

ISRO Indian Satellites List - Study Notes for SSC & Bank Exams in PDF

ISRO (Indian Space Research Oragnisation) has successfully launched GSAT – 11 into space today i.e., on 5th December 2018. This satellite is also called as "Big Bird" was launched from French space port Kourou in South America at 2.07 am (IST). The main purpose of GSAT-11 is to provide satellite based internet to remote places and will aid in providing internet connectivity in flights in India. It weights 5,854 kg is heaviest Indian Satellites that ISRO lauched into the orbit. This launch was the second attempt by ISRO after the first attempt which failed in May.

GSAT – 11 is the latest, next generation high throughout communication satellite that will accelerate the broadband service across the nation. Moreover, this satellite will be a great platform for new generation applications. It has cost about Rs.600 crore, and its lifespan is of 15 years.

Indian Satellite GSAT - 29

The Indian Space Research Organisation (ISRO) on 14th November 2018 also accomplished its fifth launch for the year by launching the **GSLV Mark III** rocket carrying the **GSAT-29** communication satellite from the Satish Dhawan Space Centre at Sriharikota. The communication satellite carries high throughput communication transponders in the Ka and Ku bands and its mission is to expand high-speed data transfer in the remote areas of India.

Before we look into the list of Indian Satellites, let's quickly learn few trivia about Satellites.

1. What is a Satellite?

Anything that orbits something else like the moon orbits the earth, is known as a satellite. They are used for diverse purposes such as weather forecasting, television broadcast, radio communications, internet communications, GPS, etc.

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Generally, there are two types of satellites

- Natural (Moon orbiting the Earth)
- Artificial (International Space Station orbiting the Earth)









There are many natural and artificial satellites, out there in space, performing their functions and making our lives back on earth easy in some or the other way. The artificial satellites as the name suggests are man made satellites from different countries.

Let us look at the year - wise list of Indian Satellites with their purposes and also learn about the organisation responsible for the Indian Space programmes.

2. Types of Satellites

Geosynchronous

-It is placed in **geosynchronous** orbit.

-It has an orbital period the same as the Earth's rotation period which means that it returns to the same position in the sky after each sidereal day.

Geostationary

-This is an earth-orbiting satellite.

-It is placed at an altitude of approximately 35,800 kilometers (22,300 miles) directly over the equator.

-It revolves in the same direction the earth rotates (west to east).

3. List of Indian Satellites

India has launched **106 satellites** of various types since its first in **1975.** The organisation responsible for Indian satellites is the **Indian Space Research Organisation (ISRO)**. Run through the list of Indian satellites, listed yearwise along with their purposes.

Indian Satellites	Launched	Purpose
	Date	
Aryabhata	19th	- India's first satellite.
	April	- It was build to gain experience in building
	1975	and operating a satellite in space.
Bhaskar	7th	- First experimental remote sensing satellite.
	June	- Carried TV and microwave cameras.
	1979	
Rohini Technology	10th	Intended for measuring in-flight performance of
Payload	August	first experimental flight of SLV-3,
	1979	the first Indian launch vehicle.
Rohini RS-1	18th	India's first indigenous satellite launch.
	July	
	1980	









Rohini RS-D1	31st May 1981	Conducts remote sensing technology studies using a landmark sensor payload.
Ariane Passenger Payload Experiment	1901 19th June 1981	First experimental communication satellite.
Bhaskara - II	20th November 1981	Second experimental remote sensing satellite.
INSAT-1A	10th April 1982	First operational multi purpose communication and meteorology satellite.
Rohini RS-D2	17th April 1983	Identical to RS-D1
INSAT-1B	30th August 1983	Earth observation satellite.
Stretched Rohini Satellite Series (SROSS-1)	24th March 1987	Carried payload for launch vehicle performance monitoring and for gamma ray astronomy.
IRS-1A	17th March 1988	First operational remote sensing satellite
Stretched Rohini Satellite Series (SROSS-2)	13th July 1988	Carried remote sensing payload of German space agency in addition to Gamma Ray Astronomy payload.
INSAT- 1C	21st July 1988	Same as INSAT-1A.
INSAT- 1D	12th June 1990	Identical to INSAT-1A.
IRS-1B	29th August 1991	- Earth observation satellite. - Improved version of IRS-1A
INSAT- 2DT	26th February 1992	 It was a communications Satellite, earlier called as Arabsat. After its retirement, it was placed in the Graveyard orbit
Stretched Rohini Satellite Series (SROSS-C)	20th May 1992	Carried gamma ray astronomy and astronomy payload.

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INSAT- 2A	10th	First satellite in the second-generation
	July	Indian-built INSAT-2 series.
	1992	
INSAT- 2B	23th	Second satellite in INSAT-2 series.
	July	
	1993	
IRS-1E	20th	Earth observation satellite
	September	
	1993	
Stretched Rohini Satellite	4th	Identical to SROSS-C.
Series (SROSS-C2)	May	
	1994	
IRS-P2	15th	Earth observation satellite
	October	
	1994	
INSAT-2C	7th	Has an additional capability such
	December	as mobile satellite service, business
	1995	communication and television outreach
	1995	beyond Indian boundaries.
IRS-1C	28 th	Earth observation satellite
	December	Latti observation satemite
	1995	
IRS-P3	21st	Carries remote sensing payload and an
110-13	March	X-ray astronomy payload.
	1996	x-ray astronomy payload.
INSAT-2D	4th	Same as INSAT-2C.
	June	Same as mort-20.
	1997	
IRS-1D	29th	Earth observation satellite.
	September	Earth observation satellite.
	1997	
INSAT-2E	3rd	Multipurpose communication and
INSAI-2L	April	meteorological satellite.
	1999	ineteorological satellite.
Occupant 1(IPS D4)	26th	- Carries an Ocean Color Monitor (OCM)
Oceansat-1(IRS-P4)	May-	and a Multi frequency
	1999	Scanning Microwave Radiometer (MSMR) Earth observation satellite.
INSAT-3B	01ct	Multipurpose communication: business
1113A1-3D	21st March	
		communication, developmental communication, and mobile communication.
CRAT 1	2000	
GSAT-1	18th	Experimental satellite for the first developmental flight of Coordinate Satellite
	April	flight of Geosynchronous Satellite.
	2001	





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Technology22ndExperimental satellite to testExperimentOctobertechnologies such as attitude and orbitSatellite2001control system, high-torque reaction wheels, new reaction control system, etc.INSAT-3C23rdDesigned to augment the existing JanuaryJanuaryJANAT capacity for communication and broadcasting and provide continuity of the services of INSAT-2C.Kalpana-112thFirst meteorological satellite built by ISRO.(METSAT)September 2002Originally named METSAT. 2002INSAT-3A9thMultipurpose satellite for communication, broadcasting, and meteorological services along 2003gSAT-28thExperimental satellite for the second May developmental test flight 2003INSAT-3E27thCommunication satellite to augment the existing INSAT System. 2003INSAT-3E2004Intervalue of IRS-1D.EDUSAT2004India's first exclusive educational satellite. Amay 2003HAMSAT5thMicro satellite for providing satellite-based amay 2003CARTOSAT-15thProvides stereographic in-orbit images
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CARTOSAT-1 5th Provides stereographic in-orbit images
May with a 2.5-meter resolution.
2005
INSAT-4A 21st Advanced satellite for direct-to-home
December television broadcasting services.
2005 INSAT 4C 10th Coordinations communications catallite
INSAT-4C 10th Geosynchronous communications satellite.
July
CARTOSAT-2 10th Advanced remote sensing satellite
January carrying a panchromatic camera capable
2007 of providing scene-specific spot images.
Space Capsule Recovery10thExperimental satellite intended to demonstrate
Experiment (SRE-1) January the
2007 technology of an orbiting platform for performing
experiments in micro gravity conditions.

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INCAT AD	12th	Augments the INCAT consists for direct to home
INSAT-4B		Augments the INSAT capacity for direct-to-home
	March	(DTH)
	2007	television services and other communications.
INSAT-4CR	2nd	It carried 12 high-power Ku-band transponders
	September	designed
	2007	to provide direct-to-home (DTH) television
		services.
CARTOSAT-2A	28th	Earth observation/remote sensing satellite.
	April	,
	2008	
IMS-1 (Third World	28th	Low-cost micro satellite imaging mission.
Satellite – TWsat)	April	
Satemite 1 (VSat)	2008	
Chandrayaan-1	2000 22nd	Carries 11 scientific instruments built in India,
Chandrayaan-1	October	USA,
DIGAT	2008	UK, Germany, Sweden and Bulgaria.
RISAT-2	20th	Radar imaging satellite used to monitor
	April	India's borders and as part of anti-infiltration
	2009	and anti-terrorist operations.
ANUSAT	20th	- Carries an amateur radio and technology
	April	demonstration experiments.
	2009	- Research micro satellite designed at Anna
		University.
Oceansat-2(IRS-P4)	23th	- Gathers data for oceanographic,
	September	coastal and atmospheric applications.
	2009	- Continues mission of Oceansat-1.
GSAT-4	15th	Communications satellite technology
	April	demonstrator.
	2010	
CARTOSAT-2B	12th	Earth observation/remote sensing satellite.
	July	Latti observation/remote sensing satemite.
	2010	
StudSat	12th	First Indian nice satellite (weighing loss than t
Studbal		- First Indian pico-satellite (weighing less than 1
	July	kg).
	2010	- Developed by a team from seven engineering
	.1	colleges from Karnataka and Andhra Pradesh.
GSAT-5P /INSAT-4D	25th	C-band communication satellite.
	December	
	2010	
RESOURCESAT-2	20th	ISRO's eighteenth remote-sensing satellite
	April	
	2011	
	2011	
Youthsat	2011 20th	Indo-Russian stellar and atmospheric satellite
Youthsat		Indo-Russian stellar and atmospheric satellite with the participation of university students.





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GSAT-8 /INSAT-4G 2	1st	Communications satellite carries
· · ·	lay	24 Ku-band transponders
	•	
20	011	and 2 channel GAGAN payloads
		operating in L1 and L5 band.
-	5th	Extended C-band transponders to meet the
	uly	country's
20	011	growing demand for transponders in
		a short turn-around-time.
Megha-Tropiques 12	2th	Developed by India and France to track the
0	ctober	weather.
20	011	
Jugnu 12	2th	Nano-satellite weighing 3 kg developed by IIT
	ctober	Kanpur.
	011	
	6th	First indigenous all-weather Radar Imaging
	pril	Satellite
	012	(RISAT-1), whose images will facilitate
20	012	0
		agriculture
ODMOATE		and disaster management.
	2th	Nano-satellite developed by SRM University.
	ctober	
	011	
	9th	India's advanced communication
	eptember	satellite is a high power satellite being
	012	inducted into the INSAT system.
SARAL 2	5th	The Satellite with ARGOS and
F	ebruary	ALTIKA (SARAL) is a joint
20	013	Indo-French satellite mission
		for oceanographic studies.
IRNSS-1A 15	st	It is one of the seven spacecraft constituting
Jı	uly	the IRNSS space segment.
	013	I I I I I I I I I I I I I I I I I I I
	5th	Meteorological Satellite with advanced
Ű,	uly	weather monitoring payloads.
	013	noution monitoring pujioudo.
	oth	Advanced multi-band communication
	ugust	satellite dedicated for military use.
	0	satemite dedicated for minitary use.
	013	
-	th	Also known as Mangalyaan
	ovember	is India's first Mars orbiter.
	013	
GSAT-14 5		
	th	Twenty-third geostationary communication
	th anuary	satellite of India to augment
Ja		

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IRNSS-1B	4th	Second satellite of the IRNSS.
	April	
	2014	
IRNSS-1C	15th	Third satellite of the IRNSS.
	October	
	2014	
GSAT-16	7th	Twenty-fourth communication satellite of India
	December	configured to carry a total of 48 communication
	2014	transponders.
IRNSS-1D	28th	Fourth satellite of the IRNSS
	March	
	2015	
GSAT-6	27th	Communication satellite.
	August	
	2015	
Astrosat	28th	India's first dedicated multi wavelength space
	September	Observatory.
	2015	
GSAT-15	10th	Communications satellite carries communication
U U	November	transponders in Ku-band and a GPS Aided GEO
	2015	Augmented Navigation (GAGAN) payload
	0	operating in L1 and L5 bands.
IRNSS-1E	20th	Fifth satellite of the IRNSS.
	January	
	2016	
IRNSS-1F	10th	Sixth satellite of the IRNSS.
	March	
	2016	
IRNSS-1G	28th	Seventh and final satellite of the IRNSS.
	April	
	2016	
Cartosat-2C	22nd	Earth observation/remote sensing satellite.
	June	,
	2016	
SCATSAT-1	26th	Miniature satellite to provide weather
	September	forecasting, cyclone prediction, and
	2016	tracking services to India.
RESOURCESAT-2A	15th	Remote Sensing satellite intended for resource
	February	monitoring.
	2017	0
CARTOSAT-2D	15th	Highest number of satellites launched by a single
	February	launch vehicle (104 satellites)
	2017	
PSLV-C38 / Cartosat-2	23rd	The Cartosat will provide remote sensing services
Series Satellite	June	for about five years.
	2017	

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PSLV-C40/Cartosat-2 Series Satellite Mission	12th June	Providing high resolution scene specific spot imageries.
Series Satellite Wission	2018	inageries.
PSLV-C41/IRNSS-1I	12th	Navigation satellite constellation
	April	
	2018	
NovaSAR, S1-4	16th	Intended for forest mapping, land use & ice cover
	September	monitoring, flood & disaster monitoring.
	2018	
GSAT-29	14th	Aims at providing high-speed bandwidth to
	November	Village Resource Centres (VRC) in rural areas.
	2018	
HysIS(Hyper spectral	29th	Aims at studying the earth's surface in the visible,
Imaging Satellite)	November	near infrared and shortwave infrared regions of
	2018	the electromagnetic spectrum.

4. Indian Satellites - Important Facts

- ISRO was formed on the Independence Day, 1969 by Dr. Vikram Sarabhai.
- SLV-3 was India's first indigenous satellite launch vehicle. The director of this project was APJ Abdul Kalam.
- India is the only country to have reached Mars in the first attempt.
- The satellite Aryabhata got its name by Indira Gandhi and was launched by the Soviet Union.
- India has set a national record by successfully launching a rocket carrying 20 satellites, including 13 from the US, last year in June.

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