

**GOVERNMENT OF INDIA  
DEPARTMENT OF SPACE**

**LOK SABHA  
UNSTARRED QUESTION NO.413**

**TO BE ANSWERED ON WEDNESDAY, DECEMBER 12, 2018**

**LAUNCH OF SATELLITES BY ISRO**

**413. SHRI VENKATESH BABU T.G.:**

**Will the PRIME MINISTER be pleased to state:**

- (a) whether ISRO has launched several satellites in the last few months;**
- (b) if so, the details along with the features of each of them;**
- (c) whether the launch of Chandrayaan 2 has been postponed by ISRO again and whether it proposes to work on smaller launch vehicles;**
- (d) if so, the details thereof along with the reasons therefor and the salient features of the mission; and**
- (e) the time by which the said mission is likely to be launched?**

**ANSWER**

**MINISTER OF STATE IN THE MINISTRY OF PERSONNEL, PG &  
PENSIONS AND IN THE PRIME MINISTER'S OFFICE**

**(DR. JITENDRA SINGH):**

- (a) Yes Madam.**
- (b) The details are:**
  - CARTO-2F, IRNSS-1I, Nova-SAR, S1-4, GSAT-29, HysIS, GSAT-11 and 59 international co-passenger satellites**
    - CARTO-2F is a high resolution satellite with 0.65 M resolution - PSLV-C38.**

- **29 Co-passenger Nano-satellites (14 countries - Austria, Belgium, Chile, Czech Republic, Finland, France, Germany, Italy, Japan, Latvia, Lithuania, Slovakia, UK, USA) – PSLV-C38**
- **IRNSS-1I is a navigation satellite which is part of the NaVIC constellation - PSLV-C41**
- **Nova SAR and S1-4 (from UK for earth observation) are two foreign satellites - PSLV-C42**
- **GSAT-29 is a high throughput communication satellite - GSLV-Mk III-D2**
- **HysIS is a hyper spectral imaging satellite which provides multiple features of the image - PSLV-C43**
- **30 Co-passenger satellites (Australia-1, Canada-1, Columbia-1, Finland-1, Malasia-1, Netherlands-1, Spain-1, USA-23) - PSLV-C43**
- **GSAT-11 is India's biggest communication satellite to be part of the digital India Program providing communication in Ku / Ka band (Arian 5 VA-246)**

**(c), (d) & (e)**

**Chandrayan-2 is planned to be launched by first quarter of 2019 by GSLV MK-III. Chandrayaan-2 is the second lunar mission of India and will carry Orbiter, Lander and Rover. ISRO is working on small satellite launchers also.**

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