



Secretariat

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**Committee on the Peaceful
Uses of Outer Space**

**Information furnished in conformity with the Convention on
Registration of Objects Launched into Outer Space**

**Note verbale dated 21 November 2016 from the Permanent Mission
of India to the United Nations (Vienna) addressed to the
Secretary-General**

The Permanent Mission of India to the United Nations (Vienna), in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex), has the honour to transmit information concerning Indian space launches and objects relating to the ASTROSAT, CARTOSAT, IRNSS, GSAT and PSLV missions, launched from Satish Dhawan Space Centre, Sriharikota, India, and from Kourou, French Guiana (see annex).



Annex

Registration data on space objects launched by India *

Number	Name of the space object	Appropriate designator of the space object	Date and territory or location of launch			Basic orbital characteristics				
			Launch vehicle	Launch date	Launch site	Apogee (km)	Perigee (km)	Inclination (degrees)	Period (minutes)	General function of the space object
Indian Regional Navigation Satellite System (IRNSS)										
1.	IRNSS-1C	14061	PSLV-C26	16 October 2014	SDSC	35 860	35 696	3.85 (up to 5.0±0.1)	1 436	Navigation satellite of the IRNSS series
2.	IRNSS-1D	15018	PSLV-C27	28 March 2015	SDSC	35 871	35 702	29.811	1 436	Navigation satellite of the IRNSS series
3.	IRNSS-1E	16003	PSLV-C31	20 January 2016	SDSC	35 873	35 699	28.134	1 436	Navigation satellite of the IRNSS series
4.	IRNSS-1F	16015	PSLV-C32	10 March 2016	SDSC	35 873	35 700	5.024 (up to 5.0±0.1)	1 436	Navigation satellite of the IRNSS series
5.	IRNSS-1G	16027	PSLV-C33	28 April 2016	SDSC	35 796	35 777	5.092 (up to 5.0±0.1)	1 436	Navigation satellite of the IRNSS series
Geostationary communication satellites										
1.	GSAT-16	14078/ 40332	Ariane-5 VA-221	7 December 2014	CSG	35 811	35 761	0.0353 (0.0±0.1)	1 436	Communications satellite
2.	GSAT-15	15065/ 41028	Ariane-5 VA-227	11 November 2015	CSG	35 801	35 773	0.0387 (0.0±0.1)	1 436	Communications satellite
Remote sensing and scientific missions										
1.	Astrosat	2015-052A	PSLV-C30	28 September 2015	SDSC	655.597	638.751	5.996	97.284	Scientific mission for astronomical observation
2.	Cartosat-2 series	2016-040A	PSLV-C34	22 June 2016	SDSC	510.1	484.4	97.51	94.6	Remote sensing satellite

* The registration data are reproduced in the form in which they were received.

Number	Name of the space object	Appropriate designator of the space object	Date and territory or location of launch			Basic orbital characteristics				General function of the space object
			Launch vehicle	Launch date	Launch site	Apogee (km)	Perigee (km)	Inclination (degrees)	Period (minutes)	
Upper stages of rockets										
1.	PSLV C26-R/B	40269	PSLV-C26	16 October 2014	SDSC	35 860	35 696	3.85 (up to 5.0±0.1)	1 436	Upper stage of PSLV C26
2.	PSLV C27-R/B	40547	PSLV-C27	28 March 2015	SDSC	35 871	35 702	29.811	1 436	Upper stage of PSLV-C27
3.	PSLV-C28 R/B Upper stage	2015-032F	PSLV-C28	10 July 2015	SDSC	630.898	624.446	98.086	97.383	Commercial launch (DMC3), upper stage of PSLV-C28
4.	PSLV-C29 R/B Upper stage	2015-077G	PSLV-C29	16 December 2015	SDSC	569.782	404.203	14.687	93.985	Commercial launch (TeLEOS-1), upper stage of PSLV-C29
5.	PSLV C30-R/B	2015-052H	PSLV-C30	28 September 2015	SDSC	655.411	612.938	5.954	97.010	Upper stage of PSLV-C30
6.	PSLV-C31 R/B	41241	PSLV-C31	20 January 2016	SDSC	35 873	35 699	28.134	1 436	Upper stage of PSLV-C31
7.	PSLV-C32 R/B	41384	PSLV-C32	10 March 2016	SDSC	35 873	35 700	5.024 (up to 5.0±0.1)	1 436	Upper stage of PSLV-C32
8.	PSLV-C33 R/B	41469	PSLV-C33	28 April 2016	SDSC	35 796	35 777	5.092 (up to 5.0±0.1)	1 436	Upper stage of PSLV-C33
9.	PSLV-C34 Upper stage	2016-040Y	PSLV-C34	22 June 2016	SDSC	480.5	460.5	97.53	94.0	Upper stage of launch vehicle

Note: Space objects were launched from Satish Dhawan Space Centre (SDSC), Sriharikota, India, or from Kourou, French Guiana (CSG).