

GOVERNMENT OF INDIA
DEPARTMENT OF SPACE

RAJYA SABHA

UNSTARRED QUESTION NO. 932

TO BE ANSWERED ON THURSDAY, FEBRUARY 09, 2023

START-UPS IN THE DEVELOPMENT OF SPACE TECHNOLOGY

932. SHRI JUGALSINH LOKHANDWALA:

Will the PRIME MINISTER be pleased to state:

- (a) Whether it is a fact that there is an increasing participation from the private sector and start-ups in the development of Space technology;
- (b) The details of the Start-ups which have been supported by the Department during the last three years; and
- (c) The steps that have been taken by the Department to decrease the import dependence on critical space technology components?

ANSWER

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

(DR. JITENDRA SINGH):

- (a) Yes, Sir.
- (b) Applications from 135 Non-Government Entities (NGEs) are received so far and being supported by IN-SPACE in the areas of Satellites, Launch Vehicles, Ground Segment, Space Applications, Space Promotional Activities, etc. These NGEs include Start-ups (65), Micro, Small & Medium Enterprises (15), Academia (19) and Industries (36).
- (c) The following steps have been taken by Department to decrease import dependence on critical space technology components:
 - (i) Department is pursuing development of critical technologies such as Travelling Wave Tube Amplifiers (TWTA), Atomic Clock, Electronics

packaging technology, Sensors and ASICs (Application Specific Integrated Circuits).

- (ii) Space grade Lithium-ion battery has been successfully developed and commercialized.
- (iii) Action has been initiated along with HAL, NAL and Midhani for establishing Carbon Fiber production plant in India.
- (iv) The imported items are published in the Procurement Live Register(PLR) portal of ISRO website to invite Expression of Interest (EoI) from Indian Industries for indigenous development.
