

GSLV-F17

EOS-05 Mission

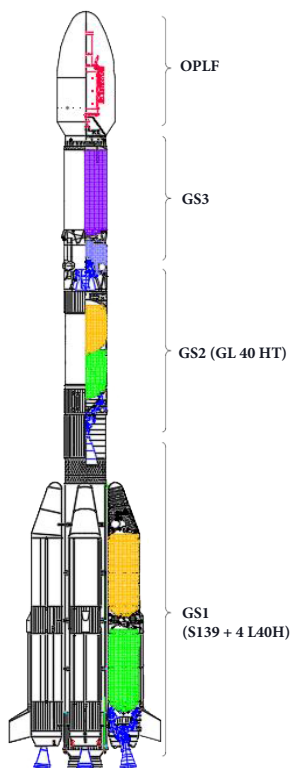


GSLV-F17/EOS-05 MISSION

GSLV-F17 is the 19th flight of India's Geosynchronous Satellite Launch Vehicle (GSLV) and the configuration of GSLV-F17 Payload Fairing is 4 m dia ogive (composite) version.

The GSLV-F17 vehicle will place EOS-05 satellite into a Sub-Geosynchronous Transfer Orbit (Sub-GTO). Launch is planned from the Second Launch Pad (SLP) at Satish Dhawan Space Centre, SHAR.

19th
Flight of
GSLV



GSLV-F17 Vehicle Characteristics

Vehicle Height	51.7 m
Lift off Mass	420.5 t
Stages	3
First Stage (GS1)	S139+4 L40H
Second Stage (GS2)	GL40HT
Third Stage (GS3)	CUS15
Payload Fairing	Ø4 m ogive configuration (Composite version)

GSLV-F17 Vehicle Configuration (S139+4 L40H+GL40HT+CUS15+Ø4m OPLF)

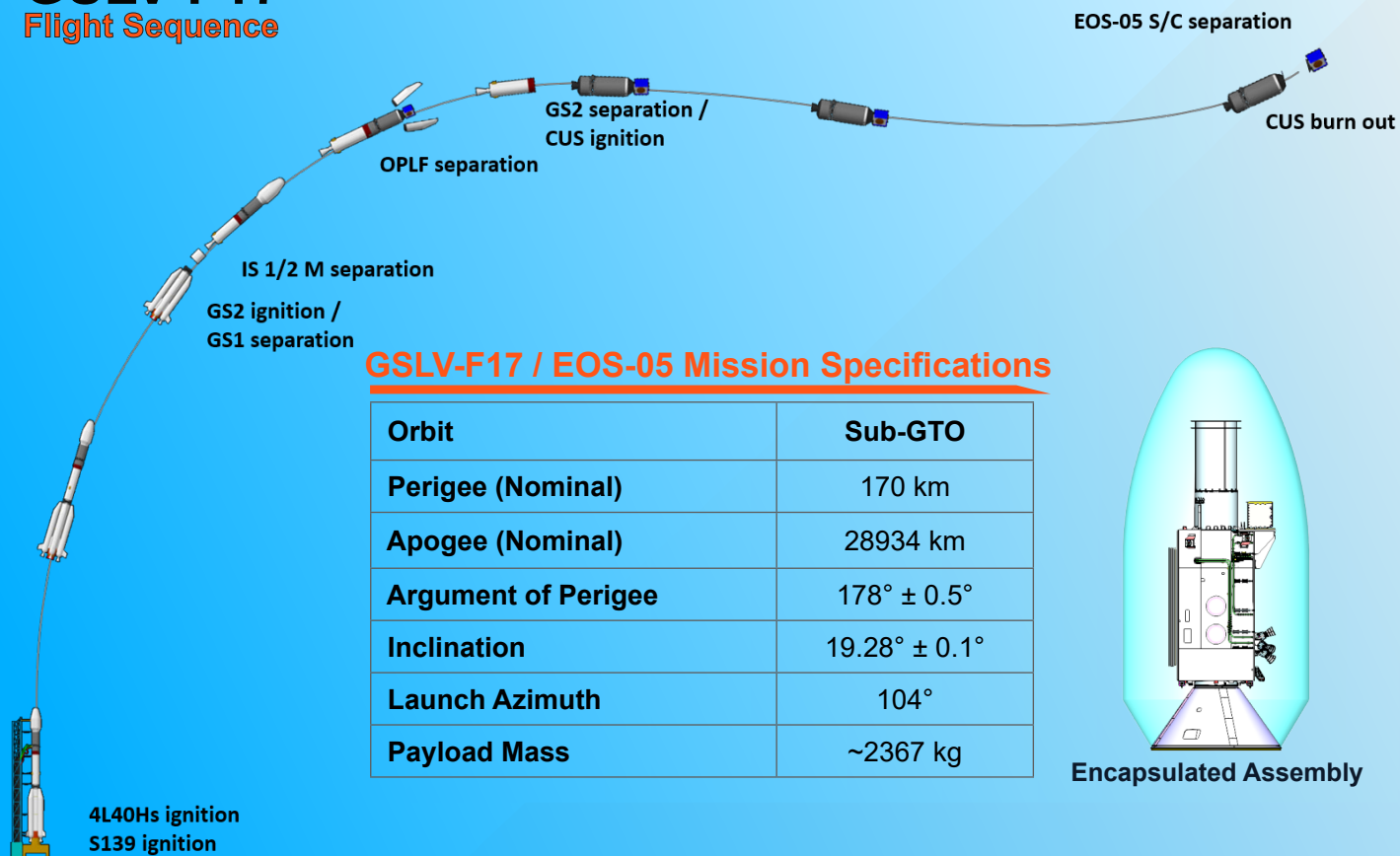
GSLV-F17 Propulsion Stages at a Glance

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	170	42	15
Stage Mass at Lift-Off (t)	160.9	191	47.3	17.1

Vehicle Configuration

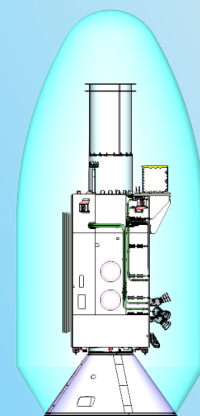
GSLV-F17

Flight Sequence



GSLV-F17 / EOS-05 Mission Specifications

Orbit	Sub-GTO
Perigee (Nominal)	170 km
Apogee (Nominal)	28934 km
Argument of Perigee	$178^{\circ} \pm 0.5^{\circ}$
Inclination	$19.28^{\circ} \pm 0.1^{\circ}$
Launch Azimuth	104°
Payload Mass	~2367 kg



Encapsulated Assembly

EOS-05

Satellite

EOS-05 is a state-of-the-art Earth observation spacecraft. It is India's first ever imaging satellite from Geosynchronous orbit.





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