

GOVERNMENT OF INDIA  
MINISTRY OF DEFENCE  
DEPARTMENT OF DEFENCE PRODUCTION  
**LOK SABHA**  
**UNSTARRED QUESTION NO.3738**  
TO BE ANSWERED ON 11<sup>th</sup> December, 2019

**STARTUPS IN DEFENCE**

3738. DR. SHASHI THAROOR:

Will the Minister of DEFENCE be pleased to state:

- (a) whether Department of Defence Production deals with matters such as defence production and indigenization of imported equipments;
- (b) if so, whether the Government is allowing startups to enter defence ecosystem;
- (c) if so, the details thereof and the challenges before Defence India Startups;
- (d) whether electronic hardware incubator, the Maker Village from Kerala, has sought an offer for establishment of defence production units in its space; and
- (e) if so, the details thereof and the response of the Government thereto?

**A N S W E R**

MINISTER OF STATE  
IN THE MINISTRY OF DEFENCE

रक्षा राज्य मंत्री

(SHRI SHRIPAD NAIK)

(श्री श्रीपाद नाईक)

(a) to (e): A statement is attached.

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**STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (e) OF LOK SABHA UNSTARRED QUESTION NO. 3738 FOR ANSWER ON 11.12.2019 REGARDING 'STARTUPS IN DEFENCE'.**

(a) : Yes, Sir.

(b) and (c) :

I. Innovations for Defence Excellence (iDEX) framework, was launched with the aim to achieve self-reliance and to foster innovation and technology development in Defence and Aerospace Sector by engaging Industries including MSMEs, start-ups, individual innovators, R&D institutes and academia. Initially, 15 problem statements were launched. 44 iDEX winners have so far been identified for 14 problem statements. 3 new problem statements have been launched recently to expand the network.

II. Furthermore, DRDO has launched a program termed as “Technology Development Fund (TDF)” for meeting the requirements of Tri-Services, Defence Production and DRDO. The scheme has been established to promote self-reliance in Defence Technology as part of the '**Make in India**' initiative by encouraging participation of public/private industries **especially MSMEs.**

III. Further, ‘Make-II’ procedure has been simplified to encourage wider participation of Indian industry, with impetus for MSME/Start-ups and timely induction of equipment into Indian Armed Forces. The ‘Start-ups’ recognized by Department for Promotion of Industry and Internal Trade (DPIIT), are eligible to participate under ‘Make-II’ procedure. In addition, the framework for implementation of ‘Make II’ at OFB and DPSU level has also been notified.

**The Challenges given so far under iDEX are enclosed at Annexure.**

(d) & (e): Maker Village, Kochi is now a Partner Incubator in the iDEX program.

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**ANNEXURE REFERRED TO IN REPLY TO PARTS (b) & (c) OF LOK SABHA UNSTARRED QUESTION NO. 3738 FOR ANSWER ON 11.12.2019 REGARDING 'STARTUPS IN DEFENCE'.**

**DISC I**

- i. Individual Protection System with in-built sensors
- ii. See Through Armour
- iii. Carbon Fibre Winding (CFW)
- iv. Active Protection System (APS)
- v. Secure hardware based offline Encryptor Device for Graded Security
- vi. Development of 4G/LTE based Tactical Local Area Network
- vii. Development of Advanced Technology Based Desalination System (Water Purification) and Bilge Oily Water Separation System
- viii. Artificial Intelligence in Logistics & Supply Chain Management (SCM)
- ix. Remotely Piloted Airborne Vehicles
- x. Laser Weaponry (No winner identified)
- xi. Unmanned Surface and Underwater Vehicles

**DISC II**

- i. GPS Anti Jam Device
- ii. Data Analytics for Air Trajectory
- iii. Illegal usage of Drones
- iv. RADAR - IQ Signal Generator

**DISC III**

- i. Four-axis stabilized antennae for C & KU band operation
- ii. To create a Portable Spoof Emitter for surveillance and ground-based air defence weapons
- iii. Friend or Foe Identification System

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