

PARLIAMENT QUESTION: NISAR-SATELLITE

प्रविष्टि तिथि: 03 DEC 2025 5:31PM by PIB Delhi

NASA-ISRO Synthetic Aperture Radar (NISAR) was successfully launched onboard GSLV-F16 on July 30, 2025 from Sriharikota, Andhra Pradesh.

The aims and objectives of NISAR is given below:

NISAR is the first of its kind mission jointly developed by ISRO and NASA in L & S-Band for global coverage with microwave imaging capability to acquire fully polarimetric and interferometric data. NISAR's mission objectives are to study land and ice deformation, land ecosystems and oceanic regions in areas of common interest to the US and Indian science communities with a mission life of 5 years.

After NISAR's successful launch by GSLV-F16 on July 30, 2025, 17.40 Hrs (IST), the desired objectives/target activities that have been carried out successfully are given below:

- Antenna Reflector deployment on August 15, 2025, 19.38 Hrs through a sequence of deployments that continued from August 09-15, 2025 for a period of 7 days.
- First day payload operations of S-Band SAR started on August 19, 2025.

Science plan activities are in progress as per the mission plan. Development of applications to end users will be taking place during the mission life of 5 years.

The financial sanction for realisation of NISAR satellite was obtained on 27th May, 2015 and it took a decade for the successful launch on 30th July, 2025. The expenditure incurred by ISRO is Rs. 504.78 Crores for the development of satellite as on October 31, 2025 and Rs. 340 Crores (approx.) for the cost of its launch.

The total number of satellites launched by ISRO during the current year are as given below:

- NVS-02 on January 29, 2025
- EOS-09 on May 18, 2025
- NISAR on July 30, 2025 and
- CMS-03 on November 02, 2025

NKR/AK

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