

DRDO at Eurosatory-2024: International Land, Air Defence and Security Exhibition in Paris, France

Defence Research and Development Organisation (DRDO), the R&D wing of the Ministry of Defence, Government of India is participating in EUROSATORY-2024, a global event for Defence & Security professionals being held during 17-21 June 2024 at Paris-Nord Villepinte Exhibition Centre, Paris, France. DRDO is primarily engaged in design and development of numerous state-of-the-art systems and technologies for realising the goals of 'Make in India and Make for the World' like Missiles and missile-based Air Defence System, Light Combat Aircraft, Main Battle Tank, Gun Systems, UAVs and Counter UAVs, Multi-barrel Rocket Launcher, Radars, Naval Systems and Life Science related products.

Many indigenously developed DRDO systems have been inducted into the Indian Armed Forces, after extensive field evaluation. These DRDO systems attain benchmark of international standards and, therefore, created an interest among several nations and some of these systems have been exported too. DRDO along with Indian industry is capable to produce quality defence systems for export, which would help in establishing and nurturing long term relationships with friendly countries as well as strengthening their Defence Forces and Homeland Security.

DRDO is going to showcase the models/translit of following flagship products at this prestigious defence show.

- 1) **AEW&C**- Airborne Early Warning & Control System (AEW&C), AEW&C is a potent force multiplier, with surveillance, communication, and electronic warfare capabilities. It is a system of systems for detecting & tracking of enemy/hostile aircrafts/ UAVs etc.
- 2) **LCA Mk1A** - The LCA Tejas Mk1A is the most advanced variant of the indigenously developed Light Combat Aircraft (LCA) Tejas by India's DRDO. This single-engine, multirole fighter jet boasts of significant improvements over the Mk1 version. It features an Active Electronically Scanned Array (AESA) radar for enhanced detection and tracking capabilities, an improved electronic warfare suite for better battlefield awareness and advanced air-to-air refuelling capabilities, extending its operational range.
- 3) **ROV Daksh** - The Remotely Operated Vehicle (ROV) Daksh is a versatile equipment for improvised explosive device detection identification and handling. This ROV can also be utilised to survey and monitor nuclear and chemical contamination levels. It has stair climbing capabilities and can operate seamlessly for 3 hours.

- 4) **Arjun MBT Mk-1A** - Arjun Main Battle Tank Mk IA, developed indigenously by DRDO has enhanced India's self-reliance in Armoured Fighting Vehicles. It is a dependable war machine built with modern battle tank technologies.
- 5) **Pinaka** - Pinaka multi-barrel rocket system (MBRS) comprises of a free-flight artillery rocket having a maximum range of 38 km with different types of warhead & fuzes, a multi-tube launcher vehicle, a replenishment-cum-loader vehicle, a replenishment vehicle and a command post vehicle.
- 6) **WhaP**- Wheeled Armoured Platform (WhAP) is a game-changer for the Indian Armed Forces, offering a versatile and highly mobile platform for various land-based operations. This 8x8 wheeled vehicle weighing between 19 to 27 tonnes boasts of modular armour design for mission-specific protection.
- 7) **Varunastra** - Varunastra is a ship launched, heavy weight, electrically-propelled anti-submarine torpedo capable of targeting quiet submarines, both in deep and shallow waters in an intense countermeasures environment.
- 8) **LFDS-X** - Low Frequency Dunking Sonar (LFDS) is an airborne sonar system which can be deployed from rotary wing platforms for effectively acting as force multiplier for naval ships. The development of an airborne winch for deployment and retrieval of dome is a significant technology leap in this sonar system. It enables the deployment of sensors to higher depths for detection of deep dived submarines, thereby substantially enhancing performance. LFDS is capable of both active as well as passive sonar operations.
- 9) **Astra**: A Beyond Visual Range (BVR) class of Air-to-Air Missile (AAM) system with a 100km range and a Mach 4.5 speed, the Astra is designed to be mounted on fighter aircraft to engage and destroy highly manoeuvring supersonic aircraft. The missile has all weather day and night capability. The missile is being developed in multiple variants to meet specific requirements. The ASTRA Mk-I Weapon System integrated with SU-30 Mk-I aircraft is being inducted into the Indian Air Force (IAF).
- 10) **Helina**-HELINA (Helicopter based NAG) is a third-generation fire and forget class anti-tank guided missile (ATGM) system mounted on the Advanced Light Helicopter (ALH). The system has all weather day and night capability and can defeat battle tanks with conventional armour as well as explosive reactive armour.
- 11) **AKASH** is a Short Range Surface to Air Missile system to protect vulnerable areas and vulnerable points from air attacks. AKASH Weapon System can simultaneously engage Multiple Targets in Group Mode or Autonomous Mode. It has built in Electronic Counter-Counter Measures (ECCM) features.

DRDO's participation in EUROSATORY-2024 is a golden opportunity for the visitors to see 'Made in India' products, technologies and systems. Dr. Samir V Kamat, Secretary, Department of Defence R&D and

Chairman DRDO wishes grand success to this mega event in continuing the legacy of Indo- French defence relations, opening new arenas for future collaborations and finding new markets for DRDO products.