

GOVERNMENT OF INDIA
DEPARTMENT OF SPACE

RAJYA SABHA
UNSTARRED QUESTION NO. 1732

TO BE ANSWERED ON THURSDAY, DECEMBER 27, 2018

OPPORTUNITY IN INDIAN SPACE MARKET

1732. SHRI T. RATHINAVEL:

Will the PRIME MINISTER be pleased to state:

- (a) whether it is a fact that the Indian space market offers big opportunity to industry as it is estimated to grow to US \$ 1.6 billion by 2023;
- (b) whether it is also a fact that domestic industry needs to increase the production of critical electronic items needed in space and other programmes, as 75 percent of it is now imported; and
- (c) 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, Indian Space research programme has unprecedented growth in the last few years with highly successful and commercial missions accomplished. There are a large number of approved missions in waiting for ISRO to accomplish, which indicates a big opportunity for the industry as well.
- (b) Yes, it is a fact that domestic industry should come forward and increase the production of critical electronic components for space and other research programmes, a majority of which is currently imported.
- (c) With respect to Space programmes, the import component for electronics in the launch vehicle area is mainly in stage avionics, which is around 10%. However, in the area of satellite building, the percentage of electronics import is as high as around 50%. Import substitution and indigenised manufacturing efforts are required in the areas of amplifiers (Travelling Tube Wave Amplifiers, Solid State Pre-Amplifier etc.), Image Sensors and Optical Equipments, FPGA, Crystal Oscillators, Memory devices, RF

Devices and equipments, Microwave devices and equipments, Semi-conductor components (Resistors, capacitors, Inductors, Diodes etc.), PCBs and ICs, Filters, Waveguides, Solar cells, Signal generators and conditioners, Power supplies, Convertors and isolators, Frequency synthesizers, etc.
