

GOVERNMENT OF INDIA
MINISTRY OF DEFENCE
DEFENCE RESEARCH & DEVELOPMENT ORGANISATION
LOK SABHA
UNSTARRED QUESTION NO. 732
TO BE ANSWERED ON 29th November, 2024

TECHNOLOGY DEVELOPMENT FUND SCHEME

732. SHRI RAJESH VERMA:
DR. SHRIKANT EKNATH SHINDE:
SMT. SHAMBHAVI:
SHRI NARESH GANPAT MHASKE:

Will the Minister of DEFENCE be pleased to state:

- (a) the total funds allocated, disbursed and utilized under the Technology Development Fund Scheme (TDFS) since January 2023;
- (b) the total number of the Micro, Small and Medium Enterprises (MSMEs) and Start-ups supported by the Government to design and develop various defence technologies indigenously under the said scheme since January 2022;
- (c) the details of financial assistance provided by the Government to the said MSMEs and Start-ups during the last 5 years, MSMEs/Start-ups-wise;
- (d) whether the Government has details of the technologies developed under the TDFS as on date; and
- (e) if so, the details thereof?

A N S W E R

MINISTER OF STATE
IN THE MINISTRY OF DEFENCE

(SHRI SANJAY SETH)

- (a) & (b): Yes, Sir. Since January, 2023 a total sum of Rs. 120 Cr. has been allocated and Rs. 43.89 Cr. has been disbursed as grant-in-aid to the industries under the TDF Scheme and 16 MSMEs and 20 Startups have been supported under the TDF Scheme since January, 2022.
- (c): During the last Five years, 42 projects of cost Rs. 182.41 Cr. to MSMEs and 25 projects of cost Rs. 59.47 Cr. to Startups have been sanctioned under the TDF scheme.
- (d) & (e): Yes, Sir. As of now, 26 technologies have been successfully developed. The details of the technologies successfully developed are attached as Annexure.

ANNEXURE REFERRED TO IN REPLY TO PARTS (d) & (e) OF LOK SABHA UNSTARRED QUESTION NO. 732 TO BE ANSWERED ON 29.11.2024 REGARDING “TECHNOLOGY DEVELOPMENT FUND SCHEME”.

Sl. No.	Successfully developed Technologies
1.	AVPSM, ARINC 818 for an Advance Military Aircraft
2.	SMFD (Smart Multi-Functional Display) for an advance Military Aircraft
3.	40TPH Pump (Submersible for watering & dewatering) for Indian Naval Ship
4.	125 TPH Pump (Recirculation Pump) for Indian Naval Ship
5.	Pru Decorp 340mg capsule for decontamination CS/TL from body during Nuclear Emergency
6.	Pru Decorp Mg 500mg capsule for decontamination CS/TL from body during Nuclear Emergency
7.	Development of Health Usage and Monitoring System (HUMS) for MIG 29K
8.	Development of WT/GT (Water Tight/Gas Tight) EMI/EMC compliant doors for Naval pltfoms
9.	Development of WT/GT (Water Tight/Gas Tight) EMI/EMC compliant Hatches for Naval platforms
10.	V/UHF Blade Antenna for Aircraft Application
11.	Development of Temperature Transducer for Aircraft Application
12.	Propellant & Thruster for Low Orbit Satellite using Ethanol & Hydrogen peroxide propellant system
13.	Propellant & Thruster for Low Orbit Satellite using non toxic Hydrazine Nano propellant system
14.	VLF Loop Aerial system for U/W platform
15.	VLF-HF Matrix for U/W Platform
16.	AI based detection of a person based on physiological parameters
17.	Software to predict sensor reading within Noncontact strain measurement
18.	Software for virtual sensor implementation in AGTE for strain measurement
19.	Virtual sensor for compressor & turbine tip measurement in AGTE
20.	Development JT cryocooler for missile application
21.	Multi therapeutic technologies seeking for faster healing
22.	Development of Simulator for Unmanned Ground, Marine (Sea-surface and Underwater) and Aerial Vehicles
23.	Development of Tools for Data Assessment Active learning & Believability for Visual Data
24.	Autonomous Drone as first responder for search & report mission in enclosed/indoor environment
25.	Surge relief valve for F1F2, F1A tank, wing tank
26.	AC double ended fuel booster pump for aircraft application
