



GSLV Mk III-D1

DIGI PAGE

Subject - G.A.

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- ✚ The first developmental flight (GSLV MkIII-D1) of India's heavy lift launch vehicle GSLV Mk-III was successfully conducted from Satish Dhawan Space Centre SHAR, Sriharikota with the launch of GSAT-19 satellite.
- ✚ This was the first orbital mission of GSLV MkIII which was mainly intended to evaluate the vehicle performance including that of its fully indigenous cryogenic upper stage during the flight.
- ✚ Weighing 3136 kg at lift-off, GSAT-19 is the heaviest satellite launched from the Indian soil.

Title	Launch Date	Launcher Type	Payload
GSLV Mk III-D1/ GSAT-19 Mission	Jun 05, 2017	GSLV-MK-III	GSAT-19

✚ TECHNICAL SPECIFICATIONS

✚ Payload to Geosynchronous Transfer Orbit (GTO):

- ✚ GSLV Mk III will be capable of placing the 4 tonne class satellites of the GSAT series into Geosynchronous Transfer Orbits.

✚ Payload to Low Earth Orbit (LEO):

- ✚ The powerful cryogenic stage of GSLV Mk III enables it to place heavy payloads upto 8 tonne into Low Earth Orbits of 600 km altitude.

✚ Cryogenic Upper Stage : C25

- ✚ The C25 is powered by CE-20, India's largest cryogenic engine, designed and developed by the Liquid Propulsion Systems Centre.

✚ Solid Rocket Boosters : S200

- ✚ GSLV Mk III uses two S200 solid rocket boosters to provide the huge amount of thrust required for lift off. The S200 was developed at Vikram Sarabhai Space Centre.

✚ Core Stage : L110 Liquid Stage

- ✚ The L110 liquid stage is powered by two Vikas engines designed and developed at the Liquid Propulsion Systems Centre.