GOVERNMENT OF INDIA
DEPARTMENT OF SPACE

LOK SABHA
STARRED QUESTION NO. 14

TO BE ANSWERED ON WEDNESDAY, FEBRUARY 24, 2016

LAUNCH OF SATELLITES

***14. SHRI A.ARUNMOZHITHEVAN:**

Will the PRIME MINISTER be pleased to state:

(a) the details of the satellites launched by the Indian Space Research Organisation (ISRO) during the year 2015 and the ones lined up for 2016;

(b) the details of the foreign satellites therein;

(c) whether ISRO is contemplating a solar mission to study the Sun and if so, the details thereof;

(d) whether the Antrix Corporation has signed agreements with other countries for launch of satellites; and

(e) if so, the details thereof?

ANSWER

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

(DR. JITENDRA SINGH):

(a) to (e) A Statement is laid on the Table of the House.

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STATEMENT LAID ON THE TABLE OF THE LOK SABHA IN REPLY TO STARRED QUESTION NO.14 REGARDING "LAUNCH OF SATELLITES" ASKED BY SHRI A.ARUNMOZHITHEVAN FOR ANSWER ON WEDNESDAY FEBRUARY 24, 2016.

(a) During the year 2015, Indian Space Research Organization (ISRO) has launched 4 Indian satellites (weighing about 8500 Kg) and 17 foreign satellites (weighing about 2100 Kg) from five countries. ISRO proposes to launch 8 Indian satellites (weighing about 12000 Kg) and 19 foreign satellites (weighing about 850 Kg) from five countries in the year 2016. The details are enclosed in Annexure-I.

(b) The 17 foreign satellites from five countries (Canada , Indonesia, Singapore, United Kingdom and USA) were launched during the year 2015 on-board ISRO's Polar Satellite Launch Vehicle (PSLV) from Sriharikota, under commercial agreements between Antrix Corporation Limited (Antrix) and respective foreign customer. The 19 foreign satellites from five countries (Algeria, Canada, Germany, Indonesia and USA) are proposed to be launched in the year 2016.

(c) Yes Madam. ISRO is working towards the development, realization and launch of the first Indian solar mission, Aditya-L1. In this mission, Aditya-L1 satellite will be placed in a halo orbit around the Sun-Earth Lagrangian point-1 (L1), which is about 1.5 million kilometer from the Earth. The primary objective of the mission is to study the solar corona in different wavebands.

(d) Yes Madam.

(e) Antrix Corporation Limited has signed agreements with customers from 7 (seven) countries for launching 25 satellites viz., Algeria (3), Canada (3), Germany (4), Indonesia (1), Japan (1), Malaysia (1) and USA (12), on-board PSLV, during 2016-17 time period.

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ANNEXURE-I

DETAILS OF INDIAN SATELLITES LAUNCHED DURING THE YEAR 2015			
SN	**Satellite**	**Launch Date**	**Purpose of Satellite**
1.	IRNSS-1D	28-03-2015	Navigation
2.	GSAT-6	27-08-2015	Communication
3.	ASTROSAT	28-09-2015	Space Science
4.	GSAT-15*	11-11-2015	Communication
**** Procured Launch using foreign launcher***			

DETAILS OF FOREIGN SATELLITES LAUNCHED DURING THE YEAR 2015				
SN	**Satellite**	**Country**	**Mass (kg)**	**Date of Launch**
1	DMC-3/1	United Kingdom	447	10/07/2015
2	DMC-3/2		447	
3	DMC-3/3		447	
4	CBNT-1		91	
5	De-orbitsail		7	
6	LAPAN-A2	Indonesia	76	28/09/2015
7	NLS-14	Canada	14	28/09/2015
8	LEMUR-2/1	USA	7	28/09/2015
9	LEMUR-2/2		7	
10	LEMUR-2/3		7	
11	LEMUR-2/4		7	
12	TeLEOS-1	Singapore	400	16/12/2015
13	VELOX-C1		123	
14	KentRidge-1		78	
15	VELOX-II		13	
16	Athenoxat-1		7	
17	Galassia		4	

INDIAN SATELLITES PROPOSED TO BE LAUNCHED IN THE YEAR 2016		
SN	**Satellite**	**Purpose of Satellite**
1.	IRNSS-1E (Already Launched)	Navigation
2.	IRNSS-1F	Navigation
3.	IRNSS-1G	Navigation
4.	CARTOSAT-2C	Earth Observation
5.	GSAT-18*	Communication
6.	SCATSAT-1	Wind vector measurements
7.	RESOURCESAT-2A	Earth Observation
8.	INSAT-3DR	Meteorology
**** Procured Launch using foreign launcher***		

FOREIGN SATELLITES PROPOSED FOR LAUNCH IN THE YEAR 2016			
SN	**Satellite**	**Country**	**Mass (kg)**
1	BIROS	Germany	135
2	SkySat-Gen2-1	USA	110
3	LAPAN-A3	Indonesia	120
4	M3M	Canada	85
5	Maxvalier	Germany	20
6	Venta-1	Germany	
7	GHGSat-D	Canada	28
8	DOVE	USA	27
9	DOVE		
10	DOVE		
11	DOVE		
12	DOVE	USA	30
13	DOVE		
14	DOVE		

FOREIGN SATELLITES PROPOSED FOR LAUNCH IN THE YEAR 2016			
SN	**Satellite**	**Country**	**Mass (kg)**
15	DOVE		
16	ALSAT-2B	Algeria	120
17	ALSAT-1B		110
18	ALSAT-1N		7
19	Pathfinder-1	USA	50