-6	712	09-09-2012
17		SPOT-7	714	30-06-2014
18	Germany	TUBSAT	45	26-05-1999
19		BIRD	92	22-10-2001
20		COMPASS-I	3	28-04-2008
21		RUBIN-8	8	28-04-2008
22		CUBESAT-1	1	23-09-2009
23		CUBESAT-2	1	23-09-2009
24		RUBIN-9.1	1	23-09-2009
25		RUBIN-9.2	1	23-09-2009
26		AISAT	14	30-06-2014

SI No.	Country	Satellite launched	Mass (kgs)	Date of Launch
27	Indonesia	LAPAN-TUBSAT	56	10-01-2007
28		LAPAN- A2	76	28-09-2015
29	Israel	TECSAR/POLARIS-1	300	21-01-2008
30	Italy	AGILE	350	23-04-2007
31	Japan	CUTE-1.7	5	28-04-2008
32		PROITERES	15	09-09-2012
33		SEEDS	3	28-04-2008
34	Luxembourg	VESSELSAT-1	28.7	12-10-2011
35	Republic of Korea	KITSAT-3	110	26-05-1999
36	Singapore	X-SAT	106	20-04-2011
37		VELOX-1	7	30-06-2014
38	Switzerland	CUBESAT-4	1	23-09-2009
39		NLS-6.2	1	12-07-2010
40	The Netherlands	DELFI-C3	6.5	28-04-2008
41	Turkey	CUBESAT-3	1	23-09-2009
42	United Kingdom	STRAND-1	6.5	10-07-2015
43		DMC3-1	447	
44		DMC3-2	447	
45		DMC3-3	447	
46		CBNT-1	91	
47		De-OrbitSail	7	
48	USA	Lemur1	28	28-09-2015
49		Lemur2		
50		Lemur3		
51		Lemur4		