

**GOVERNMENT OF INDIA  
DEPARTMENT OF SPACE**

**LOK SABHA  
UNSTARRED QUESTION NO.2013**

**TO BE ANSWERED ON WEDNESDAY, JULY 03, 2019**

**SPACE STATION**

**2013. SHRI SYED IMTIAZ JALEEL:**

**SHRIMATI POONAMBEN MAADAM:**

**SHRI ASADUDDIN OWAISI:**

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

- (a) the details of countries which have their own space station at present;**
- (b) whether the Government proposes to set up its own space station within next seven years and if so, the details thereof;**
- (c) the budget estimates for this purpose and whether the same has been approved by the Government;**
- (d) whether any collaboration with foreign countries is proposed for this purpose and if so, the details thereof;**
- (e) the details of benefits likely to be derived from the said space station;**
- (f) whether this project will be an extension of the 'Gaganyaan' programme and if so, the details thereof; and**
- (g) the extent to which 'Make in India' initiative is likely to contribute to this project?**

**ANSWER**

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

**(DR. JITENDRA SINGH):**

- (a) Currently, the operational Space station is International Space Station (ISS) orbiting at an altitude of 400 km. ISS is operated by five space agencies and they are NASA (United States), Roscosmos (Russia), CSA (Canada), JAXA (Japan) and ESA (Belgium, Denmark, France, Germany, Italy, Netherlands, Norway, Spain, Sweden, Switzerland and United Kingdom).**
- (b) Space station is an integral element of human spaceflight programme as they allow sustained human presence in space to carry out meaningful research. India's plan of space station is a long term plan after successful operationalization of Gaganyaan.**
- (c) The program is at a very nascent stage.**
- (d) Foreign collaborations are not yet finalised.**
- (e) The space station will provide a research platform that cannot be matched on earth. The expected benefits are likely in the areas of human health, telemedicine, vaccine development, material development, disaster relief, efficient farming techniques, food and water conservation, waste management techniques, environmental research and education programmes that inspire the youth.**

- (f) Yes Sir, Space Station is an extension of Gaganyaan program. Technologies like Human rated version of GSLV Mk-III, orbital module to ferry crew, life support system etc, developed for Gaganyaan will be used for space station program. The space station design will be modular with initial modules weighing approximately 20 tons and will have provision for extended stay for 3 crew members.**
- (g) As in Gaganyaan programme where more than 650 industries are participating to realize the flight and ground systems, “Make in India” initiative will be a major driver for the success of space station programme in realization of materials, avionics, fabrication, testing as well as integration of flight systems.**

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