

**GOVERNMENT OF INDIA
SPACE
LOK SABHA**

UNSTARRED QUESTION NO:3671
ANSWERED ON:18.03.2015
LAUNCH OF GSAT
Venugopal Dr. Ponnusamy

Will the Minister of SPACE be pleased to state:

- (a) whether India had to take assistance from abroad for the launch of GSAT-16;
- (b) if so, the details regarding recent launches by India and the expenses incurred thereon;
- (c) whether the GLSV Mark III launch also cost India more due to lack of facilities in the country;
- (d) if so, the details thereof;
- (e) whether the cryogenic engine for the upper stage for the Mark III is still being developed; and
- (f) if so, the details thereof?

Answer

MINISTER OF STATE IN THE MINISTRY OF PERSONNEL, PG & PENSIONS AND IN THE PRIME MINISTER'S OFFICE
(DR. JITENDRA SINGH)

- (a) No Madam. GSAT-16 satellite was launched from abroad through a commercial contract.
- (b) During the last 18 months, GSAT-16, a communication satellite weighing 3180 kg was launched onboard Ariane-5 launch vehicle on December 07, 2014 from Kourou, French Guinea, through a commercial launch contract. The expense incurred towards the launch is about US \$ 88.26 Million.
- (c) & (d) No Madam. Facilities required for the development and operationalisation of GSLV Mark III Launch vehicle are established in the country.
- (e) Yes Madam.
- (f) A high thrust cryogenic engine for the upper stage for the GSLV Mark III is under development. It has successfully undergone two short duration ignition trials at the ISRO Propulsion Complex, Mahendragiri and other developmental tests are in progress.