**IRNSS-1A**

IRNSS-1A is the first navigational satellite in the Indian Regional Navigation Satellite System (IRNSS) series of satellites been placed in geosynchronous orbit

This satellite was made for 1.25 billion Indian rupees (which is about 16 million US dollars). It was sent into space on July 1st, 2013. The satellite will help people in India find their way around, like the Global Positioning System (GPS), but it's only for India and the nearby area.

Each satellite in the IRNSS group has two important parts: one helps with navigation, and the other helps measure distance. There is also a special tool on the satellite called a laser retro-reflector. The navigation part sends out signals at two different frequencies called L5 and S-band. These signals are made to work with both GPS and Galileo, which are other navigation systems. The satellite gets its power from two solar panels, which can make up to 1,660 watts of electricity. This satellite will work for ten years before it needs to be replaced.

**Launch**

The satellite was launched from the Satish Dhawan Space Centre (SDSC) on 1 July 2013 at 11:41 PM The launch was postponed from its initial launch date of 26 June 2013 due to a technical snag in the 2nd stage of the PSLV-C22 launch rocket.ISRO then replaced the faulty component in the rocket and rescheduled the launch to 1 July 2013 at 11:43 p.m