O.I.H.

GOVERNMENT OF INDIA
DEPARTMENT OF SPACE

LOK SABHA
UNSTARRED QUESTION NO.738

TO BE ANSWERED ON WEDNESDAY, DECEMBER 20, 2017

INDIGENOUS GPS

738. SHRI HARIOM SINGH RATHORE:

Will the PRIME MINISTER be pleased to state:

(a) whether the work is going on to develop indigenous Global Positioning System (GPS) in the country;

(b) if so, the details thereof;

(c) the manner in which the indigenous GPS will be beneficial;

(d) the number of GPS on which work is going on at private and Government level Separately at present in the country; and

(e) whether the Government is likely to discontinue external GPS after indigenous GPS is fully developed and 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) Yes, Madam.

(b) India has deployed its own regional navigational system, namely NavIC comprising of a constellation of seven navigational satellites and associated ground segment for providing position, navigation and timing services to Indian region.

(c) **The IRNSS (NavIC) enables providing position, navigation and timing information that could be utilised for a large range of civil and strategic applications and services that include terrestrial, aerial and marine navigation; precise timing; disaster management and alert messages; mapping and Geodetic data capture; vehicle tracking and fleet management; visual & voice navigation for drivers, etc.**

(d) **Seven satellites of NavIC constellation is currently in orbit, the realization of IRNSS-1I, by DOS/ISRO is under progress using a contract to a consortium of private companies for carrying out assembly, integration and testing of this satellite. The satellite is planned for launch during first quarter of 2018.**

(e) **NavIC provides signals in a space covering India and its surroundings, this could be utilised by using receivers on ground to determine position and time accurately. Signal in space is provided globally by GPS of USA, GLONASS of Russia, Galileo of Europe and Beiden of China. Current global trend is to make use of ground receivers which utilises as many signals as available for providing timing and position solutions.**

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