

# List of Indian satellites (1975 - 2020)

Launch year	Satellite	Importance
1975	Aryabhata	First Indian Satellite. It gave valuable technological know how about satellites
1979	Bhaskara-I	First experimental remote sensing satellite which carried TV and microwave cameras.
1979	Rohini Technology Payload	The first Indian launch vehicle
1980	Rohini RS-1	India's first indigenous satellite launch
1981	Rohini RS-D1	Launched by the first developmental launch of SLV-3 and carried a solid state camera
1981	Ariane Passenger Payload Experiment	First experimental communication satellite
1981	Bhaskara-II	Second experimental remote sensing satellite
1982	INSAT-1A	First operational multipurpose communication and meteorology satellite
1983	Rohini RS-D2	Carried a smart sensor camera.
1983	INSAT-1B	Very successful. Revolutionized TV, radio, and telecommunications.
1987	SROSS-1	No remarkable achievement
1988	IRS-1A	Earth observation satellite
1988	SROSS-2	No remarkable achievement
1988	INSAT-1C	No remarkable achievement
1990	INSAT-1D	Still operational

1991	IRS-1B	Earth observation satellite
1992	SROSS-C	Carried gamma ray astronomy and aeronomy payload
1992	INSAT-2DT	It was launched as Arabsat 1C
1992	INSAT-2A	First satellite in the second-generation Indian-built INSAT-2 series
1993	INSAT-2B	Second satellite in INSAT 2 series
1993	IRS-1E	Earth observation satellite
1994	SROSS-C2	No remarkable achievement
1994	IRS-P2	Earth observation satellite. Launched by second developmental flight of PSLV.
1995	INSAT-2C	Still in operation. Has television outreach beyond Indian boundaries.
1995	IRS-1C	Earth observation satellite
1994	IRS-P2	Earth observation satellite
1996	IRS-P3	Earth observation satellite
1997	INSAT-2D	Inoperable since 1997-10-04 due to power bus anomaly
1997	IRS-1D	Earth observation satellite
1999	INSAT-2E	Multipurpose communication and meteorological satellite
1999	IRS-P4 OCEANSAT	Earth observation satellite carrying a Multifrequency Scanning Microwave Radiometer (MSMR) and an Ocean Colour Monitor (OCM)
2000	INSAT-3B	Multipurpose communication satellite
2001	GSAT-1	Experimental satellite for the first developmental flight of GSLV-D1

2001	Technology Experiment Satellite (TES)	Experimental satellite to test new reaction control system, high-torque reaction wheels, and attitude and orbit control system
2001	INSAT-3C	Designed to provide continuity of the services of INSAT-2C and augment the existing INSAT capacity for communication and broadcasting
2002	Kalpana-1 (METSAT)	First meteorological satellite built by Indian Space Research Organisation
2003	INSAT-3A	Multipurpose satellite for communication, broadcasting, and meteorological services along with and Kalpana-1 and INSAT-2E
2003	GSAT-2	Experimental satellite for the 2nd developmental test flight of GSLV
2003	INSAT-3E	Communication satellite to augment the existing INSAT System
2003	RESOURCESAT -1 (IRS-P6)	Most advanced Remote Sensing Satellite
2004	EDUSAT (GSAT-3)	India's first satellite exclusively for education
2005	HAMSAT	Microsatellite for radio services to national and international community
2005	CARTOSAT-1	Earth observation satellite
2005	INSAT-4A	Direct-to-home(DTH) TV broadcasting
2006	INSAT-4C	Geosynchronous communications satellite
2007	CARTOSAT-2	Remote sensing satellite carrying panchromatic camera

2007	SRE-1 (Space Capsule Recovery Experiment)	Test satellites to show an orbiting platform for performing tests in microgravity conditions
2007	INSAT-4B	Similar to INSAT-4A
2007	INSAT-4CR	Identical to INSAT-4C
2008	CARTOSAT-2A	Similar to CARTOSAT-2
2008	IMS-1	Low-cost micro-satellite
2008	Chandrayaan-1	India's first lunar probe
2009	RISAT-2	Radar imaging satellite
2009	ANUSAT	Research Microsatellite developed by Anna University
2009	Oceansat-2	Collects oceanographic, coastal and atmospheric data
2010	GSAT-4	Communications satellite technology, failed mission
2010	CARTOSAT-2B	Earth observation/remote sensing satellite.
2010	GSAT-5P /INSAT-4D	Mission failed
2011	RESOURCESAT-2	Remote-sensing satellite
2011	INSAT-4G	C-band communication satellite
2011	Youthsat	Indo-Russian stellar and atmospheric satellite
2011	GSAT-12	communication satellite
2011	Megha-Tropiques	Indo-French collaborative effort to research on water cycle in atmosphere
2012	RISAT-1	First indigenous all-weather Radar Imaging Satellite
2012	GSAT-10	advanced communication satellite

2013	SARAL	Mission for oceanographic studies
2013	IRNSS-1A	Seven spacecraft constituting the IRNSS space segment
2013	INSAT-3	Meteorological Satellite
2013	GSAT-7	Advanced multi-band communication satellite dedicated for military purpose
2013	Mars Orbiter Mission (MOM)	India's first Mars orbiter
2014	GSAT-14	Geostationary communication satellite
2014	IRNSS-1B	Second satellite in the Indian Regional Navigation Satellite System
2014	IRNSS- 1C	Third satellite in the Indian Regional Navigation Satellite System
2014	GSAT-16	communication satellite
2014	IRNSS-1D	Fourth satellites in the Indian Regional Navigation Satellite System
2014	GSAT-6	Communication satellite
2015	Astrosat	India's first dedicated multi wavelength space Observatory
2015	GSAT-15	Communications satellite, carries GPS Aided GEO Augmented Navigation (GAGAN) payload
2016	IRNSS-1E	Fifth satellite in the Indian Regional Navigation Satellite System
2016	IRNSS-1F	Sixth satellite in the Indian Regional Navigation Satellite System

2016	IRNSS-1G	Seventh and final satellite in the Indian Regional Navigation Satellite System
2016	CARTOSAT-2C	Earth observation remote sensing satellite
2016	INSAT-3DR	An advanced meteorological satellite of India configured with an imaging System and an Atmospheric Sounder.
2016	SCATSAT-1	Miniature satellite to give climate anticipating, tornado expectation, and tracking services to India.
2017	CARTOSAT-2D	The highest number of satellites (104 satellites) launched by a single launch vehicles
2018	CARTOSAT- 2F	CartoSat-2F is the 6th satellite in the Cartosat series to be built by ISRO.
2018	MICROSAT- TD	This satellite is a technology demonstrator and the forerunner of future satellites.
2018	INS -1C	This is the third satellite in the Indian Nanosatellite series, which carried a Miniature Multispectral Technology Demonstration (MMX-TD) Payload
2018	GSAT- 6A	This satellite is a high power S-band communication satellite configured around I-2K bus
2018	IRNSS -1I	This satellite is the 6th in the series and facilitates gps navigation.
2018	GSAT-29	This satellite facilitates high-throughput communication
2018	HySYS	It facilitates Hyperspectral imaging services for agriculture, forestry, and military applications.
2018	ExseedSat-1	1st privately funded satellite of India
2018	GSAT-11	Heaviest spacecraft of India

2018	GSAT-7A	Facilitates services for Indian Army and Air Force
2019	Microsat-R	This satellite facilitates Earth imaging for defense purposes
2019	KalamSAT-V2	It is the world's lightest satellite
2019	GSAT-31	This is a high-throughput Telecommunication Satellite
2019	EMISAT	This facilitates Electromagnetic intelligence to track any enemy radars for the IAF
2019	Chandrayaan-2	India's second lunar exploration mission
2019	Cartosat-3	Cartosat-3 is one of the optical satellites with highest resolutions in world
2020	GSAT-30	GSAT-30 is the 41st communication satellite launched by ISRO to replace INSAT-4A. It provides advanced telecommunication services to the entire Indian subcontinent.