

**GOVERNMENT OF INDIA  
DEPARTMENT OF SPACE**

**LOK SABHA  
UNSTARRED QUESTION NO.483**

**TO BE ANSWERED ON WEDNESDAY, NOVEMBER 20, 2019**

**PROGRESS OF IRNSS**

**483. SHRIMATI KIRRON KHER:**

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

- (a) the progress made so far under Indian Regional Navigation Satellite System (IRNSS) program, in which India will have its own Positioning System;**
- (b) the steps taken by the Government to introduce this positioning system in consumer products like mobile phones; and**
- (c) the proposed timeline by which the positioning system would be introduced in consumer products?**

**ANSWER**

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

**(DR. JITENDRA SINGH):**

- (a) India's indigenous navigation satellite system termed as Navigation with Indian Constellation (NavIC) is already established by ISRO and is functional since April 2018. NavIC consists of Space Segment (constellation of seven IRNSS satellites) and Ground Segment (spread across India). The system is providing Positioning, Navigation and Timing (PNT)**

**service and one satellite (IRNSS-1A) is providing messaging service.**

**(b)&(c) Use of AIS-140 compliant NavIC-based vehicle trackers system has been made compulsory to all commercial vehicles. More than 75 companies are now manufacturing NavIC based vehicle trackers, and several thousand vehicles are now plying on the roads equipped with these devices. The updated version of new mobile models will be having NavIC based positioning systems. NavIC has been accepted by 3GPP (Third Generation Project Partnership) thereby enabling incorporation of NavIC as part of assisted GNSS. NavIC is also useful for applications like timing solution, drones, surveying, weather radiosondes, forestry, precision agriculture, etc.**

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