

GOVERNMENT OF INDIA
MINISTRY OF DEFENCE
DEFENCE RESEARCH & DEVELOPMENT ORGANISATION
RAJYA SABHA
UNSTARRED QUESTION NO.2899
TO BE ANSWERED ON 22nd March, 2021

NEW INVENTIONS BY DRDO

2899 SHRI HARNATH SINGH YADAV:

SHRI VIJAY PAL SINGH TOMAR:

Will the Minister of DEFENCE be pleased to state:

- (a) the details of new inventions made by Defence Research and Development Organisation (DRDO) in defence equipment and security of the country during the last three years and the time by when benefits thereof would be available to defence personnel;
- (b) whether the State police are getting the benefits of any of new techniques developed by DRDO;
- (c) whether new techniques have been developed in some existing equipment by DRDO to boost security of the country; and
- (d) if so, the details thereof?

ANSWER
MINISTER OF STATE IN THE MINISTRY OF DEFENCE
SHRI SHRIPAD NAIK

(a) During the past 3 years, 79 projects amounting to Rs.8201 Crores directly pertaining to development of new defence equipments i.e. Cruise Missile, Anti-Ship Missile, Surface-to-Air Missile, Air-to-Air Missile, Extended Range Anti-Submarine Rocket, Mounted Gun System, Ammunitions, Electronic Warfare System, Radars, Torpedoes, High Endurance Autonomous Underwater Vehicle etc. have been undertaken. Some of the DRDO developed systems which are likely to be available to our defence personnel during 2021-23 are as follow:

| Sl. No. | System | Timelines |
|---------|-------------------|-----------|
| 1. | ASTRA Missile | 2021 |
| 2. | Anti Drone System | 2021 |
| 3. | SATCOM Devices | 2021 |

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| 4. | QRSAM | 2022 |
| 5. | ADFCR | 2022 |
| 6. | Helina | 2022 |
| 7. | ADTCR | 2022 |
| 8. | Guided Bomb | 2022 |
| 9. | NAG | 2022 |
| 10. | NGARM | 2023 |
| 11. | SAAW | 2023 |

(b) Yes, Sir. Many DRDO developed technologies such as Battle Field Surveillance Rader (BFSR), Joint Venture Protective Carbine (JVPC) Jammers, 5.56 mm Rifle, 40 mm Under Barrel Grenade Launcher (UBRL), Oleo Resin (OR) Grenade etc are being utilized by the State Police.

(c) & (d): Yes, Sir. Upgrades to some of the systems have been developed by DRDO. Details of the same are as follow:-

(i) Arjun Mk-1A

(ii) Akash-NG

(iii) Light Combat Aircraft Mk-1A

(iv) Medium Power Radar-Extended Range

(v) PINAKA- Extended Range, Guided

(vi) Electronics & Communication System: Unified Mission Computer for SU-30 MKI aircraft, Internal EW System for MIG-29 Upgrade Aircraft, EW systems for Naval platforms.
