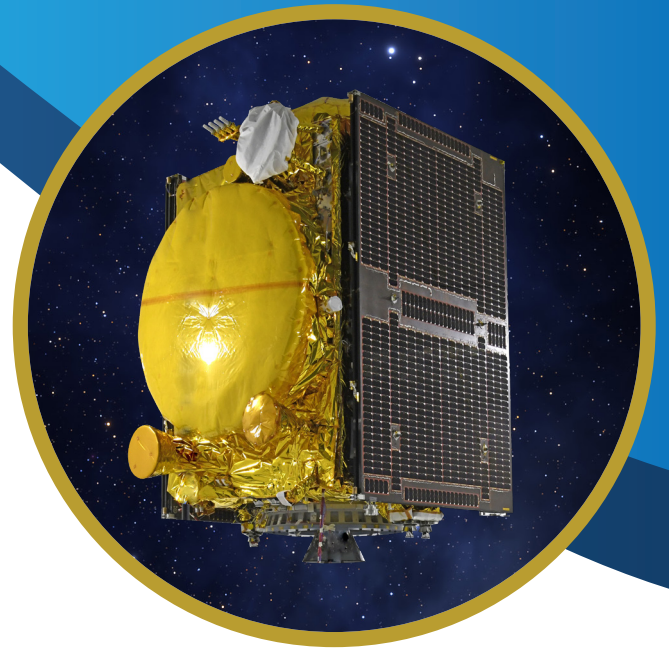




GSLV-F18

NVS-03 Mission

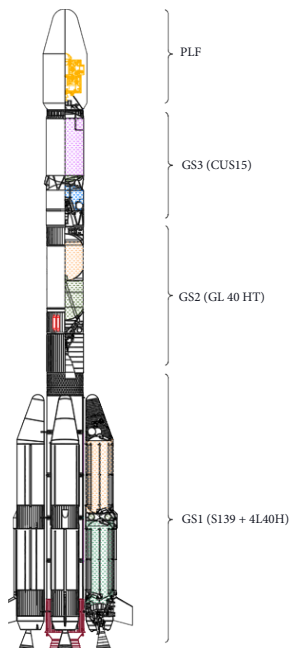


GSLV-F18 / NVS-03 MISSION

GSLV-F18 is the 20th flight of India's Geosynchronous Satellite Launch Vehicle (GSLV).

The GSLV-F18 vehicle will place NVS-03 satellite into a Geosynchronous Transfer Orbit. Launch is planned from the Second Launch Pad (SLP) at Satish Dhawan Space Centre, SHAR.

20th
Flight of
GSLV



Vehicle Configuration

GSLV-F18 Vehicle Characteristics

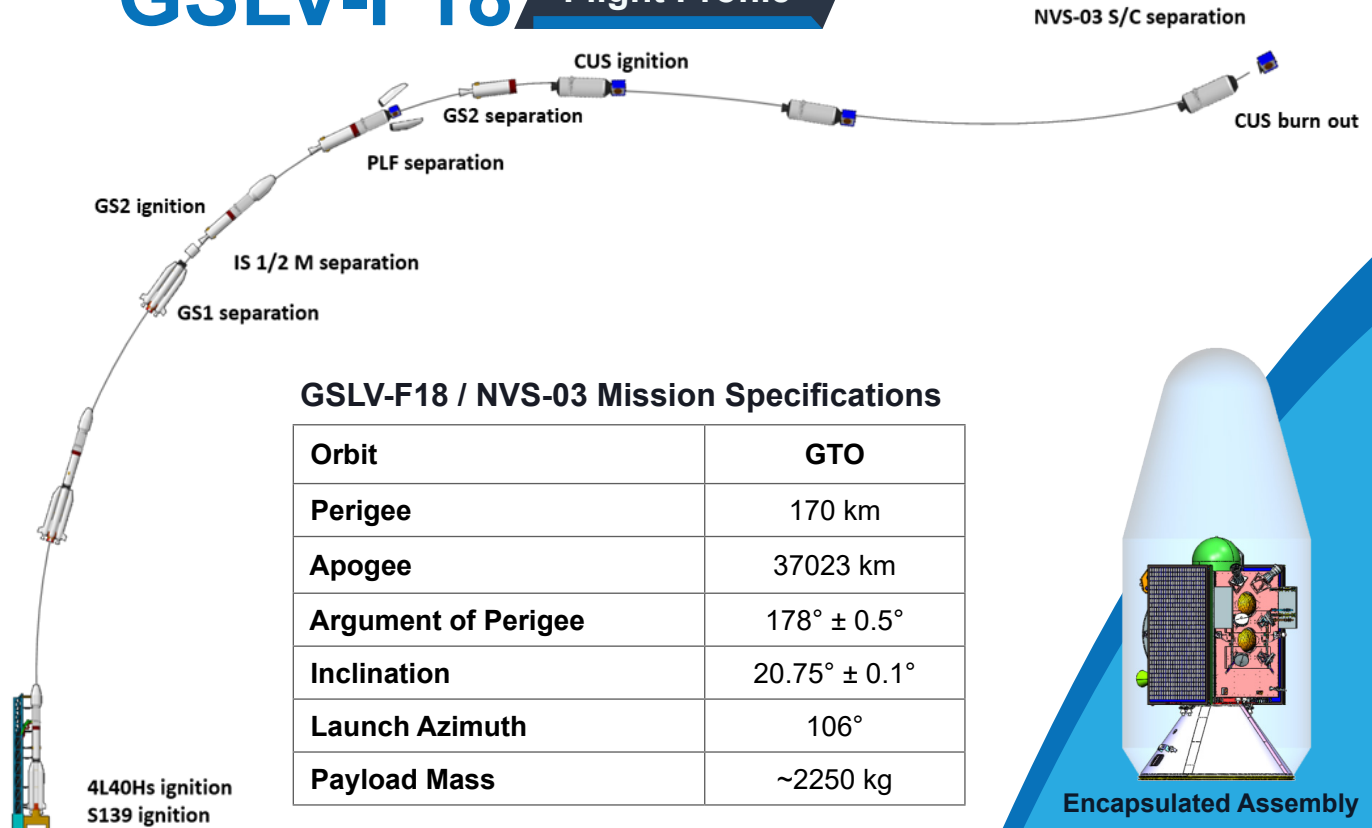
Vehicle Height	~ 50 m
Lift off Mass	~ 420 t
Stages	3
First Stage (GS1)	S139+4 L40H
Second Stage (GS2)	GL40HT
Third Stage (GS3)	CUS15
Payload Fairing	Ø3.4 m metallic version

GSLV-F18 Vehicle Configuration (S139+4 L40H+GL40HT+CUS15+Ø3.4m PLF)

GSLV-F18 Propulsion Stages at a Glance

Stages	First Stage (GS1)		Second Stage (GS2)	Third Stage (GS3)
Parameter	S139	4 L40H	GL40HT	CUS15
Length (m)	20.1	19.6	11.9	9.8
Diameter (m)	2.8	2.1	2.8	2.8
Propellant	HTPB	UH25 + N ₂ O ₄	UH25 + N ₂ O ₄	LH ₂ + LOX
Propellant Mass (t)	138.2	170.6	42.1	14.4
Stage Mass at Lift-Off (t)	160.9	191	47.3	17.1

GSLV-F18 Flight Profile

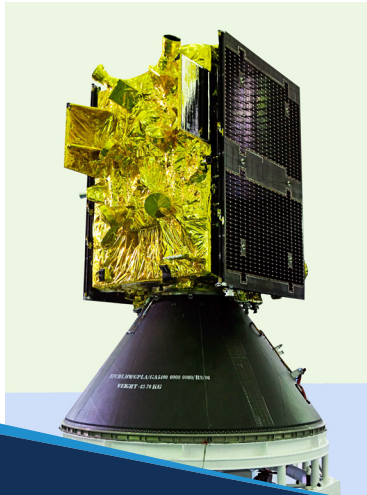


NVS-03 Satellite

Navigation with Indian Constellation (NavIC) is India's independent regional navigation satellite system designed to provide accurate Position, Navigation and Timing (PNT) service to users in India as well as the region extending about 1500 km beyond the Indian landmass, which is its primary service area.

NVS-03 is the Third Satellite in Next generation navigation satellite system envisaged for providing continuity of navigation services for IRNSS series. The satellite carries Indigenous Atomic clock, along with the procured Atomic clocks. It also includes L1 signal in addition to existing L5/S signals with Coverage over India land mass and a region extending 1500 km around Indian geopolitical boundary.





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