

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE**

**LOK SABHA
UNSTARRED QUESTION NO. 2661**

TO BE ANSWERED ON WEDNESDAY, AUGUST 05, 2015

OPERATIONALISATION OF GSLV MK-III

**2661. KUMARI SHOBHA KARANDLAJE:
DR. SANJAY JAISWAL:**

Will the PRIME MINISTER be pleased to state:

- (a) whether cryogenic engine of higher thrust (20 Tonne) meant for next generation of GSLV viz. GSLV-Mk-III launch vehicle is under advanced stage of development and if so, the details thereof;**
- (b) the tentative time by which production of this cryogenic engine would be a reality;**
- (c) whether it is a fact that the indigenously developed cryogenic engine will help India put satellites of upto four tonnes in geostationary orbit;**
- (d) if so, the details thereof; and**
- (e) the details of the funds allocated for this purpose in the Twelfth Five Year Plan?**

ANSWER

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

- (a) Yes, Madam. India's first indigenously designed and developed High Thrust cryogenic engine meant for next generation**

GSLV Mk-III launch vehicle is under advanced stage of development. The endurance hot test of high thrust indigenous cryogenic engine of GSLV Mk III has been successfully conducted for a duration of 800 seconds on 16th July, 2015. Further tests are planned under High Altitude conditions and stage configuration, prior to the realization of flight stage.

- (b) The developmental flights of GSLV Mk-III are targeted for completion by 2017 timeframe and the production of the cryogenic engine would commence thereafter.**
- (c) Yes, Madam.**
- (d) The indigenous cryogenic engine will be used for powering the Cryogenic stage (C25), the upper stage of GSLV Mk-III launch vehicle of ISRO, which can put satellites of up to 4 tonnes in Geosynchronous Transfer Orbit (GTO).**
- (e) An amount of ₹ 470 Crores has been allocated for the development of GSLV Mk III launch vehicle in the Twelfth Five Year Plan.**
